



SABANCI UNIVERSITY

# RESEARCHERS CATALOGUE 2015

FACULTY OF ARTS AND SOCIAL SCIENCES

FACULTY OF ENGINEERING AND NATURAL SCIENCES

SCHOOL OF MANAGEMENT

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# CONTENTS

## ART AND SOCIAL SCIENCES

CONFLICT ANALYSIS AND RESOLUTION	I
CULTURAL STUDIES	8
ECONOMICS	17
EUROPEAN STUDIES	29
HISTORY	37
INTERNATIONAL RELATIONS	40
POLITICAL SCIENCE	46
PSYCHOLOGY	56
PUBLIC POLICY	58
TURKISH STUDIES	64
VISUAL ARTS & COMMUNICATION DESIGN	67

## ENGINEERING AND NATURAL SCIENCES

COMPUTER SCIENCE AND ENGINEERING	77
ELECTRONICS ENGINEERING	83
MANUFACTURING SYSTEMS AND INDUSTRIAL ENGINEERING	94
MATERIALS SCIENCE AND NANO ENGINEERING	104
MATHEMATICS	115
MECHATRONICS ENGINEERING	119
MOLECULAR BIOLOGY, GENETICS AND BIOENGINEERING	126
PHYSICS	137

## SCHOOL OF MANAGEMENT

ACCOUNTING & FINANCE	144
MANAGEMENT & STRATEGY	149
ORGANIZATION	152
MARKETING	154
OPERATIONS & INFORMATION SYSTEMS MANAGEMENT	160

## IICEC

ISTANBUL INTERNATIONAL CENTER FOR ENERGY AND CLIMATE	166
--	-----

## IPC

ISTANBUL POLICY CENTER	188
------------------------	-----

## SUNUM

NANOTECHNOLOGY RESEARCH AND APPLICATION CENTER	204
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FACULTY OF ARTS AND SOCIAL SCIENCES

## CONFLICT ANALYSIS AND RESOLUTION

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Research Area Keywords	<i>Political Anthropology; Nationalism; Militarism; Peace Education; Gender and Sexuality.</i>
Current Research Activities	<i>Altınay's Current Research and Writing Focus on Gender-Based Violence and The Feminist Struggle Against It; Representations of Political Violence and Trauma; Political and Social Processes of Militarization and Efforts at De-Militarization; Manifestations of Militarism In Textbooks and Education; and Post-Nationalist Imaginaries. Her Co-Author Book With Yeşimarat, Türkiye'dekadınayönelişiddet(Violence Against Women in Turkey) Was Awarded The 2008 Pen Duyguasena Award.</i>

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Research Area Keywords	<i>Religion and Politics, Religious Parties, Secularism, Comparative-Historical Sociology, Sociology of Religion, Political Sociology, Social Theory.</i>
Current Research Activities	<i>Ateş Altınordu's Work Focuses on Religionand Politics, Particularly on Religious Parties and Secularistmovements. He Received His Ph.d. Degree From The Sociology Departmentat Yaleuniversity in May 2010. His Dissertation, Titled ""Religiouspolitics: Political Catholicism and Political Islam in Comparativeperspective", Has Won The Marvin B. Sussman Dissertation Prize in 2011. Altınordu Has Recently Received A Jean Monnet Teaching Module Grant From The European Commission For His Proposal on "Religion Andeuropean Integration". Altınordu's Recent Publications Include "Aftersecularization?" (With Philip S. Gorski), Annual Review of Sociology(2008) and "The Politicization of Religion: Political Catholicism and political Islam in Comparative Perspective" Politics and Society(2010). He Is Currently Completing An Article Manuscript on Thepolitical Incorporation of Anti-System Religious Parties.</i>

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Research Area Keywords	<i>Turkish Foreign Policy, Middle East, Arab Spring, Arab Authoritarianism, Caucasus and Central Asia, Geopolitics, Peacebuilding, Mediation and Conflict Resolution.</i>
Current Research Activities	<p>1- A Multi-Year Project Entitled <i>Project on Middle East and Arab Spring (Pomeas)</i> Funded by Diplomatic Academy of Qatar (2014-2016).  - Project Aims To Promote Scholarly Debate On The Challenges and Opportunities in Post-Arab Spring Environment in The Middle East and North Africa.  - POMEASE Hosts High Quality Academic Pieces and Policy Briefs At Its Web Site, Available At <i>Pomeas.org</i></p> <p>2- 18 Months Long Project on <i>Civilian Capacity in Turkey's Peace-Building</i> Funded by Turkish Cooperation and Coordination Agency (TIKA) (2014-2016)  - Project Will Bring Turkish and International Experts and Active Ngos Together To Combine Knowledge and Expertise in The Specifics of Civilian Dimension of Peacebuilding.  - There Will Be Field Research in 8 Countries To Discover Turkish Ngo Activities in Health, Emergency Relief, Health and Poverty Reduction.</p> <p>3- 10 Months Long Project on <i>Turkey's Peacebuilding</i> Funded by Turkish Ministry of Foreign Affairs (2013-2014).  - A Product of The Research "<i>The Role of Humanitarian Ngos in Turkey's Peacebuilding</i>" (Co-Authored With Pinar Akpınar) Was Submitted To <i>Peacekeeping (Ssci Journal)</i> and Is Under Review</p> <p>4- A Multi-Year Project To Establish An Asia Studies At Istanbul Policy Center Is in Preparation.</p>

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Research Area Keywords	<i>Ethnicity and Ethnic Conflict; Civil Society and NGOs; Forced Migration; Culture and Conflict Resolution; Role of Organizations in Conflict Resolution.</i>
Current Research Activities	<i>Ayşe Betül Çelik's Research Interests Focus Around Ethnicity, Migration and Cultural Elements in Conflict and Conflict Resolution. Recently, She Is Involved in Projects, Which Study Possible Reconciliation Attempts In Kurdish Question; Indigenous Conflict Resolution Methods in Blood Feuds, and Honor Killings in Southeastern Anatolia; and Intercultural Negotiation. She Is A Member of The Intercultural Negotiation Project Led By The University of Maryland, Where A Computer-Based Mediator Will Analyze The Negotiation Style Differences Between The Turkish and American Students. She Is Also Working on A Research Which Analyzes The Different Roles Played By The Ngos and State Actors in Addressing The Problems of The Internally Displaced Kurds. She Is Also Interested in Studying The Differences Among Turkish Political Parties in Their Understanding of Gender Policies.</i>

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Research Area Keywords	<i>Comparative Foreign Policy; International Conflict; Economic Sanctions; Foreign Aid.</i>
Current Research Activities	<i>Emre Hatipoğlu's Research Employs Quantitative and Formal Methods To Examine The Intersection of Domestic and Interstate Politics. His Expertise Covers Issues Relating To Economic Sanctions, Foreign Aid, U.s. Foreign Policy and International Conflict. Dr. Hatipoğlu Has Also Worked Extensively in The Militarized Interstate Disputes Dataset Project Under The Correlates of War Program. He Has Presented Papers on U.s. Congress and Economic Sanctions, Automated Data Collection Issues In International Conflict Research, The Application of "Two-Good Theory of Foreign Policy" To Turkey, and Co-Authored A Forthcoming Article on The State of Quantitative International Conflict Studies At Terrorism and Political Violence. He Is Also Working on A Project That Gauges The Effect of Foreign Aid on Economic and Political Development.</i>

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Current Research Activities	<i>Fuat Keyman's Actively Involved in Research on Globalization Processes and Their Impact S on Turkey, Particularly Its Democratization, Its Socio-Economic Transformation, As Well As Its Foreign Policy. In Doing So, He Has Produced Work on Turkey-Eu Relations, Turkey'd Transformation, and Turkish Foreign Policy, and Turkey's Accession Process.he Authored Many Books and Articles on These Topics, The Most Recent of Which Are: Symbiotic Antagonisms: Competing Nationalisms in Turkey (Utah University Press); Turkey's Transformation and Democratic Consolidation (Palgrave Macmillan); Cities: Urban Transformation in Turkey (Doğankıtap). He Has Finished The Framework 7 European Project: Enacting European Citizenship, and Carrying on A Tubitak Research on Urban Transformation in Turkey: İzmir, Kayseri, Diyarbakır, and Trabzon.</i>

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Research Area Keywords	<i>Civil Conflict, Linkage Politics, Quantitative Methods, Game Theory.</i>
Current Research Activities	<i>Arzu Kibris's research Interests Focuses on The Dynamics and Socio-Political Effects of Civil Conflicts, and The Linkages Between Domestic and Foreign Policy. She Mostly Conducts Empirical Work, But Also Employs Game Theoretical Tools in Her Analyses. Her Current Projects Are About The Impact of Pkk's Terrorist Campaign on Voting Behavior and on Educational Sector in Turkey. She Is Also Working on A Game Theoretical Model of Ethnic Civil Conflicts Project Aimed At Understanding The Interplay Between Public Opinion and The Long Duration of These Conflicts.</i>

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Research Area Keywords	<i>Oral History; Cultural Identity; Minorities and Nationalism; Memory; Subjectivity; Middle Eastern Ethnography and Social History.</i>
Current Research Activities	<i>Leyla Neyzi Is Currently Working on A Series of Articles Based on The Data Collected During Two Consecutive Research Projects She Conducted in 2009-2012 and 2012-2013. One Article Is Forthcoming in New Perspectives on Turkey, and Three Other Articles Are Planned To Be Submitted To Indexed Journals in 2014.</i>

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Research Area Keywords	<i>New Media; Digital Culture; Virtual Reality Environments; Contemporary History of Art and Curatorial Studies.</i>
Current Research Activities	<i>His Current Research Focuses on The Cultural Relationship Between Online Actions and Behaviors, Intervention in Public Spaces and New Media Platforms, and Issues Related To Transmediation and Remediation of Content Across Different Platforms in Different Cultures. In Particular in The Field of Museum Studies He Is Interested in The Contextualization of New Media Artworks in Relation To Technological, Historical, Conceptual and Cultural Frameworks. He Is Currently Analyzing A Series of Issues of Transculturalism and Interculturalism in Contemporary Art in The Processes of Representation of Identity.</i>

HÜLYA ADAK (FACULTY MEMBER)	
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Research Area Keywords	<i>Literary Theory; Nationalism; Gender and Sexuality; Theories of Autobiography; British, French and Turkish Novel; Modern Drama.</i>
Current Research Activities	<i>In Collaboration With A Group of Colleagues From Dukeuniversity, University of Texas-Austin, Northwesternuniversity, She Received A Grant From The British Arts and Humanities Research Council To Conduct The Project "Women's Autobiographies in Islamic Societies." As Part of This Three-Year Long Project That Terminates in 2012, She Would Like To Finish A Book on The Work Of Halide Edibadivar. In The Summer of 2010, She Would Like To Finish The Book on National Myths Of Turkey Analyzing Political Memoirs. The Special Dossier of New Perspectives on Turkey (Ssci) on "Gender and Ethnicity" For Which She Is The Guest Editor Will Be Published in May 2010. The Anthology I Prepared With Prof. Erika Glassen (Freiburguniversity) Modernetürkischegeschichte Explores Key Social and Cultural Events of The Twentieth Century Through A Series of Heretofore-Dismissed, Yet Quite Significant Auto/Biographical Sources. The German Version Will Be Published in The Summer of 2010. Erika Glassen and Hülya Adak Would Like To Expand The Anthology and Publish It in Turkish in Turkey. The Book İsteböylegüzelim... Based on Interviews With Women From Turkey and Germany on Sexuality Was Published in 2008, The German Translation So Ist Das, Meineschöne... Was Published By Orlandafrauenverlag in 2009. The Long-Term Goals of The Project Consist of Preparing A Second Book Including Our Current Interviews on Sexuality, and Publishing An Edited Volume (An Academic Book) on "Feminism, Sexuality and Theater" in Turkey. Her Long-Term Research Goals Include Working on How World War I and The Armenian Catastrophe Were Represented in Turkish Fictional and Auto/Biographical Narratives.</i>

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Research Area Keywords	<i>Political Anthropology; Nationalism; Militarism; Peace Education; Gender and Sexuality.</i>
Current Research Activities	<i>Altınay's Current Research and Writing Focus on Gender-Based Violence and The Feminist Struggle Against It; Representations of Political Violence and Trauma; Political and Social Processes of Militarization and Efforts At De-Militarization; Manifestations of Militarism in Textbooks and Education; and Post-Nationalist Imaginaries. Her Co-Author Book With Yeşimarat, Türkiye'de Kadına Yönelik Şiddet (Violence Against Women in Turkey) Was Awarded The 2008 Pen Duyguasena Award.</i>

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Research Area Keywords	<i>Religion and Politics, Religious Parties, Secularism, Comparative-Historical Sociology, Sociology of Religion, Political Sociology, Social Theory.</i>
Current Research Activities	<i>Ateş Altınordu's Work Focuses on Religion and Politics, Particularly on Religious Parties and Secularist movements. He Received His Ph.d. Degree From The Sociology Department at Yale University in May 2010. His Dissertation, Titled "Religious politics: Political Catholicism and Political Islam in Comparative perspective", Has Won The Marvin B. Sussman Dissertation Prize in 2011. Altınordu Has Recently Received A Jean Monnet Teaching Module Grant From The European Commission For His Proposal on "Religion And European Integration". Altınordu's Recent Publications Include "Aftersecularization?" ( With Philip S. Gorski), Annual Review of Sociology(2008) and "The Politicization of Religion: Political Catholicism and political Islam in Comparative Perspective" Politics and Society(2010). He Is Currently Completing An Article Manuscript on The political Incorporation of Anti-System Religious Parties.</i>

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Research Area Keywords	<i>Philosophy of Science; Philosophy of Social Sciences; Causation; Social and Political Philosophy; Science Education.</i>
Current Research Activities	<p><i>1. Science, Its Commercialization and Democracy: There Is Growing Concern That Certain Segments of Academic Science Are Being Rapidly Commercialized in Usa in The Last Three Decades and That Other Countries Are Following Suit. In Several Recent Papers I Have Examined This Phenomenon From A Polanyian Theoretical Perspective and Argued Why Philosophers of Science Should Pay Attention To It. I Am Now Working on How Democratizing Social Policy May Contribute To The De-Commercialization of Science.</i></p> <p><i>2. Philosophy of Science in The 20Th Century: My Work in This Area Focuses on The History of Philosophy of Science in The 20<sup>Th</sup> Century. I Am A Team Member of An Esf-Sponsored Research Network Program Called "The Philosophy of Science in A European Perspective". This Is A Five-Year Program That Took Off in 2008.</i></p> <p><i>3. Towards A Political Philosophy of Science: This Is A Longer Term Project Whose Goal Is To I Examine The Ways in Which, and The Reasons Why, Philosophy of Science Has Been Politicised in The First Half Of The 20<sup>Th</sup> Century, And Then De-Politicised After The Wwii Until The 80'S After Which We Again Witness A Re-Politicisation, But in A Radically Different Way. This Project Is Informed By My Research Described in (2) Above.</i></p>

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Research Area Keywords	<i>Literary Theory; 20th Century British, American and Turkish Novel; Narrative Theory; Postcolonial Studies; Literature and Politics.</i>
Current Research Activities	<p><i>My Main Current Research Area Is Politics and The Novel in Turkish Literature. I Am Working on Coup D'etat Novels, Especially Those Concerning The 1980 Coup, and The Representation of Politics As Well As The Relation Between Aesthetics and Politics in Contemporary Turkish Novels. I Will Extend This Study Further Through A Comparative Analysis Including Political Novels From Latin America and Other Relevant Regions. I Am Also A Member of The Steering Committee of A Joint Esf-Costproject Titled "Cultural Literacy in Contemporary Europe," Which Aims To Highlight and Advance The Contribution of Literary and Cultural Studies To European Society and Intellectual Culture As Well As Addressing The Challenges Presented To These Studies By New Forms of Literature, Textuality, and Communication. I Am Involved Specifically in The Study of Electronic Textuality Within The Framework of This Project</i></p>

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Research Area Keywords	<i>Nationalism; Modernity; Cultural Policy and Cultural Politics; The Artworld, EU Integration.</i>
Current Research Activities	<i>My Research Is Located At The Intersection of Studies on Nationalism and Modernity, Cultural Policy and Cultural Politics, Visual Anthropology and The Artworld. It Explores How Art and Other Kinds of Aesthetic Expression Are Made Productive in An Array of Political Projects; How They Present A Realm of Governance As Well As A Potential Challenge To This Very Governance. Currently, I Am Working on A Research Project That Examines The Role of Art and Aesthetics in Political Reconciliation Processes. The Study Maps The Historical Context in Which Art Has Been Ascribed The Potential For Generating Empathy and The Emergence of The Concept of Historical Empathy As A Didactic Tool, While Also Exploring How Cultural Producers and Consumers Assess The Affective Impact of Art in Reconciliation Efforts. A Second Project That I Am Conducting, Documents The Modalities of and Fall-Outs From Istanbul's 2010 European Capital of Culture Tenure. This Includes Interrogating The Different Interests and Political Agendas That Are Articulated By Referencing 'The Idea of Europe' in The Context of The Cultural Capital Initiative, and Examining The Organizational and Bureaucratic Shifts and Challenges That Have Accompanied The Implementation of The Program.</i>

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Research Area Keywords	<i>Distributive Justice; Epistemic Justice; Social Epistemology.</i>
Current Research Activities	<i>Distributive Justice; Epistemic Justice; Social Epistemology Current Research Activities: Until Recently, I Have Worked on Questions of Distributive Justice. In particular, I Have Worked on Normative and Methodological Challenges to John Rawls's Theory of Justice. Currently, I Am Working On Questions Such As How Science Should Be Governed in Democratic societies and Whether Knowledge, and Other Epistemic Goods, Give Rise to Questions of Justice.</i>

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Current Research Activities	<i>Leyla Neyzi Is Currently Working on A Series of Articles Based on The Data Collected During Two Consecutive Research Projects She Conducted in 2009-2012 and 2012-2013. One Article Is Forthcoming in New Perspectives on Turkey, and Three Other Articles Are Planned To Be Submitted To Indexed Journals in 2014.</i>

## CULTURAL STUDIES

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Research Area Keywords	<i>Globalization and Transnational Processes; Migration Policies; Citizenship and Belonging; Postsocialism; Europe; Turkey.</i>
Current Research Activities	<i>Ayşe Parla's Ongoing Research, Supported By A Three-Year Long Tubitak Career Grant, Explores Legalization Processes Among The Post-Nineties Labor Migrants From Bulgaria To Turkey. This Research Was Designed on The Basis of A Recently Completed Collaborative Tubitak Research Project (With Mine Eder and Didemdanış) on The Comparative Analysis of Three Migrant Groups: Bulgarian Turks, Iraqi Turks and Moldavians. Some of The Findings of These Two Projects Have Been Published In Journals Such As The American Ethnologist, Alternatives: Global, Local, Political and Toplum Ve Bilim. Parla Is Also Collaborating In A Research Project on "Migrants and Settlers on Both Sides of The Turkish Bulgarian Border," Led By A Research Team At The Newbulgarianuniversity. She Is Also An Affiliate of The Project "Liberalism's Others" Undertaken By The Center For The Critical Analysis of Social Difference At Columbia University.</i>

## ECONOMICS

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Research Area Keywords	<i>National Identity and Culture; Postcolonial Literatures; Gender Studies; Representations of Violence.</i>
Current Research Activities	<i>Annedith Schneider Teaches Courses on Culture and Migration, Postcolonialism, Literature, and Gender Studies. She Has Published Articles on Beur and Algerian Francophone Literature, Focusing on Cultural Displacement, Violence and Gendered Responses To These Issues. She Is Currently Working on A Project Funded By The Scientific and Technological Research Council of Turkey (Tübitak) on Cultural Work By The Descendants of Immigrants From Turkey Living in France.</i>

MUSTAFA OĞUZ AFACAN (FACULTY MEMBER)	
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Research Area Keywords	<i>Matching Theory, Market Design, Game Theory.</i>
Current Research Activities	<i>Mustafa Oguzafacan Is Broadly Interested in Matching Theory, Market Design, and Game Theory. Specifically, Discreet Object Allocation and Two-Sided Matching Problems Are His Fields of Expertise. Mustafa Oguzafacan Is Currently Working on The Generalization of The Conventional Priority-Based Object Allocation Problem.</i>

AHMET ALKAN (FACULTY MEMBER)	
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Research Area Keywords	<i>Microeconomic Theory, Game Theory; Matching and Auctions.</i>
Current Research Activities	<i>His Research Interests Are in Economic Theory and Game Theory in General Matchings, Auctions, Mechanism and Market Design in Particular. Currently He Is Working on An Information Acquisition Problem in Matching Markets and on Multiobject Auction Design. He Is Also Interested in The Education Sector Where Matching Rules and Institutions Are Particularly Important and Engaged in An Empirical Study of The Secondary Education Sector in Turkey, Specifically on The Determinants of Success in University Placements.</i>

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Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My Current Research Areas Are Competition Law and Policy, Regulation In Telecommunications and Electricity Industries, and Privatization. In The Field of Competition Law, I Am Currently Conducting A Tubitak-Sponsored Project on The Examination of Competition Board Decisions From The Perspective of Law and Economics. The Decisions of The Competition Board Are Examined With Two Objectives in Mind: The First Is To Evaluate The Extent and Sophistication of Economic Analysis They Contain. The Second Is To Compare Them With The Decisions Undertaken in The Application of Competition Law in The European Union. In The Field of Regulation, I Am Studying The Interaction Between Ex-Ante Regulation And Ex-Post Enforcement of Competition Law in The Telecommunications Industry. In Electricity Regulation, I Am Writing A Paper On The General Assessment Of Restructuring in The Electricity Industry in Turkey. In Privatization, I Have Recently Published A Book Chapter on The Assessment of The Recent Privatization Experience In Turkey.</i>

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Research Area Keywords	<i>Applied Microeconomics; Labour Economics; Migration; Education.</i>
Current Research Activities	<i>Abdurrahman Aydemir's Research Focuses on Immigration, Education, and Intergenerational Mobility. He Is Currently Working on A Number of Projects That Investigates The Role of Ethnic Networks on Human Capital Investments, The Labor Market Outcomes of Turkish Immigrants Across Europe, and The Impact of The Change in Compulsory Schooling Laws on Educational Attainment and Labor Market Outcomes in Turkey.</i>

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Research Area Keywords	<i>Microeconomics; Industrial Organization; Law and Economics.</i>
Current Research Activities	<i>Recent Papers Focus on The Following Topics: (A) Theoretical Analysis of The Interaction Between The Defensive and Offensive Demands For Guns, Optimal Gun Control Policies; (B) The Equilibrium Analysis of Opinion Expressions Under Social Sanctions Imposed By The Majority, Dominant, Culture, (C) Emergence of Old-Boy Networks of Entrepreneurs and Their Welfare Effects (With Ereninci), (D) Prohibition Policies When Goods Can Be Offered As Bribes and Gifts.</i>

**MEHMET BARLO (FACULTY MEMBER)**

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Research Area Keywords	<i>Microeconomics and Game Theory; Mechanism Design; Contract Theory; Monetary Theory; Growth Theory and Development; International Finance and Trade.</i>
Current Research Activities	<i>Mehmet Barlo's Field of Research Consists of Bounded Rationality In Game Theory, A Subfield Of Microeconomics. The Theory of Games Analyzes Optimal Behavior of Decision Makers When The Returns of Each of Them Depend on The Choices of Others. In This Analysis Rationality Is An Essential Ingredient, and in Some Cases The Assumption of Rationality Implies Formulations With Agents' Ability To Compute/Foresee Extremely Complex Analytical and Computational Operations. This, of Course, Is Hardly Realistic. Barlo's Research, on The Other Hand, Concerns The Analysis of Agents' Optimal Behavior When Each One of Them Is Boundedly Rational, Meaning That Their Ability To Process Information and Computations Is Bounded.</i>

**ALPAY FİLİZTEKİN (FACULTY MEMBER)**

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Research Area Keywords	<i>Economic Growth; Productivity Dynamics; Examination of Effects of Inflation on Real Economy; Applied Macroeconomics.</i>
Current Research Activities	<i>He Is Currently Involved in Four Projects. The First One Is A Continuation of His Earlier Research and Investigates Whether The Law Of One Price Holds in Turkey. Second Research Item He Pursues Is About Regional Income and Consumption Distribution. Over The Last 15 Years Turkey Has Been Through Many Crises, and There Is A Common Belief That There Are Significant Regional Disparities in Income and Consumption. He Is Analyzing The Extent and Nature of The Inequalities and Their Dynamics. Third Project Prof. Filiztekin Works on Examines Success in Secondary Education in Turkey. The Main Question of His Research Is Whether Different Types of Secondary Education Institutions Have Differential Impact on Students' Success. Finally, He Is Involved in A Research That Is A Subject of A Different But Related Field, Namely Marketing. He With His Coauthor Examines The Changing Market Structure and Store Choice of Consumers in Retail Food Sector in Turkey. Urbanization Has Significantly Changed The Way People Do Shopping, and The Entry of Multinational Firms Following Rapid Globalization Increased Modernization in Turkey. The Question of His Research Is Then How Markets, Consumers and Competition, Have Responded To These Changes.</i>

**İNCİ GÜMÜŞ (FACULTY MEMBER)**

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Research Area Keywords	<i>International Finance, Open Economy, Macroeconomics.</i>
Current Research Activities	<i>İnci Gümüş's Research Areas Are International Finance Open Economy Macroeconomics. Her Research Focuses Mainly Only on Sovereign Default Risk, Currency Crises, Exchange Rate Regimes and Business Cycles in Emerging Market Economies. Dr. Gümüş Is Currently Working on Business Cycle Properties of Emerging Market Economies Under Different Exchange Rate Regimes, and The Relationship Between Real Exchange Rates and Macroeconomic Fluctuations.</i>

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Research Area Keywords	<i>Applied Microeconomic Theory (Public Economics, Urban Economics, and Industrial Organization); and Economics of Entrepreneurship.</i>
Current Research Activities	<i>Eren İnci's Recent Research Projects Are Concentrating Primarily on Two Topics: Economics of Entrepreneurship and Economics of Parking. His Work In Entrepreneurship Has Focused on It From An Occupational Choice Perspective To Answer Who Become Entrepreneurs From Which Particular Wealth Classes. He Has Contributed To The Analysis of Public Policies To Improve The Quality of Entrepreneurs in The Presence of Informational Constraints on Behalf of Both Financiers and Policy Makers. His More Recent Work Ramifies Into Two Branches. On The One Side, He Has Analyzed Entrepreneurs' Financing Choice Between Debt- and Equity-Based Instruments When Equity Providers Take Certain Amount of Control in The Ventures That They Are Financing, Which Is Particularly Relevant For Venture Capital Agreements. On The Other Side, He Has Examined The Effects of Social Ties and Informal Networks on The Price of Loans To Entrepreneurs and on Their Incentives To Invest in Themselves and Innovative Start-Up Projects. Dr. İnci's Research in Economics of Parking Considers Optimal Pricing of and Land Allocation For Parking. He Has Analyzed Cruising For Parking in Downtown Areas in Order To Come Up With Policies To Mitigate Traffic Congestion. He Also Modeled The Evolution of Downtown Parking and Traffic Congestion To Different States in Time To Understand How and Why Catastrophic Transitions To Hypercongested Traffic Occur. His Most Recent Work Focuses on Pricing of Parking In Shopping Malls, Which Is Mostly Provided Free All Over The World. In This Context, He Provides The Theoretical Foundations of Minimum Parking Requirements, and As Opposed To The Common View, He Shows Why Embedding Parking Fees Into The Price of Goods Sold In The Mall May Be Socially Optimal.</i>

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Research Area Keywords	<i>Applied Microeconomics; Industrial Organizations; International Trade.</i>
Current Research Activities	<i>Esra Durceylan Kaygusuz's Research Mainly Focuses on Firms' Behaviour in Competitive Markets. Understanding Firms' Investment, Employment, Research and Development Activities, Exporting Decisions and The Factors That Motivate and Affect Those Allows Her To Make Policy Relevant Recommendations As Well. Recently, Her Research Focuses on Answering Questions Like: "If Governments' Aim Is To Foster The Manufacturing Sector Both in Terms of Productivity and Exporting, Should They Subsidize The Education of Mba's or Scientists?" or "Can Operational Figures Like Inventory Behaviour Signal Bankruptcy Before The Well Used Financial Statements?" or "Do Managers In Financial Crisis Times Get Unfairly High Wages? Do Manager's of Small Firms Compared To Larger Firms Work Harder When They Face More Competition?"</i>

REMZİ KAYGUSUZ (FACULTY MEMBER)	
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Research Area Keywords	<i>Macroeconomics, Taxation, Social Security, Tax Reforms, Two-Earner Households, Female Labor Force Participation.</i>
Current Research Activities	<i>I Investigate Macroeconomic and Welfare Implications of Fiscal Policies With A Special Focus on Their Effects on Household Labor Supply and Saving Behavior. Following Are The Questions That I Am Currently Working. What Are The Quantitative Implications of Switching From A Progressive Income Taxation To A Flat Rate Income Taxation? What Are The Redistributive and Labor Supply Implications of Social Security Rules?</i>

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Research Area Keywords	<i>Game Theory; Economic Design; Political Economics.</i>
Current Research Activities	<i>Recently, His Research Efforts Has Focused On Two Topics. The First Topic Is Rationality of Solutions To Allocation Problems. The Analysis Falls Into The Realms of Both Decision Theory (More Specifically, Revealed Preference Theory) and Axiomatic Allocation Theory. Here, Professor Kibris Introduces Alternative Notions of Rationality and Characterizes The Classes of Allocation Rules That Satisfy Them. The Second Topic Falls Under The General Title of Bankruptcy. Here, Professor Kibris Analyzes Several Issues Such As The Investment Implications of Alternative Bankruptcy Laws, Manipulation Games Induced By Standard Bankruptcy Rules, and Designing Desirable Solutions To Dynamic Bankruptcy Problems.</i>

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Research Area Keywords	<i>Game Theory (Bargaining, Reputation, Equilibrium concepts, Repeated Games); Mechanism Design (Social Choice, Matching, Auctions); Microeconomic Theory; Industrial Organization; Experimental Economics.</i>
Current Research Activities	<i>Dr. Ozyurt's Recent Projects Mainly Investigate (in A Game Theoretical Framework) How Reputation and Commitment on Inflexibility During Negotiation Processes Would Effect The Structure and The Equilibrium Outcomes of Imperfectly Competitive Search Markets. He Also Works on A Project Entitled "Wishful Thinking and Rationally Motivated Beliefs" in Which He Proposes A New Equilibrium Concept For Strategic Form Games. In Another Ongoing Work, Dr. Ozyurt Examines School Matching Mechanisms Under Circumstances Where Commuting Cost May Significantly Affect Students' Preferences.</i>

## ECONOMICS

### HAKKI YAZICI (FACULTY MEMBER)

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Current Research Activities	<i>Hakki Yazıcı's primary fields of research are Macroeconomics and Public Finance. Currently, he is especially interested in optimal education policy. He is working on how to design public programs to provide equality of opportunity for children from poor families with Prof. Nicola Pavoni of University College London and Tommy Leung of Chinese University of Hong Kong.</i>

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Research Area Keywords	<i>International Economics; Macroeconomics, History of Economic Thought, European Economic Integration; Economic Development (Eastern Asia and China).</i>
Current Research Activities	<i>Institutions and Economic Development; World Economic Crisis and Its Impacts on Turkey; European Energy Security and The Role of Turkey; Relations of Turkey With The Eu.</i>

## EUROPEAN STUDIES

### HÜLYA ADAK (FACULTY MEMBER)

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Research Area Keywords	<i>Literary Theory; Nationalism; Gender and Sexuality; Theories of Autobiography; British, French and Turkish Novel; Modern Drama.</i>
Current Research Activities	<i>In Collaboration With A Group of Colleagues From Duke University, University of Texas-Austin, Northwestern University, She Received A Grant From The British Arts and Humanities Research Council To Conduct The Project "Women's Autobiographies in Islamic Societies." As Part of This Three-Year Long Project That Terminates in 2012, She Would Like To Finish A Book on The Work of Halide Edibadivar. In The Summer of 2010, She Would Like To Finish The Book on National Myths of Turkey Analyzing Political Memoirs. The Special Dossier of New Perspectives on Turkey (Ssci) on "Gender and Ethnicity" For Which She Is The Guest Editor Will Be Published in May 2010. The Anthology I Prepared With Prof. Erika Glassen (Freiburg University) Modern Türkische Geschichte Explores Key Social and Cultural Events of The Twentieth Century Through A Series of Heretofore-Dismissed, Yet Quite Significant Auto/Biographical Sources. The German Version Will Be Published in The Summer of 2010. Erika Glassen and Hülya Adak Would Like To Expand The Anthology and Publish It in Turkish in Turkey. The Book İşte böyle güzelim... Based on Interviews With Women From Turkey and Germany on Sexuality Was Published in 2008, The German Translation So Ist Das, Meineschöne... Was Published By Orlanda Frauenverlag in 2009. The Long-Term Goals of The Project Consist of Preparing A Second Book Including Our Current Interviews on Sexuality, and Publishing An Edited Volume (An Academic Book) on "Feminism, Sexuality and Theater" in Turkey. Her Long-Term Research Goals Include Working on How World War I and The Armenian Catastrophe Were Represented in Turkish Fictional and Auto/Biographical Narratives.</i>

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Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My Current Research Areas Are Competition Law and Policy, Regulation in Telecommunications and Electricity Industries, and Privatization. In The Field of Competition Law, I Am Currently Conducting A Tubitak-Sponsored Project on The Examination of Competition Board Decisions From The Perspective of Law and Economics. The Decisions of The Competition Board Are Examined With Two Objectives in Mind: The First Is To Evaluate The Extent and Sophistication of Economic Analysis They Contain. The Second Is To Compare Them With The Decisions Undertaken in The Application of Competition Law in The European Union. in The Field of Regulation, I Am Studying The Interaction Between Ex-Ante Regulation and Ex-Post Enforcement of Competition Law in The Telecommunications Industry. In Electricity Regulation, I Am Writing A Paper on The General Assessment of Restructuring in The Electricity Industry in Turkey. In Privatization, I Have Recently Published A Book Chapter on The Assessment of The Recent Privatization Experience in Turkey.</i>

BÜLENT ARAS (FACULTY MEMBER)	
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Research Area Keywords	<i>Turkish Foreign Policy, Middle East, Arab Spring, Arab Authoritarianism, Caucasus and Central Asia, Geopolitics, Peacebuilding, Mediation and Conflict Resolution .</i>
Current Research Activities	<p><i>1- A Multi-Year Project Entitled Project on Middle East and Arab Spring (Pomeas) Funded By Diplomatic Academy of Qatar (2014-2016).</i></p> <ul style="list-style-type: none"> <li><i>- Project Aims To Promote Scholarly Debate on The Challenges and Opportunities in Post-Arab Spring Environment in The Middle East and North Africa.</i></li> <li><i>- POMEASE Hosts High Quality Academic Pieces and Policy Briefs At Its Web Site, Available At Pomeas.org</i></li> </ul> <p><i>2- 18 Months Long Project on Civilian Capacity in Turkey's Peace-Building Funded By Turkish Cooperation and Coordination Agency (TIKA) (2014-2016).</i></p> <ul style="list-style-type: none"> <li><i>- Project Will Bring Turkish and International Experts and Active Ngos Together To Combine Knowledge and Expertise In The Specifics of Civilian Dimension of Peacebuilding.</i></li> <li><i>- There Will Be Field Research in 8 Countries To Discover Turkish Ngo Activities in Health, Emergency Relief, Health and Poverty Reduction.</i></li> </ul> <p><i>3- 10 Months Long Project on Turkey's Peacebuilding Funded By Turkish Ministry of Foreign Affairs (2013-2014).</i></p> <ul style="list-style-type: none"> <li><i>- A Product of The Research "The Role of Humanitarian Ngos in Turkey's Peacebuilding" (Co-Authored With Pinar Akpınar) Was Submitted To Peacekeeping (Scsi Journal) and Is Under Review.</i></li> </ul> <p><i>4- A Multi-Year Project To Establish An Asia Studies At Istanbul Policy Center Is in Preparation.</i></p>

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Research Area Keywords	<i>20th Century Turkish Nationalism and Its Historiography; Studies from Comparative Perspective of Social and Economic History and European Medieval History; the Construction of Turkish National Memory.</i>

**AHMET EVİN (EMERITUS PROFESSOR)**

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Research Area Keywords	<i>Turkish and Comparative Politics; Theories of the State; the European Union and Its Enlargement.</i>
Current Research Activities	<i>His Research Has Centered on Cultural Contexts of Political Change, in Particular The Theory of The State and Development of Democracy As A Form of State. More Recently, He Has Been Working on Policy Issues Relating To The European Enlargement and Eu's Eastern Partnership, Their Significance For Turkey and The Region, As Well As Their Effect on Transatlantic Relations. "Turkey and Its Neighbors," His Current Research Project At The Transatlantic Academy, Focuses on Transatlantic and Eu Membership Implications of Turkey's Foreign and Energy Policies in The Context of Europe's Energy Supply Security.</i>

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Research Area Keywords	<i>Comparative Politics; Political Ideologies (Nationalism, Fascism, Liberalism); Women and Islam; Citizenship Studies.</i>
Current Research Activities	<i>1) Laicism in Turkey: A Comparison of The Views of The Key Republican Elite on Religion in The 1920s. 2) The Political Choreography of The Justice and Development Party, An Analysis of The Relationship Between Domestic Politics and Foreign Policy Agendas. 3) How Was Citizenship Described By The Republican Elite in The 1930s</i>

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Research Area Keywords	<i>European Legislation; Public Support for European Integration; Compliance With International Law.</i>
Current Research Activities	<i>Brooke Luetgert Specializes in Public Opinion Formation As Well As Quantitative Legislative and Compliance Research. Her Expertise in The Collection and Evaluation of Legislative Data Has Contributed To A Series of Popularly Cited Legislative Archives At Both The European and National Levels. She Has Published in European Union Politics and British Journal of Political Science, Winning Best Article of The Year in 2009 (Eup) For A Contribution Testing Competing Explanations in The Compliance Debate in Europe and Emphasizing The Importance of Sample Design. During Her Margarete Von Wrangell Postdoctoral Fellowship, She Began Exploring Bureaucratic Delegation in Four European Countries. She Is Currently Involved in Continued Research on Public Opinion Formation and The Empirical Link Between Policy Evaluation, Awareness and Support For Continued European Integration.</i>

**MELTEM MÜFTÜLER BAÇ (FACULTY MEMBER)**

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Research Area Keywords	<i>International Relations Theory; Politics of European Integration; Turkey's Relations with the EU.</i>
Current Research Activities	<i>Meltem Müftüler Baç Is Actively Involved in Research on The Eu, Particularly Its Political Integration Process, The Foreign, Security and Defense Policies, and Its Enlargement. Her Work Is Most Cited on Turkey-Eu Relations and Turkey's Accession Process. Her Current Research Activities Include The Eu's Security Aspirations and The Legitimacy Crisis The Eu Is Currently Facing. Her Research Expertise Is on The Turkish-Eu Relations, The Eu's Security Integration and The Turkish and European Foreign Policies, and The Political Dynamics of The European Integration Process, As Well As on The Possible Role That Islam Will Have on The Contestation of Values and As A Cause of Conflict. she Authored Turkey's Relations With A Changing Europe Published By The Manchester University Press in 1997, Co-Edited Turkey and The European Union: Dilemmas, Constraints and Opportunities With Yannisstivachtis Which Was Published By Lexington Books in 2008. She Has Numerous Articles in Refereed Ssci Journals and Book Chapters in Collections on The European Integration Published By Reputable International Presses. For Her Research Activities, She Received Two Prestigious Awards From The Turkishacademy of Sciences: Young Social Scientist Investigator Award in 2002,Distinguished Young Scientist Award in 2003, and The Jean Monnet Ad Personam Title From The European Commission in 2004. She Participates in The Fp6 Project Recon-Reconstituting Democracy in Europe For The Time Period of 2006-2011. She Also Serves As The Chair For The Standing Group on The Eu, Ecpr For 2009-2011.</i>

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Research Area Keywords	<i>Comparative Political Economy, International Political Economy, Comparative Politics, Latin American Politics.</i>
Current Research Activities	<i>Işık Özel Is Interested in Political Economy of Market Transitions and Democratization, State-Society Relations, and Comparative Political Economy of Regulation. She Is Currently Working on A Project Entitled 'Regulation in Economic Governance.' Funded By Tubitak, This Project Focuses on Regulatory Capacity and Quality By Carrying Out A Cross-Sectoral Analysis in Turkey. It Examines The Regulatory Quality in Three Sectors, Finance, Energy and Telecommunications To Understand Economic, Political and Institutional Determinants Affecting Regulatory Quality. Özel Also Works on The Role of Institutions and Formation of Institutions in Market Transition Processes in Middle Income Countries. She Is Generally Interested in Institutional Explanations of Development.</i>

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Research Area Keywords	Globalization and transnational processes; migration policies; citizenship and belonging; postsocialism; Europe; Turkey.
Current Research Activities	Ayşe Parla's Ongoing Research, Supported By A Three-Year Long Tubitak Career Grant, Explores Legalization Processes Among The Post-Nineties Labor Migrants From Bulgaria To Turkey. This Research Was Designed On The Basis Of A Recently Completed Collaborative Tubitak Research Project (With Mine Eder and Didemdanış) On The Comparative Analysis Of Three Migrant Groups: Bulgarian Turks, Iraqi Turks and Moldavians. Some Of The Findings Of These Two Projects Have Been Published In Journals Such As The American Ethnologist, Alternatives: Global, Local, Political and Toplumvebilim. Parla Is Also Collaborating In A Research Project On "Migrants and Settlers On Both Sides Of The Turkish Bulgarian Border," Led By A Research Team At The Newbulgarianuniversity. She Is Also An Affiliate Of The Project "Liberalism's Others" Undertaken By The Center For The Critical Analysis Of Social Difference At Columbiauniversity.

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Research Area Keywords	International Economics; Macroeconomics, History of Economic Thought, European Economic Integration; Economic Development (Eastern Asia and China).
Current Research Activities	Institutions and Economic Development; World Economic Crisis and Its Impacts on Turkey; European Energy Security and The Role of Turkey; Relations of Turkey With The Eu.

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Research Area Keywords	Historiography; Prosopographic Studies of the Ottoman Elite; Applications of Ottoman Law and its Impact on Social/Family Life; Ottoman Households, 17th-18th Century Ottoman and Middle Eastern History in Comparative Perspective.
Current Research Activities	Prosopographic Studies of The Ottoman Grand Viziers; Ottoman Royal Hunt; Ottoman Collecting Culture; Books and Reading Culture; Treasury Account Book of The Topkapı Palace -1680; Teşvikiyemahallesiarastırmaları : Tarih, Mimari, Yaşam 1800-1900.

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Research Area Keywords	20 <sup>th</sup> Century Turkish Nationalism and Its Historiography; Studies from Comparative Perspective of Social and Economic History and Europe Medieval History; The Construction of Turkish National Memory.

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Research Area Keywords	Early Modern Ottoman History; Urban History; Legal Culture; Political Culture; Social and Economic History.
Current Research Activities	18 <sup>th</sup> -Century Rebellions in South Eastern Anatolia and Northern Syria; Distribution of Wealth in The Ottoman Empire (1500-1840); Household Patterns in The Ottoman Empire (1500-1840); Labor Relations in The Ottoman Empire (1500-1840).

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Research Area Keywords	<i>History of Ottoman Slavery, Modern State Construction in the Late Ottoman Empire; Repercussions of the Greek War of Independence in the Ottoman Empire; Introduction of the New Conscript Army, Transformation of Ottoman Political Language and Culture.</i>
Current Research Activities	<i>A Documentary History of The Greek Revolution From The Ottoman Archives (Book); Selim iii: The Sultan With Two States (Book); Magic, Theft and Arson: The Life and Death of An Enslaved African Woman in Ottoman Izmit (Article / Book).</i>

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Research Area Keywords	<i>Turkish Political History; Turkish Foreign Policy; Historical Writing and Methodology.</i>
Current Research Activities	<i>Turkish Political History; History of Turkish Foreign Policy (Turkish-American Diplomatic Relations After Second World War); Historiography; Methodology of The Discipline of History.</i>

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Current Research Activities	<i>Bratislav Pantelic Is An Art Historian Who Specializes in The Art and Architecture of Southeastern Europe. He Has Published on Late Classical, Byzantine and Medieval Art and Architecture. In His Most Recent Works He Has Ventured Into The Modern Age To Concentrate on Issues Relating To The Visual Arts, Nationalism and Identity. His Focus Is on The Past -- How The Past Has Been Perceived and in Particular How Perceptions of The Past and Notions of Heritage and Cultural Belonging Are Used in Identity Construction and Eventually To Influence Political Action.</i>

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Current Research Activities	<i>Ottoman Educational Policies in Syria; Historical Statistics of Istanbul; Biographies of Ottoman Bureaucrats.</i>

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Current Research Activities	<p>1- A Multi-Year Project Entitled Project On Middle East and Arab Spring (Pomeas) Funded By Diplomatic Academy Of Qatar (2014-2016).</p> <ul style="list-style-type: none"> <li>- Project Aims To Promote Scholarly Debate On The Challenges and Opportunities in Post-Arab Spring Environment in The Middle East and North Africa.</li> <li>- POMEASE Hosts High Quality Academic Pieces and Policy Briefs At Its Web Site, Available At <a href="http://Pomeas.org">Pomeas.org</a></li> </ul> <p>2- 18 Months Long Project on Civilian Capacity in Turkey's Peace-Building Funded By Turkish Cooperation and Coordination Agency (TIKA) (2014-2016)</p> <ul style="list-style-type: none"> <li>- Project Will Bring Turkish and International Experts and Active Ngos Together To Combine Knowledge and Expertise in The Specifics of Civilian Dimension of Peacebuilding.</li> <li>- There Will Be Field Research in 8 Countries To Discover Turkish Ngo Activities in Health, Emergency Relief, Health and Poverty Reduction.</li> </ul> <p>3- 10 Months Long Project on Turkey's Peacebuilding Funded By Turkish Ministry of Foreign Affairs (2013-2014).</p> <ul style="list-style-type: none"> <li>- A Product of The Research "The Role of Humanitarian Ngos in Turkey's Peacebuilding" (Co-Authored With Pinar Akpinar) Was Submitted To Peacekeeping (Ssci Journal) and Is Under Review.</li> </ul> <p>4- A Multi-Year Project To Establish An Asia Studies At Istanbul Policy Center Is in Preparation.</p>

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Current Research Activities	<i>Emre Hatipoğlu's Research Employs Quantitative and Formal Methods To Examine The Intersection of Domestic and Interstate Politics. His Expertise Covers Issues Relating To Economic Sanctions, Foreign Aid, U.s. Foreign Policy and International Conflict. Dr. Hatipoğlu Has Also Worked Extensively in The Militarized Interstate Disputes Dataset Project Under The Correlates of War Program. He Has Presented Papers on U.s. Congress and Economic Sanctions, Automated Data Collection Issues in International Conflict Research, The Application of "Two-Good Theory of Foreign Policy" To Turkey, and Co-Authored A Forthcoming Article on The State of Quantitative International Conflict Studies At Terrorism and Political Violence. He Is Also Working on A Project That Gauges The Effect of Foreign Aid on Economic and Political Development.</i>

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Current Research Activities	<p>1) Laicism in Turkey: A Comparison of The Views of The Key Republican Elite on Religion in The 1920S.</p> <p>2) The Political Choreography of The Justice and Development Party, An Analysis of The Relationship Between Domestic Politics and Foreign Policy Agendas.</p> <p>3) How Was Citizenship Described By The Republican Elite in The 1930S.</p>

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Research Area Keywords	<i>Politics of Developing Countries, Political Parties, Formal Modeling, Latin American Politics.</i>
Current Research Activities	<i>She Is Currently Conducting Research on Clientelism in Argentina and Turkey, State Spending in Brazil, Party Switching in Turkey, Turnout in Legislative Elections of Turkey and Electoral Accountability in The Gubernatorial Elections of Argentina. In September 2010, She Will Start A New Project on Incumbency Advantage in Municipal and Legislative Elections of Chile and Turkey.</i>

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Research Area Keywords	<i>Globalization; Democratization; Turkish Politics; International Relations Theory.</i>
Current Research Activities	<i>Fuat Keyman Is Actively Involved in Research on Globalization Processes and Their Impact S on Turkey, Particularly Its Democratization, Its Socio-Economic Transformation, As Well As Its Foreign Policy. In Doing So, He Has Produced Work on Turkey-Eu Relations, Turkey'd Transformation, and Turkish Foreign Policy, and Turkey's Accession Process.he Authored Many Books and Articles on These Topics, The Most Recent of Which Are: Symbiotic Antagonisms: Competing Nationalisms in Turkey (Utah University Press); Turkey's Transformation and Democratic Consolidation (Palgrave Macmillan); Cities: Urban Transformation in Turkey (Doğankitap). He Has Finished The Framework 7 European Project: Enacting European Citizenship, and Carrying on A Tubitak Research on Urban Transformation in Turkey: İzmir, Kayseri, Diyarbakır, and Trabzon.</i>

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Current Research Activities	<i>Arzu Kibris's Research Interests Focuses on The Dynamics and Socio-Political Effects of Civil Conflicts, and The Linkages Between Domestic and Foreign Policy. She Mostly Conducts Empirical Work, But Also Employs Game Theoretical Tools in Her Analyses. Her Current Projects Are About The Impact of Pkk's Terrorist Campaign on Voting Behavior and on Educational Sector in Turkey. She Is Also Working on A Game Theoretical Model of Ethnic Civil Conflicts Project Aimed At Understanding The Interplay Between Public Opinion and The Long Duration of These Conflicts.</i>

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Current Research Activities	<i>Meltem Müftüler Baç Is Actively Involved in Research on The Eu, Particularly Its Political Integration Process, The Foreign, Security and Defense Policies, and Its Enlargement. Her Work Is Most Cited on Turkey-Eu Relations and Turkey's Accession Process. Her Current Research Activities Include The Eu's Security Aspirations and The Legitimacy Crisis The Eu Is Currently Facing. Her Research Expertise Is on The Turkish-Eu Relations, The Eu's Security Integration and The Turkish and European Foreign Policies, and The Political Dynamics of The European Integration Process, As Well As on The Possible Role That Islam Will Have on The Contestation of Values and As A Cause of Conflict. she Authored Turkey's Relations With A Changing Europe Published By The Manchester University Press in 1997, Co-Edited Turkey and The European Union: Dilemmas, Constraints and Opportunities With Yannisstivachtis Which Was Published By Lexington Books in 2008. She Has Numerous Articles in Refereed Ssci Journals and Book Chapters in Collections on The European Integration Published By Reputable International Presses. For Her Research Activities, She Received Two Prestigious Awards From The Turkishacademy of Sciences: Young Social Scientist Investigator Award in 2002,Distinguished Young Scientist Award in 2003, and The Jean Monnet Ad Personam Title From The European Commission in 2004. She Participates in The Fp6 Project Recon-Reconstituting Democracy in Europe For The Time Period of 2006-2011. She Also Serves As The Chair For The Standing.</i>

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Current Research Activities	<i>Işık Özel Is Interested in Political Economy of Market Transitions and Democratization, State-Society Relations, and Comparative Political Economy of Regulation. She Is Currently Working on A Project Entitled 'Regulation in Economic Governance.' Funded By Tubitak, This Project Focuses on Regulatory Capacity and Quality By Carrying Out A Cross-Sectoral Analysis in Turkey. It Examines The Regulatory Quality in Three Sectors, Finance, Energy and Telecommunications To Understand Economic, Political and Institutional Determinants Affecting Regulatory Quality. Özel Also Works on The Role of Institutions and Formation of Institutions in Market Transition Processes in Middle Income Countries. She Is Generally Interested in Institutional Explanations of Development.</i>

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Current Research Activities	<p>1- A Multi-Year Project Entitled Project on Middle East and Arab Spring (Pomeas) Funded By Diplomatic Academy of Qatar (2014-2016).  - Project Aims To Promote Scholarly Debate on The Challenges and Opportunities in Post-Arab Spring Environment in The Middle East and North Africa.  - POMEASE Hosts High Quality Academic Pieces and Policy Briefs At Its Web Site, Available At Pomeas.org</p> <p>2- 18 Months Long Project on Civilian Capacity in Turkey's Peace-Building Funded By Turkish Cooperation and Coordination Agency (TIKA) (2014-2016).  - Project Will Bring Turkish and International Experts and Active Ngos Together To Combine Knowledge and Expertise in The Specifics of Civilian Dimension of Peacebuilding.  - There Will Be Field Research in 8 Countries To Discover Turkish Ngo Activities in Health, Emergency Relief, Health and Poverty Reduction.</p> <p>3- 10 Months Long Project on Turkey's Peacebuilding Funded By Turkish Ministry of Foreign Affairs (2013-2014).  - A Product of The Research "The Role of Humanitarian Ngos in Turkey's Peacebuilding" (Co-Authored With Pinar Akpınar) Was Submitted To Peacekeeping (Ssci Journal) and Is Under Review.</p> <p>4- A Multi-Year Project To Establish An Asia Studies At Istanbul Policy Center Is in Preparation.</p>

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Research Area Keywords	<i>Reconciliation in Kurdish Question, Indigenous Conflict Resolution Methods, Intercultural Negotiation, Women in Politics.</i>
Current Research Activities	<p>Ayşe Betül Çelik's Research Interests Focus Around Ethnicity, Migration and Cultural Elements in Conflict and Conflict Resolution. Recently, She Is Involved in Projects, Which Study Possible Reconciliation Attempts in Kurdish Question; Indigenous Conflict Resolution Methods in Blood Feuds, and Honor Killings in Southeastern Anatolia; and Intercultural Negotiation. She Is A Member of The Intercultural Negotiation Project Led By The University of Maryland, Where A Computer-Based Mediator Will Analyze The Negotiation Style Differences Between The Turkish and American Students. She Is Also Working on A Research Which Analyzes The Different Roles Played By The Ngos and State Actors in Addressing The Problems of The Internally Displaced Kurds. She Is Also Interested in Studying The Differences Among Turkish Political Parties in Their Understanding of Gender Policies.</p>

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Current Research Activities	<i>His Research Has Centered on Cultural Contexts of Political Change, in Particular The Theory of The State and Development of Democracy As A Form of State. More Recently, He Has Been Working on Policy Issues Relating To The European Enlargement and Eu's Eastern Partnership, Their Significance For Turkey and The Region, As Well As Their Effect on Transatlantic Relations. "Turkey and Its Neighbors," His Current Research Project At The Transatlantic Academy, Focuses on Transatlantic and Eu Membership Implications of Turkey's Foreign and Energy Policies in The Context of Europe's Energy Supply Security.</i>

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Current Research Activities	<i>Emre Hatipoğlu's Research Employs Quantitative and Formal Methods To Examine The Intersection of Domestic and Interstate Politics. His Expertise Covers Issues Relating To Economic Sanctions, Foreign Aid, U.s. Foreign Policy and International Conflict. Dr. Hatipoğlu Has Also Worked Extensively in The Militarized Interstate Disputes Dataset Project Under The Correlates of War Program. He Has Presented Papers on U.s. Congress and Economic Sanctions, Automated Data Collection Issues in International Conflict Research, The Application of "Two-Good Theory of Foreign Policy" To Turkey, and Co-Authored A Forthcoming Article on The State of Quantitative International Conflict Studies At Terrorism and Political Violence. He Is Also Working on A Project That Gauges The Effect of Foreign Aid on Economic and Political Development.</i>

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Research Area Keywords	<i>Comparative Politics; Political Ideologies (Nationalism,Fascism, Liberalism); Women and Islam; Citizenship Studies.</i>
Current Research Activities	1) <i>Laicism in Turkey: A Comparison of The Views of The Key Republican Elite on Religion in The 1920S.</i> 2) <i>The Political Choreography of The Justice and Development Party, An Analysis of The Relationship Between Domestic Politics and Foreign Policy Agendas.</i> 3) <i>How Was Citizenship Described By The Republican Elite in The 1930s.</i>

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Research Area Keywords	<i>Political Representation, Political Participation, Voting Behavior.</i>
Current Research Activities	<i>Kalaycioğlu Currently Composes A Report on The National Representative Survey of Voting Age Population in Turkey on Social Inequality, The Field Survey of Which Had Been Completed Between October and December 2009. Social Inequality 2009 Survey Was Conducted As Part of The Annual Survey of The International Social Survey Program (Issp) in 2009, and Financially Sponsored By TUBITAK. He Is Also Preparing A National Survey of Attitudes And Values Concerning The Environment, The Field Survey of Which Will Be Conducted By Late Summer and Early Fall of 2009, Environment 2010 Survey Will Also Be Conducted As Part of The Annual Issp Surveys of 2010 And Will Also Be Sponsored By TUBITAK.</i>

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Current Research Activities	<i>She Is Currently Conducting Research on Clientelism in Argentina and Turkey, State Spending in Brazil, Party Switching in Turkey, Turnout in Legislative Elections of Turkey and Electoral Accountability in The Gubernatorial Elections of Argentina. In September 2010, She Will Start A New Project on Incumbency Advantage in Municipal and Legislative Elections of Chile and Turkey.</i>

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Research Area Keywords	<i>Globalization; Democratization; Turkish Politics; International Relations Theory.</i>
Current Research Activities	<i>Fuat Keyman Is Actively Involved in Research on Globalization Processes and Their Impact S on Turkey, Particularly Its Democratization, Its Socio-Economic Transformation, As Well As Its Foreign Policy. In Doing So, He Has Produced Work on Turkey-Eu Relations, Turkey'd Transformation, and Turkish Foreign Policy, and Turkey's Accession Process.He Authored Many Books and Articles on These Topics, The Most Recent of Which Are: Symbiotic Antagonisms: Competing Nationalisms in Turkey (Utah University Press); Turkey's Transformation and Democratic Consolidation (Palgrave Macmillan); Cities: Urban Transformation in Turkey (Doğankıtap). He Has Finished The Framework 7 European Project: Enacting European Citizenship, and Carrying on A Tubitak Research on Urban Transformation in Turkey: İzmir, Kayseri, Diyarbakır, and Trabzon.</i>

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Research Area Keywords	<i>Civil Conflict, Linkage Politics, Quantitative Methods, Game Theory.</i>
Current Research Activities	<i>Arzu Kibris's Research Interests Focuses on The Dynamics and Socio-Political Effects of Civil Conflicts, and The Linkages Between Domestic and Foreign Policy. She Mostly Conducts Empirical Work, But Also Employs Game Theoretical Tools in Her Analyses. Her Current Projects Are About The Impact of Pkk's Terrorist Campaign on Voting Behavior and on Educational Sector in Turkey. She Is Also Working on A Game Theoretical Model of Ethnic Civil Conflicts Project Aimed At Understanding The Interplay Between Public Opinion and The Long Duration of These Conflicts.</i>

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Research Area Keywords	<i>European Legislation; Public Support for European Integration; Compliance with International Law.</i>
Current Research Activities	<i>Brooke Luetgert Specializes in Public Opinion Formation As Well As Quantitative Legislative and Compliance Research. Her Expertise in The Collection and Evaluation of Legislative Data Has Contributed To A Series of Popularly Cited Legislative Archives At Both The European and National Levels. She Has Published in European Union Politics and British Journal of Political Science, Winning Best Article of The Year In 2009 (Eup) For A Contribution Testing Competing Explanations in The Compliance Debate in Europe and Emphasizing The Importance of Sample Design. During Her Margarete Von Wrangell Postdoctoral Fellowship, She Began Exploring Bureaucratic Delegation in Four European Countries. She Is Currently Involved in Continued Research on Public Opinion Formation and The Empirical Link Between Policy Evaluation, Awareness and Support For Continued European Integration.</i>

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Research Area Keywords	<i>International Relations Theory; Politics of European Integration; Turkey's Relations with the EU.</i>
Current Research Activities	<i>Meltem Müftüler Baç Is Actively Involved in Research on The Eu, Particularly Its Political Integration Process, The Foreign, Security and Defense Policies, and Its Enlargement. Her Work Is Most Cited on Turkey-Eu Relations and Turkey's Accession Process. Her Current Research Activities Include The Eu's Security Aspirations and The Legitimacy Crisis The Eu Is Currently Facing. Her Research Expertise Is on The Turkish-Eu Relations, The Eu's Security Integration and The Turkish and European Foreign Policies, and The Political Dynamics of The European Integration Process, As Well As on The Possible Role That Islam Will Have on The Contestation of Values and As A Cause of Conflict. she Authored Turkey's Relations With A Changing Europe Published By The Manchester University Press in 1997, Co-Edited Turkey and The European Union: Dilemmas, Constraints and Opportunities With Yannisstivachtis Which Was Published By Lexington Books in 2008. She Has Numerous Articles in Refereed Scsi Journals and Book Chapters In Collections on The European Integration Published By Reputable International Presses. For Her Research Activities, She Received Two Prestigious Awards From The Turkishacademy of Sciences: Young Social Scientist Investigator Award in 2002,Distinguished Young Scientist Award In 2003, and The Jean Monnet Ad Personam Title From The European Commission in 2004. She Participates in The Fp6 Project Recon-Reconstituting Democracy in Europe For The Time Period of 2006-2011. She Also Serves As The Chair For The Standing Group on The Eu, Ecpr For 2009-2011.</i>

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Research Area Keywords	<i>Political and Moral Theory; Theories of Rights; 19<sup>th</sup> Century German Philosophy; Aesthetics; Political Psychology.</i>
Current Research Activities	<i>I Work in The General Areas of Political Philosophy and The History of Political Ideas. The Basic Concern That Motivates My Research Is To Understand The Place of Concepts in Political Action As Well As in Political Thinking. Until Recently My Research Was Focused on The Writings of 19<sup>th</sup> Century German Political Thinkers. Some of My Work Appeared in The _Journal of Political Philosophy_ and The _Journal of History of Philosophy_. Recently I Began Working on The Early 20<sup>th</sup> Century Turkish Political Thought, and Especially on Ziya Gokalp and H.E.Adivar.</i>

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Research Area Keywords	<i>Comparative Political Economy, International Political Economy, Comparative Politics, Latin American Politics.</i>
Current Research Activities	<i>Işık Özel Is Interested in Political Economy of Market Transitions and Democratization, State-Society Relations, and Comparative Political Economy of Regulation. She Is Currently Working on A Project Entitled 'Regulation in Economic Governance.' Funded By Tubitak, This Project Focuses on Regulatory Capacity and Quality By Carrying Out A Cross-Sectoral Analysis in Turkey. It Examines The Regulatory Quality in Three Sectors, Finance, Energy and Telecommunications To Understand Economic, Political and Institutional Determinants Affecting Regulatory Quality. Özel Also Works on The Role of Institutions and Formation of Institutions in Market Transition Processes in Middle Income Countries. She Is Generally Interested in Institutional Explanations of Development.</i>

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Current Research Activities	Çagla Aydın's Research Interests Are Directed At Two Lines of Inquiry Related To Cognition in Social Context. Specifically, Her Current Work Focuses on Social Cognition; Development of Skills Such As Understanding of Other Minds, Judgments of Credibility of Information Sources and Detection of Misinformation. Other Line of Interest Focuses on Metacognition and Memory –Awareness People Have About Their Own Recollective Processes.

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Current Research Activities	My Research Focuses on Individual Differences in Visualization Abilities and Styles, From Both Theoretical and Applied Perspectives. It Investigates The Dissociation Between Different Types of Visualization Among Individuals of Different Ages and Specializations. Specifically, I Am Interested in The Differences Between Object Visualization (Representation and Processing of The Literal Appearances of Objects in Terms of Their Pictorial Properties Such As Shape, Color, and Texture) and Spatial Visualization (Representation and Processing of Spatial Relations, Locations of Objects in Space, and Spatial Transformations). My Research Includes Studies With Children, College Students and Members of Different Professions That Involve Group, Individual, Quantitative and Qualitative Assessment.

# PSYCHOLOGY

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Research Area Keywords	Multisensory Cognition; Spatial Cognition; Vision; Haptics; Brain Stimulation.
Current Research Activities	Brain Stimulation and Human Cognition; Sensory Substitution For Spatial Representation; Eye-Tracking Studies on Attractiveness.

## PUBLIC POLICY

İZAK ATİYAS (FACULTY MEMBER)	
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Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My Current Research Areas Are Competition Law and Policy, Regulation in Telecommunications and Electricity Industries, and Privatization. In The Field of Competition Law, I Am Currently Conducting A Tubitak-Sponsored Project On The Examination of Competition Board Decisions From The Perspective of Law and Economics. The Decisions of The Competition Board Are Examined With Two Objectives in Mind: The First Is To Evaluate The Extent and Sophistication of Economic Analysis They Contain. The Second Is To Compare Them With The Decisions Undertaken in The Application of Competition Law in The European Union. In The Field of Regulation, I Am Studying The Interaction Between Ex-Ante Regulation and Ex-Post Enforcement of Competition Law In The Telecommunications Industry. In Electricity Regulation, I Am Writing A Paper on The General Assessment of Restructuring in The Electricity Industry in Turkey. In Privatization, I Have Recently Published A Book Chapter On The Assessment of The Recent Privatization Experience in Turkey.</i>

## PUBLIC POLICY

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Research Area Keywords	<i>Applied Microeconomics; Labour Economics; Migration; Education.</i>
Current Research Activities	<i>Abdurrahman Aydemir's Research Focuses on Immigration, Education, and Intergenerational Mobility. He Is Currently Working on A Number of Projects That Investigates The Role of Ethnic Networks on Human Capital Investments, The Labor Market Outcomes of Turkish Immigrants Across Europe, and The Impact of The Change in Compulsory Schooling Laws on Educational Attainment and Labor Market Outcomes In Turkey.</i>

MEHMET BAÇ (FACULTY MEMBER)	
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Research Area Keywords	<i>Microeconomics; Industrial Organization; Law and Economics.</i>
Current Research Activities	<i>Recent Papers Focus on The Following Topics: (A) Theoretical Analysis of The Interaction Between The Defensive and Offensive Demands For Guns, Optimal Gun Control Policies; (B) The Equilibrium Analysis of Opinion Expressions Under Social Sanctions Imposed By The Majority, Dominant, Culture, (C) Emergence of Old-Boy Networks of Entrepreneurs and Their Welfare Effects (With Ereninci), (D) Prohibition Policies When Goods Can Be Offered As Bribes and Gifts.</i>

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Research Area Keywords	Economic Growth; Productivity Dynamics; Examination of Effects of Inflation on Real Economy; Applied Macroeconomics.
Current Research Activities	He Is Currently Involved in Four Projects. The First One Is A Continuation of His Earlier Research and Investigates Whether The Law of One Price Holds in Turkey. Second Research Item He Pursues Is About Regional Income and Consumption Distribution. Over The Last 15 Years Turkey Has Been Through Many Crises, and There Is A Common Belief That There Are Significant Regional Disparities in Income and Consumption. He Is Analyzing The Extent and Nature of The Inequalities and Their Dynamics. Third Project Prof. Filiztekin Works On Examines Success in Secondary Education in Turkey. The Main Question Of His Research Is Whether Different Types of Secondary Education Institutions Have Differential Impact on Students' Success. Finally, He Is Involved in A Research That Is A Subject of A Different But Related Field, Namely Marketing. He With His Coauthor Examines The Changing Market Structure and Store Choice of Consumers in Retail Food Sector in Turkey. Urbanization Has Significantly Changed The Way People Do Shopping, and The Entry of Multinational Firms Following Rapid Globalization Increased Modernization in Turkey. The Question of His Research Is Then How Markets, Consumers and Competition, Have Responded To These Changes.

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Research Area Keywords	Applied Microeconomic Theory (Public Economics, Urban Economics, and Industrial Organization); and Economics of Entrepreneurship.
Current Research Activities	Ereninci's Recent Research Projects Are Concentrating Primarily on Two Topics: Economics of Entrepreneurship and Economics of Parking. His Work in Entrepreneurship Has Focused on It From An Occupational Choice Perspective To Answer Who Become Entrepreneurs From Which Particular Wealth Classes. He Has Contributed To The Analysis of Public Policies To Improve The Quality of Entrepreneurs in The Presence of Informational Constraints on Behalf Of Both Financiers and Policy Makers. His More Recent Work Ramifies Into Two Branches. On The One Side, He Has Analyzed Entrepreneurs' Financing Choice Between Debt- and Equity-Based Instruments When Equity Providers Take Certain Amount of Control in The Ventures That They Are Financing, Which Is Particularly Relevant For Venture Capital Agreements. on The Other Side, He Has Examined The Effects of Social Ties and Informal Networks on The Price of Loans To Entrepreneurs and on Their Incentives To Invest in Themselves and Innovative Start-Up Projects. Dr. Inci's Research in Economics of Parking Considers Optimal Pricing of and Land Allocation For Parking. He Has Analyzed Cruising For Parking in Downtown Areas in Order To Come Up With Policies To Mitigate Traffic Congestion. He Also Modeled The Evolution of Downtown Parking and Traffic Congestion To Different States in Time To Understand How and Why Catastrophic Transitions To Hypercongested Traffic Occur. His Most Recent Work Focuses on Pricing of Parking in Shopping Malls, Which Is Mostly Provided Free All Over The World. In This Context, He Provides The Theoretical Foundations of Minimum Parking Requirements, and As Opposed To The Common View, He Shows Why Embedding Parking Fees Into The Price of Goods Sold in The Mall May Be Socially Optimal.

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Research Area Keywords	Applied Microeconomics; Industrial Organizations; International Trade.
Current Research Activities	Esra Durceylan Kaygusuz's Research Mainly Focuses on Firms' Behaviour in Competitive Markets. Understanding Firms' Investment, Employment, Research and Development Activities, Exporting Decisions and the Factors That Motivate and Affect Those Allows Her To Make Policy Relevant Recommendations As Well. Recently, Her Research Focuses on Answering Questions Like: "If Governments' Aim Is To Foster The Manufacturing Sector Both in Terms of Productivity and Exporting, Should They Subsidize The Education of MBA's or Scientists?" or "Can Operational Figures Like Inventory Behaviour Signal Bankruptcy Before The Well Used Financial Statements?" or "Do Managers in Financial Crisis Times Get Unfairly High Wages? Do Manager's of Small Firms Compared To Larger Firms Work Harder When They Face More Competition?"

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Research Area Keywords	Globalization; Democratization; Turkish Politics; International Relations Theory.
Current Research Activities	Fuat Keyman Is Actively Involved in Research on Globalization Processes and Their Impact S on Turkey, Particularly Its Democratization, Its Socio-Economic Transformation, As Well As Its Foreign Policy. In Doing So, He Has Produced Work on Turkey-Eu Relations, Turkey'd Transformation, and Turkish Foreign Policy, and Turkey's Accession Process. He Authored Many Books and Articles on These Topics, The Most Recent of Which Are: Symbiotic Antagonisms: Competing Nationalisms in Turkey (Utah University Press); Turkey's Transformation and Democratic Consolidation (Palgrave Macmillan); Cities: Urban Transformation in Turkey (Doğankıtap). He Has Finished The Framework 7 European Project: Enacting European Citizenship, and Carrying on A Tubitak Research on Urban Transformation in Turkey: İzmir, Kayseri, Diyarbakır, and Trabzon.

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Research Area Keywords	Macroeconomics; Public Finance.
Current Research Activities	Hakkı Yazıcı's Primary Fields of Research Are Macroeconomics and Public Finance. Currently, He Is Especially Interested in Optimal Education Policy. He Is Working on How To Design Public Programs To Provide Equality of Opportunity For Children From Poor Families With Prof. Nicola Pavoni of University College London and Tommy Leung of Chineseuniversity of Hong Kong.

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Research Area Keywords	<i>20<sup>th</sup> Century Turkish Nationalism and Its Historiography; Studies from Comparative Perspective of Social and Economic History and European Medieval History; the Construction of Turkish National Memory.</i>

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Research Area Keywords	<i>History of Ottoman Slavery, Modern State Construction in the Late Ottoman Empire; Repercussions of the Greek War of Independence in the Ottoman Empire; Introduction of the New Conscript Army, Transformation of Ottoman Political Language and Culture.</i>
Current Research Activities	<i>A Documentary History of The Greek Revolution From The Ottoman Archives (Book); Selim iii: The Sultan With Two States (Book); Magic, Theft and Arson: The Life and Death of An Enslaved African Woman in Ottoman Izmit (Article / Book)</i>

**ERSİN MAHMUT KALAYCIOĞLU (FACULTY MEMBER)**

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Research Area Keywords	<i>Political Representation, Political Participation, Voting Behavior.</i>
Current Research Activities	<i>Kalaycioğlu Currently Composes A Report on The National Representative Survey of Voting Age Population in Turkey on Social Inequality, The Field Survey of Which Had Been Completed Between October and December 2009. Social Inequality 2009 Survey Was Conducted As Part of The Annual Survey of The International Social Survey Program (Issp) in 2009, and Financially Sponsored By TUBITAK. He Is Also Preparing A National Survey of Attitudes and Values Concerning The Environment, The Field Survey of Which Will Be Conducted By Late Summer and Early Fall of 2009, Environment 2010 Survey Will Also Be Conducted As Part of The Annual Issp Surveys of 2010 and Will Also Be Sponsored By TUBITAK.</i>

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Research Area Keywords	<i>Turkish Political History; Turkish Foreign Policy; Historical Writing and Methodology.</i>
Current Research Activities	<i>Turkish Political History; History of Turkish Foreign Policy (Turkish-American Diplomatic Relations After Second World War); Historiography; Methodology of The Discipline of History.</i>

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Research Area Keywords	<i>Peripheral Populations in the Ottoman Empire; Relationship between Center and Periphery; History of Ottoman education; Gender Issues during the Ottoman Reform Period.</i>
Current Research Activities	<i>Ottoman Educational Policies in Syria; Historical Statistics of Istanbul; Biographies of Ottoman Bureaucrats.</i>

LANFRANCO ACETI (FACULTY MEMBER)	
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Research Area Keywords	<i>New Media; Digital Culture; Virtual Reality Environments; Contemporary History of Art and Curatorial Studies.</i>
Current Research Activities	<i>His Current Research Focuses on The Cultural Relationship Between Online Actions and Behaviors, Intervention in Public Spaces and New Media Platforms, and Issues Related To Transmediation and Remediation of Content Across Different Platforms in Different Cultures. In Particular in The Field of Museum Studies He Is Interested in The Contextualization of New Media Artworks in Relation To Technological, Historical, Conceptual and Cultural Frameworks. He Is Currently Analyzing A Series of Issues of Transculturalism and Interculturalism in Contemporary Art in The Processes of Representation of Identity.</i>

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Research Area Keywords	<i>Visual arts; Painting; Sculpture Photography Installations; Visual Literacy; Foundations Studies in Visual Art and Visual Communication.</i>
Current Research Activities	<i>Site-Specific Installations With A Particular Broad Approach To The Notion of Site That Allows Political, Sociological and Psychological Aspects of 'Site' Integrated Into The Installation, Unbound From The Mere Physical or Visual Characteristics. Current Work Also Involves 3-D Modeling of Sculpture Drawings That Will Not Be Produced, To Be Exhibited in Modeled 3-D Museums That Do Not Exist.</i>

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Research Area Keywords	<i>Sound Design, Digital Art, Interactive Design, Physical Computing, Sonic Arts, Contemporary Art.</i>
Current Research Activities	<i>Currently He Is Working on An Online Web Research Project Which Is Based on 3D Interactions With Sounds That Are Submitted By Online Participants. Consequently, He Is Working on A Research Project For A Theater Performance Collaborating With Artists and Producers From Germany.</i>

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Research Area Keywords	<i>Computer Science/Art &amp; Design Hybrids, Visual Art, Design (Graphic Design), Metaverse (And Other 3D Virtual Worlds), Avatar, Virtual Identity, (Electronic) Art Education.</i>
Current Research Activities	<i>1) Phd Candidate Writing Dissertation At The Planetary Collegium Studying With Roy Ascott, Plymouth University, Uk (Thesis Subject: The Design of An Art Educational Strategy To Be Implemented in A Metaverse). 2) Extensive Artistic As Well As Research Activity in Second Life. (<a href="http://Syncretia.wordpress.com">http://Syncretia.wordpress.com</a> , <a href="http://Alphatribe.tumblr.com">http://Alphatribe.tumblr.com</a> ) 3) Editor in Chief of Forthcoming Academic Journal "Metaverse Creativity" (<a href="http://Www.intellectbooks.co.uk/Journals/View-Journal,Id=179/">http://Www.intellectbooks.co.uk/Journals/View-Journal,Id=179/</a>).</i>

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Research Area Keywords	<i>Painting; Sculpture; Installation; Video; Photography; Performance in Art; Exhibition Organization.</i>
Current Research Activities	<i>'Cabinet' As Artist Studio, 'Flaneurie' and 'Rhizome' As Being, Interactions With The Visitor, Play, Use of Multi Disciplinary Creation Language As Medium, Human Movement Thru The History Due To Social, Economic, Ecologic, Conflicts Reasons. What Do They Drain, The Remains, The Traces, From A Personal View Point Are Subjects To My Current Research Domains.</i>

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Research Area Keywords	<i>Photography; Visual Communication Design; Information Design; Interface Design; Architecture; Virtual Environments; Virtual Architecture; Art; Art Theory.</i>
Current Research Activities	<i>Current Research Topics and Paper / Article Titles Include: "Content Creation and Propagation: Tools For Subjective Hegemony", "Using 2D Photography As A 3D Constructional Tool Within The Second Life Environment", "Chronophotography" (Time Dependent Narrative Photography), "Redesigning Architecture Through Photography", "Inadvertent - Arsaccidentalis" (Accidental Digital Art), "Looking Aside: Collective Constructs, Autarchic Assemblage". I Have Presented At Several Seminars, Symposia and Conferences Like Siggraph, Isea2009, Mutamorphosis, Towards A Science of Consciousness, Cae 2008-9, Cac2, Eva-London'08, Ecaade, Ascaad.</i>

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Research Area Keywords	<i>Nationalism; Modernity; Cultural Policy and Cultural Politics; TheArtworld, EU Integration.</i>
Current Research Activities	<i>My Research Is Located At The Intersection of Studies on Nationalism and Modernity, Cultural Policy and Cultural Politics, Visual Anthropology and The Artworld. It Explores How Art and Other Kinds of Aesthetic Expression Are Made Productive in An Array of Political Projects; How They Present A Realm of Governance As Well As A Potential Challenge To This Very Governance. Currently, I Am Working on A Research Project That Examines The Role of Art and Aesthetics in Political Reconciliation Processes. The Study Maps The Historical Context in Which Art Has Been Ascribed The Potential For Generating Empathy and The Emergence of The Concept of Historical Empathy As A Didactic Tool, While Also Exploring How Cultural Producers and Consumers Assess The Affective Impact of Art in Reconciliation Efforts. A Second Project That I Am Conducting, Documents The Modalities of and Fall-Outs From Istanbul's 2010 European Capital of Culture Tenure. This Includes Interrogating The Different Interests and Political Agendas That Are Articulated By Referencing 'The Idea of Europe' in The Context of The Cultural Capital Initiative, and Examining The Organizational and Bureaucratic Shifts and Challenges That Have Accompanied The Implementation of The Program.</i>

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Research Area Keywords	<i>Late Classical and Byzantine Art and Architecture; 19th-Century Art and Architecture of Southeastern Europe; Archaeological Methodology; Art History; Art Theory.</i>
Current Research Activities	<i>Bratislav Pantelic Is An Art Historian Who Specializes in The Art and Architecture of Southeastern Europe. He Has Published on Late Classical, Byzantine and Medieval Art and Architecture. In His Most Recent Works He Has Ventured Into The Modern Age To Concentrate on Issues Relating To The Visual Arts, Nationalism and Identity. His Focus Is on The Past - How The Past Has Been Perceived and In Particular How Perceptions of The Past and Notions of Heritage and Cultural Belonging Are Used in Identity Construction and Eventually To Influence Political Action.</i>

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Research Area Keywords	<i>Typography, Type Design, Information Design, Mixed Media Illustration, Graphic Design.</i>
Current Research Activities	<i>Currently Working on A Contemporary Sanserif Type Design Which Supports Central and Eastern European Languages For Continuous Typesetting. The Type Is Accompanied By A Series of Alternative Forms, Which Boosts Readability in Turkish Typesetting As Well As Other Diacritic Marks Found in Other Latin Alphabets. The Type Takes Its Historical Reference From The Humanist Forms of The Renaissance Time Period and Synchronizes Them With The Contemporary Digital Screen Technology For Optimum Legibility.</i>

WIESLAW ZAREMBA (FACULTY MEMBER)	
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Research Area Keywords	<i>Teaching of the Arts; Drawing; Painting; Mechanical Media; Lithography.</i>
Current Research Activities	<i>My Research Activities Are Currently Focused on A Few Different Fields Thanks To The International Teaching Experience I Had At Gdansk State Academy of Fine Arts in Poland and Bilkent University and For Last 10 Years At Sabanci University In Turkey. Since 2003 I Have Been Cooperating With Some American, Italian, Malaysian and Singapore Universities and Visiting These Countries By Taking Part in International Group Exhibitions As Well As Workshops and Conferences. Having Gained A Multidisciplinary Approach and Methods in Teaching of Arts, I Have Been Currently Continue My Researches From Visual Arts &amp; Visual Arts Design To Stage Performing Arts and Psychology and Have Been Excavating New Things and Following The Updated Informations In These Fields. As A 'Learning' Instructor I Have Also Been Focusing on The Other Fields of Our Visual Arts And Visual Communication Dept. At Su and Improving My Skills in Design and Photography During Last 10 Years. I Have Been Investing on Photography Cameras and The Technical Equipment For Last 4 Years and Have Been Doing My Own Researches. Photography Always Takes Part in My Artistic and Teaching Activities and I Also Design All My and Students' Exhibitions Posters By Myself Thanks To My Works on Computer Design and Photoshop Programs. I Also Give My Students Photography Tasks and Encourage Them To Combine Photography and Video Together With Their Painting and Drawings. I Provide My Students A Theater Atmosphere With Lighting and Posing Models in The Studio and Organize A Series of Lectures Given My Ms. Meralçulha, Psychology Advisor At Su, Regarding 'Face Expressions' Every Year While I Teach Them How To Draw Portraits.</i>

YOONG WAH ALEX WONG (FACULTY MEMBER)	
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Research Area Keywords	<i>3D Animation (Games and Movies); Video and Photography; Motion Graphics; Digital Art and Design.</i>
Current Research Activities	<i>His Current Research Topic Include "Non Photo Realistic Character Transformation and Morphing" For Movie, Game and Education Purposes. on Top of That, He Has Been Active in Photography For The Past 15 Years. He Received Numerous Honors From International Photography Award (Ipa), Px3 Award, The Spider Award, World Photographic Arts Award, Worldwide Photography Gala Award and Etc. He Is A Regular Editor/Photographer To Photo Creator Publication and Guest Speaker To Malaysianationalartgallery For Photography Seminar Since 2004. His 2009 - Recent Exhibit Is Being Showcase in Nikon Ginza Gallery, Tokyo and Museum of Higasnikawa, Hokkaido – Japan, Farmani Gallery, New York and Desotorow Gallery, Savannah, Georgia – Usa, Escape Dupon Gallery, Paris – France, Earl Lu Gallery At Lasalle College of Arts – Singapore, Annexe Gallery and Wei Ling Gallery, Kuala Lumpur – Malaysia and Sabanci University/Fass Art Gallery, Istanbul – Turkey.</i>



# FENS

FACULTY OF ENGINEERING AND NATURAL SCIENCES

ENGINEERING AND  
NATURAL SCIENCES

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Research Area Keywords	<i>Computer Graphics; Virtual Reality; Augmented Reality, Data Visualization, Visual Analytics and Cultural Heritage</i>
Current Research Activities	<i>Dr. Selim Balcisoy Received His Phd on Computer Science in 2001 From Swiss Federal Institute of Technology, Lausanne (Epfl). Between 2001 and 2004 He Was Senior Research Engineer At Nokia Research Center Dallas. Dr. Balcisoy Co-Authored Over 50 Publications and Has Been Granted With One U.s. Patent. His Research Interests Are Augmented Reality, Data Visualization and Cultural Heritage. He Is An Associate Professor At Sabanci University, Istanbul Since 2004 and Founded Visiothink, A Spatial Business Intelligence Company in 2006.</i>

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Research Area Keywords	<i>Artificial Intelligence; Knowledge Representation and Reasoning; Cognitive Robotics.</i>
Current Research Activities	<i>Our Group Focuses on Research in The Areas of Artificial Intelligence, Knowledge Representation and Reasoning, and Cognitive Robotics Along Two Lines: on The Mathematical Foundations and Their Applications (E.g., Biomedical Informatics, Computational Biology, Semantic Web, Multi-Agent Path Planning, Service Robotics, Cognitive Factories, Rehabilitation Robotics).</i>

**KEMAL İNAN (EMERITUS PROFESSOR)**

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Research Area Keywords	<i>Computer Science; Control Theory.</i>
Current Research Activities	<i>Social Impact and Basic Limits of Automation Technologies.</i>

**KAMER KAYA (FACULTY MEMBER)**

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Research Area Keywords	<i>High-Performance Computing; Parallel Algorithms; Graph Algorithms; Task Mapping and Scheduling; Cryptography.</i>
Current Research Activities	<i>Dr. Kaya Is Currently Working on Developing Efficient Parallel Graph Algorithms and Their Applications To Social Network Analysis. In Addition, He Has Been Working on Distributing The Tasks of Complex Applications on The Nodes of Supercomputers in A Way That The Computational Loads on The Nodes Are Balanced and The Intra-Task Communications Are Minimized.</i>

**ALBERT LEVI (FACULTY MEMBER)**

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Research Area Keywords	<i>Information and Network Security; Wireless System Security; Certificate Systems and Public Key Infrastructures; E-commerce Security; Application Layer Security Protocols; Data Privacy.</i>
Current Research Activities	<i>Dr. Levi's Recent Research Mostly Focus on Development Of Efficient and Privacy Preserving Communication Frameworks For RFID Systems, Mesh Networks, Manets and Sensor Networks; Design and Analysis of Email Security Protocols; Security Analysis of Various Existing Secure Systems; Development of Secure E-Commerce and E-Payment Schemes. Dr. Levi's Research Is Funded By Tübitak and Türk Telekom.</i>

**HASAN SAİT ÖLMEZ (FACULTY MEMBER)**

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Research Area Keywords	<i>Theoretical and Numerical Hydrodynamics; Experimental Hydrodynamics; Numerical Techniques in Nonlinear Wave Mechanics; Hydrodynamic Aspects of Yacht Design, Hull Design in High-Speed Boats, Computer Networks and Network Security.</i>

**CENGİZ ÖRENCİK (POSTDOC)**

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Research Area Keywords	<i>Applied Cryptography, Data Security, Privacy Preserving Data Mining, Privacy in Biometrics.</i>
Current Research Activities	<i>Privacy Preserving Data Mining Techniques Over Encrypted Data.</i>

**ERKAY SAVAŞ (FACULTY MEMBER)**

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Research Area Keywords	<i>Cryptography and Security, Computer Arithmetic, High Performance Computing, Distributed Computing.</i>
Current Research Activities	<i>Security and Privacy in Embedded Systems, Privacy-Aware Security Systems, Private Information Retrieval, Privacy-Preserving Data Mining, Trusted Computing.</i>

**YÜCEL SAYGIN (FACULTY MEMBER)**

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Research Area Keywords	<i>Data Mining, Spatio-Temporal Data Management, Privacy Preserving Data Mining, Privacy Preserving Data Publishing.</i>
Current Research Activities	<i>Data Mining and Privacy Aspects of Data Mining, Ubiquitous Knowledge Discovery and Spatio-Temporal Data Mining, Privacy Preserving Distributed Mining of Spatio-Temporal Data, Anonymization of Moving Object Trajectories.</i>

**BERRİN YANIKOĞLU (FACULTY MEMBER)**

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Research Area Keywords	<i>Biometrics, Document Recognition, Plant Recognition, Machine Learning, Pattern Recognition.</i>
Current Research Activities	<i>Dr. Yanıkoğlu Works in The General Areas of Computer Vision and Machine Learning With Applications in Biometrics, Document Recognition and Retrieval, and Plant Image Recognition. Together With Her Students, They Have Developed Award Winning Signature Verification Systems and Novel Biometric Template Protection Schemes. Her Research in Document Analysis Includes Handwriting and Sketch Recognition For English and Turkish and Document Retrieval.</i>

**HÜSNÜ YENİGÜN (FACULTY MEMBER)**

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Research Area Keywords	<i>Formal Methods; Hardware/Software Verification; Model Checking; Finite State Machine Based Testing.</i>
Current Research Activities	<i>Dr. Yenigün Has Been Working on Formal Aspects of Software Testing and Especially on Finite State Machine Based Testing. Typically, The Work in This Field Is of Theoretical Nature and Based on Some Computationally Expensive Graph Theoretical Problems. Therefore, The Development of Heuristic Algorithms To Solve These Problems and Investigating Interesting Special Cases Where Polynomial Time Algorithms Can Suffice Are Within The Research Scope of Dr. Yenigün's Group.</i>

**CEMAL YILMAZ (FACULTY MEMBER)**

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Research Area Keywords	<i>Software Engineering, Software Quality Assurance, Program Analysis.</i>
Current Research Activities	<i>Dr. Yilmaz's Current Research Activities Include, but Not Limited To, Combinatorial Interaction Testing, Systematic Testing of Multithreaded Applications, Automated Debugging, and Runtime Failure Prediction. Dr. Yilmaz Is Currently Developing Innovative Solutions For These Problems (and Many Others) With A Special Focus on The Practicality of His Research.</i>

**AYHAN BOZKURT (FACULTY MEMBER)**

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Research Area Keywords	<i>VLSI Design for Analog/Digital Sensor Interfaces, Microelectromechanical System (MEMS) Modeling and Design, Medical Instrumentation (Sensor and Sensor Interface Design), Acoustic Microscopy (Material Characterization, Lens Design).</i>
Current Research Activities	<i>Front-End Electronics Design For Ultrasonic Imaging and Therapeutics. Micromachined Ultrasonic Transducer Design For Intravascular Ultrasound (IVUS) and High-Intensity Focused Ultrasound (HIFU) Applications. Transducer Modeling.</i>

**MÜJDAT ÇETİN (FACULTY MEMBER)**

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Research Area Keywords	<i>Statistical Signal and Image Processing, Inverse Problems, Computer Vision, Radar Imaging, Biomedical Information Processing; Brain Computer Interfaces, Wireless Sensor Networks, Data Fusion, Sensor Array Signal Processing.</i>
Current Research Activities	<i>Dr. Çetin's Current Research Activities Are Focused Around The Following Problems and Themes: (1) Sparse Signal Representation and Compressed Sensing With Application To Inverse Problems in Imaging Including Radar and Biomedical Imaging; (2) Signal Processing and Pattern Recognition Methods For Electroencephalography (Eeg) Based Brain-Computer Interfaces; (3) Statistical Methods For Image Segmentation With Application To Magnetic Resonance Imaging of The Brain; (4) Computer Vision and Machine Learning Techniques For Automatic Facial Expression Analysis With Application To Driver Drowsiness Detection; (5) Communication-Constrained Data Fusion and Statistical Inference in Sensor Systems and Networks With Application To Multi-Target Multi-Sensor Tracking. Dr. Çetin Has Recently Led and Been Involved in Numerous National and International Research Projects Focusing on These Themes.</i>

**ÖZGÜR ERÇETİN (FACULTY MEMBER)**

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Research Area Keywords	<i>Wireless Networks, Multimedia Streaming, Security and Privacy, Energy Efficiency, Internet of Things, and Control of Stochastic Systems.</i>
Current Research Activities	<i>Prof. Erçetin's Research Interests Are Understanding The Interplay Between Different Layers of Communications Networks For Improving Future Information and Communications Technologies. His Past Work Addressed A Number of Research Areas Including Network Economics, Satellite, Sensor and Wireless Mesh Networks, Cognitive Radio Networking, Green Communications, Multimedia Streaming and Control of Networks With Physical Layer Security. His Expertise Lies in Using Game Theory, Stochastic Optimization Theory, and Simulation For Developing and Analyzing Provably Optimal Cross-Layer Network Protocols For Wired and Wireless Networks and Applications.</i>

**AYTÜL ERÇİL (NETWORK FACULTY MEMBER)**

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Research Area Keywords	<i>Invariant Object Recognition, Implicit Polynomial Models, Texture Analysis; Statistical Pattern Recognition, Use of Machine Vision in Manufacturing Automation, Biometrics; Facial Expression Analysis.</i>
Current Research Activities	<i>Current Research Activities Include Developing Techniques For Automated Visual Monitoring of Patients and Elderly People (Especially People With Alzheimers Disease) Living in Nursing Homes or in Their (Assisted) Home Environments. Another Current Research Activity Involves 3D Scanning of Specular Surface Using Thermal Imaging.</i>

**HAKAN ERDOĞAN (FACULTY MEMBER)**

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Research Area Keywords	<i>Speech Separation and Recognition, Biometrics, Sparse Signal Recovery, Object Recognition, Speaker Recognition, Machine Learning for Multimedia, Optimization Algorithms For Signal Processing.</i>
Current Research Activities	<i>Dr. Erdogan's Recent Work Includes Speech Enhancement and Audio Source Separation Using Nonnegative Matrix Factorization and Deep Neural Networks, Speaker Verification Using Deep Neural Networks, Sparse Signal Recovery Using Search Based Techniques, Biometric Hashing and Improving Security and Privacy of Biometrics, Optimization Algorithm Development For Machine Learning and Signal Processing, Object Recognition and Clustering in Video Surveillance Systems and Word Embeddings and Their Uses in Natural Language Processing and Speech Applications. Dr. Erdogan Is Generally Interested in Application of Machine Learning Techniques For Signal Processing Related Problems.</i>

**ÖZGÜR GÜRBÜZ (FACULTY MEMBER)**

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Research Area Keywords	<i>Wireless Networks, Medium Access Control, Resource Allocation, Scheduling, Cross Layer Design.</i>
Current Research Activities	<i>Dr. Gürbüz's Research Interests Are in The Field of Wireless Communications and Networks, in Particular Medium Access Control, Radio Resource Management, Cross Layer Design, Design of Wireless Networks With Mimo and Smart Antennas and Cooperative Communications and Networks. Applications of Her Work Involve Practical Network Architectures, Such As Wireless Mesh Networks and Wireless Sensor Networks. Ongoing and Some Recent Projects Are "Cooperative Diversity Architecture For Wireless Sensor Networks", Which Is A Career Award Funded By The Scientific and Technical Research Council of Turkey, "New Technologies To Avoid Digital Division In E-Divided Areas", Funded By European Commission 6<sup>th</sup> Framework Program, "Wireless Mesh Networking", Funded By Airties Wireless Networks and "Medium Access Control For Very High Data Rate (802.11N) Wireless Lans", Funded By Cisco Systems University Research Program.</i>

**YAŞAR GÜRBÜZ (FACULTY MEMBER)**

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Research Area Keywords	RF, Microwave & Millimeter-wave Integrated Device, Circuits and Systems, Analog and Mixed-Signal Integrated Circuits and Systems, Sensors and Actuators, Micro-Electro-Mechanical Systems (MEMS).
Current Research Activities	<p>1) Rf / Microwave / Millimeter-Wave Integrated Devices, Circuits and Systems: Design and Fabrication X-Band (8-12 Ghz ) Phased-Array Transceiver Module For Radar Applications : Sige Bicomos Process Technology Is Being Implemented To Realize X-Band Transmitter/Receiver (T/R) Front-End For Phased Array, Radar Applications. T/R Module Consists of Phase Shifter, T/R Switches, Lna and Pa Sub-Blocks and Involves Rf Integrated System / Circuit / Device Design, Fabrication, Test / Measurement Competence. F Band (94 – 140 Ghz) Passive Radar For Thz Imaging Applications: Sige Bicomos Process Technology Is Being Implemented To Realize 94-140 Ghz Receiver Front-End For Passive Imaging Radar Applications. Receive Module Consists of Lna, Rf Mems Switch, Detector and Baseband Circuitry and Involves Millimeter-Wave, Microwave and Rf Integrated Devices, Circuits and Systems Design, Fabrication, Test / Measurement Competence.</p> <p>2) Analog and Mixed-Signal Integrated Circuits and Systems Large-Array Sensor Readout Circuitry: Signal Readout, Control and Conditioning Circuits For Large-Array Sensor/Detector Systems, Such As 1024X1024, 640X480 Ir Imaging Systems, Etc., Being Developed Using Cmos Technology and Analog / Digital (Mixed-Signal) Integrated Circuits / System Design and Implementation Competence.</p> <p>3) Biological and Chemical Sensors, Actuators and Mems Development of A Biosensor Platform (Lab-on-Chip): An Electronic Lab-on-Chip, Biosensing Platform Is Being Developed. The Biosensors Composed of Capacitive Transducers and Amperometric Electrodes, Electronic Readout Circuitries, and/or on-Chip Transmitter, and A Signal Processing and Conditioning Circuitry. The Platform Is Aimed At Applications of The Early Monitoring and Diagnosis of Life Threatening Diseases Such As Cancer and Cardiovascular Diseases. The Platform Is Also Applicable For The Detection / Quantification of Biological and Chemical Warfare Agents. Mems Research Activities Involves Development of Integrated Circuit Compatible Rf Mem Devices: Switch, Voltage Controlled Capacitor, Etc. A Succesfull Implementation of This Research Have Led To A Rf Mems Switch Offered in A Standard Sige Bicomos Process. Application oOf This Siwtch For Different Frequency Range Is Our Current / Active Area of Research, Involving Design, Fabrication and Testing Aspects.</p>

**İLKER HAMZAOĞLU (FACULTY MEMBER)**

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Research Area Keywords	Low Power Digital Hardware Design for Video Processing and Compression, System-on-Chip (SoC) ASIC and FPGA Design, Embedded System Design, Computer-aided Design and Test for Digital VLSI Circuits.
Current Research Activities	Low Power Hvc Video Compression Algorithm and Hardware Design, Low Power H.264 Multiview Video Compression Algorithm and Hardware Design, High Performance Image Demosaicing Hardware Design, Hardware/Software Co-Design For Video Processing and Compression, Video Processing and Compression Hardware Design With High Level Synthesis.

**SÜMEYRA ÜMMÜHAN DEMİR KANIK (POSTDOC)**

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Research Area Keywords	Digital Signal and Image Processing, Biomedical Image Processing, Pattern Recognition, Machine Learning, Data Mining.
Current Research Activities	<p>1) Automated Analysis of Microscopic Neuron Images</p> <p>2) Electroencephalography (Eeg) Based Brain-Computer Interfaces</p>

**HÜSEYİN KAYAHAN (POSTDOC)**

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Research Area Keywords	Analog Mixed Mode Circuit Design, Sensor Interface Design, Analog/Digital Readout Integrated Circuit Design for IR sensors, ADC Design.
Current Research Activities	Current Research Focuses on Analog and Mixed-Signal Integrated Circuits and Sensor Interface Circuits: Process Voltage and Temperature Invariant Low Power Analog Circuit Design, Low Power Adc and Low Voltage Differential Signal Interfaces, Design of Readout Integrated Circuits For Infrared Sensor Arrays For Very Large Array Size (1024X1024) And High Frame Rates (400Hz) and Cryogenic Operation (Lwlr, 77K). Current Research Focuses On Design Approaches For Digital Readouts With Extreme Charge Handling Capacity and Low Power Operation To Achieve High Imaging Quality Especially For Portable Infrared Imaging Systems. Another Focus Is on Design of Extremely Low Power Adcs That Are Implemented in Array Format in Various Interface Circuits.

**MEHMET KESKİNÖZ (FACULTY MEMBER)**

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Research Area Keywords	Wired and Wireless Digital Communications, Multimedia and Biometric Security, Information Hiding, Information and Data Fusion, Soft-Decodable Error Correction Codes.
Current Research Activities	One of Dr. Keskinöz's Research Interests Is To Design Robust Physical and Link Layer Algorithms For Wired and Wireless Digital Communications Systems Including Uwb Communications, Ofdm Uwb Systems, Wireless Mesh Networks, Dsl, Magnetic and Optical Data Storage Systems, Distributed Detection and Data Fusion For Wireless Sensor Networks. His Another Interest Is Data Processing and Coding For Information Hiding and Security Including Multimedia and Biometric Security, Fuzzy Vaulting, Stenography, Public and Private Watermarking, Biometric Hashing. He Also Conducts Research For Iterative Soft-Decodable Codes Such As Turbo and Ldpc Coding and Their Implementations . He Is A Recipient of Turkish Nsf Research Grant on Distributed Detection In Wireless Sensor Networks and Career Award on Wireless Mesh Networks.

**MERİÇ ÖZCAN (FACULTY MEMBER)**

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Research Area Keywords	Optics, RF & Microwaves, Quantum Electronics.
Current Research Activities	Digital Holography, Holographic Imaging, Ultrafast Imaging, Microwave Plasma Generation.

**VOLKAN ÖZGÜZ (SUNUM DIRECTOR)**

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Research Area Keywords	Microelectronics and Nanotechnologies, 3D Integration and Packaging, Microsystems and Nano Systems, Integration of Heterogeneous Systems.
Current Research Activities	Integration of 3D Technologies and Nanotechnologies, Low Power System Implementation Using 3D Integration and Nanoelectronics, Nano To Micro and Macro Interfaces and Nano-Packaging, Miniaturization For Wearable Implantable Biomedical Systems; Cognitive Systems Using Neuromorphic Approaches, Memory-Augmented Processing For High Productivity Computing and Communication.

**İBRAHİM TEKİN (FACULTY MEMBER)**

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Research Area Keywords	Antenna Design, RF Circuit Design, Propagation Modeling, Numerical Methods in Electromagnetics, Geolocation; Algorithms in Wireless Communication Systems.
Current Research Activities	1) Accurate Indoor Gps Positioning System Using Multiple Rf Repeaters and Gps Directional Antennas. Experience To Be Gained: Rf Circuit Design, Antenna Design, Rf Test/Measurement. 2) Reconfigurable Dual Band Microstrip Patch Antenna For Software Defined Radio Applications. Experience To Be Gained: Antenna Design/Simulation, Rf Test/Measurement. 3) X-Band Tunable Lna and Novel Active Phase Shifter Design For Phased Array Antenna Systems. Experience To Be Gained: Rf Simulation, Rf Design, Rf Test/Measurement.

**GÖZDE ÜNAL (FACULTY MEMBER)**

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Research Area Keywords	Medical Image Analysis, Computer Vision, 2D/3D Image Segmentation and Registration, Applications of Image and Shape Analysis to Clinically Relevant Problems in MR, US, CT, and Intravascular Imaging Modalities, Computer Vision, 3D Shape Analysis and Modeling, Variational and Probabilistic Techniques in Image Analysis.
Current Research Activities	We Currently Work on Two Main Themes: (I) Computational Neuroimaging: Our Tübitak 1001 and European Union Fp7 Marie Curie Projects, Involve Development of Mathematical Algorithms For Quantifying Changes in Brain Tumors When They Undergo Radiosurgery and Radiation Therapy Within The Theme of Cancer Treatment Monitoring. Our Clinical Partners in This Project Are Anadolu Medical Center, and Hacettepe University Hospital. A Second Project, Which Is A Bilateral Collaborative Project With Inria of France, Involves Diffusion Magnetic Resonance Imaging and Developing White Matter Tractography Algorithms To Study The Brain Connectivity and Relations To Neurological Disorders. (II) Cardiovascular Image Analysis: Within The Framework of Our Tübitak-Bmbf Intense Cooperation Grant, A Bilateral Collaboration Project With Technical University of Munich and Ludwig Maximilian University of Munich, Germany, We Develop Multi-Modal Cardiovascular Image Computing Methods, To Reconstruct and Analyze Human Coronary Arteries, For Studying Atherosclerosis Disease, Which Is A Major Cause of Heart Attacks. Our Local Clinical Partner in This Project Is Yeditepe University Hospital's Cardiology Department.

**ALİ RANA ATILGAN (FACULTY MEMBER)**

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Research Area Keywords	<i>Biological Physics and Systems Science.</i>
Current Research Activities	<i>We Identify Solvent Mediated Biomolecular Interactions and Their Communication Pathways on Different Time and Length Scales. We Focus on The Relationships Between Local Motifs and Global Patterns in Complex Networks With Arbitrary Degree Distributions. These Activities Find Technological Applications in Devising Molecular Machines and System Identification Tools.</i>

**BARIŞ BALCIOĞLU (FACULTY MEMBER)**

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Research Area Keywords	<i>Stochastic Models, Analysis of Queueing Systems, Production/Inventory Systems, Call Centers, Simulation.</i>
Current Research Activities	<i>Spare Part Provisioning, Static and Dynamic Prioritization in Queueing Systems.</i>

**Ş. İLKER BİRBİL (FACULTY MEMBER)**

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Research Area Keywords	<i>Operations Research, Mathematical Programming, Nonlinear Optimization, Data Science.</i>
Current Research Activities	<i>Parallel Nonlinear Optimization For Machine Learning, Algorithm Development in Large-Scale Mathematical Programming, Network Revenue Management.</i>

**ERHAN BUDAK (FACULTY MEMBER)**

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Research Area Keywords	<i>Manufacturing Processes and Equipment, Process Modelling, Monitoring and Control, Machine Dynamics and Mechanical Vibrations.</i>
Current Research Activities	<i>Mechanics, Dynamics and Stability of Parallel and Multi-Axis Machining Operations; Measurement and Modeling of Linear, Varying and Nonlinear Dynamics of High Speed Spindles (Rotors) Under Operating Conditions; Modeling of Micro Machining Process Dynamics and Stability; Identification, Modeling and Prediction of Process Damping in Machining Processes; Modeling of Contact and Friction in Metal Cutting; High Performance Machining of Aerospace Parts and Alloys; Stability of Cutting Under Nonlinear Effects; Computer Simulation of Broaching, Turning and Milling Processes.</i>

**KEREM BÜLBÜL (FACULTY MEMBER)**

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Research Area Keywords	<i>Mathematical Programming and Computational Optimization, Modeling and Analysis of Scheduling Systems, Airline Crew Scheduling.</i>
Current Research Activities	<i>Currently, My Research Is Evolving in Two Primary Areas. First, I Am Studying Machine Scheduling Problems Through Mathematical Programming Techniques, With A Focus That Is Shifting Towards Modeling Risk Under Uncertainty. Second, I Continue To Work on Both Novel Methodological and Practical Aspects of Decomposition Methods in Mathematical Programming and Computational Optimization.</i>

**BÜLENT ÇATAY (FACULTY MEMBER)**

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Research Area Keywords	<i>Production Planning; Transportation and Logistics Systems. Applied Optimization; Meta-heuristics.</i>
Current Research Activities	<i>Heuristic and Meta-Heuristic Approaches To Vehicle Routing Problems; Distribution and Transportation Problems With A Particular Emphasis on The External Costs Associated Mainly With Greenhouse Gas Emissions, Pollution, Congestion, Noise; Determination of The Protein Structure Through Nuclear Magnetic Resonance (Nmr) Structure-Based Assignments Using Mathematical Programming Techniques and Meta-Heuristics.</i>

**UMUT EKMEKÇİ (FACULTY MEMBER)**

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Research Area Keywords	<i>Technology and Innovation Management, Technology and Knowledge Transfer, Creative Thinking, National Innovation Systems and Policies, Innovation Management in Energy Sector.</i>
Current Research Activities	<i>(1) Governance of Innovation Networks in Emerging Technologies, (2) Designing Corporate Innovation Systems.</i>

**HANS FRENK (FACULTY MEMBER)**

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Research Area Keywords	<i>Stochastic Processes, Convex Analysis, Dynamic Programming, Applications of Techniques of Operations Research to Applied Problems (inventory control, maintenance, revenue management).</i>
Current Research Activities	<i>Stochastic Control Problems, Airline Revenue Management, Inventory Control Problems, Levy Processes.</i>

**MURAT KAYA (FACULTY MEMBER)**

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Research Area Keywords	<i>Supply Chain Contracting; Sales Channels Management; Game Theory and Experimental Economics Applications in Supply Chain Management.</i>
Current Research Activities	<i>Dr. Kaya's Current Research Focuses on Decision Making and Coordination Issues in Supply Chains. In Addition To Building Analytical Models of Decision Making, Dr. Kaya Is Also Testing The Validity of These Models Through Experiments With Human Decision Makers. As Such, He Is Involved With The Emerging Field of "Behavioral Operations Management". Dr. Kaya Is Currently Building Models and Conducting Experiments For Three Research Purposes: (1) To Develop Effective Dual Sales Channel Policies For A Manufacturer Who Sells Both Through An Independent Retailer and Also Directly To End Consumers; (2) To Identify The Behavioral Causes of The "Bullwhip Effect", Which Is A Major Source of Inefficiency in Supply Chains; (2) To Study The Validity of The Newsvendor Model, Which Lie At The Foundation of The Supply Chain Contracting Research.</i>

**KEMAL KILIÇ (FACULTY MEMBER)**

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Research Area Keywords	<i>Decision Making Under Uncertainty, Knowledge Discovery from Data, Decision Support Systems, Healthcare Management and Informatics, Innovation Management.</i>
Current Research Activities	<i>My Research Interests Seem To Be Diversified To A Wide Range of Areas Such As Operations Management, Innovation Management and Health Care Management, The Link That Joins Them Is Knowledge Discovery From Data (Kdd). In The Context of Health Care Management and Informatics, I Am Currently Working on Various Problems Such As Workforce Planning and Routing For Health Care Audit Staff, Negotiations Between Health Care Insurance Companies and Health Care Service Providers, Locating Health Care Service Providers and Disease/Case Management From Transactional Data. In Another Line of Research, I Am Currently Working on Developing Decision Support Tools That Can Be Used By Senior Managers In Strategic Decisions, in Particular For Innovation Management. I Am Also Working On Theoretical Improvements of Various Data Mining Methodologies That Are Used in Clustering and Feature Subset Selection and Weighting Problems.</i>

**BAHATTİN KOÇ (FACULTY MEMBER)**

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Web	<i>http://myweb.sabanciuniv.edu/bahattinkoc/</i>
Research Area Keywords	<i>Computer-aided Design and Manufacturing, Tissue Engineering, Nano/micro-scale Modeling and Manufacturing, 3D Printing, Rapid Prototyping and Product Realization.</i>
Current Research Activities	<ul style="list-style-type: none"> <li><i>- Tissue and Organ Printing Using Computer-Aided Design and 3D Printing (Additive Manufacturing) Techniques.</i></li> <li><i>- Development of Patient Specific Customized Implants, Prostheses and Medical Devices.</i></li> <li><i>- Novel Methodologies To Design Geometrically and Functionally Complex Multi-Functional Parts and Composites.</i></li> <li><i>- Micro-Nano Scale Modeling and Nanomanufacturing Processes For Multi-Functional Devices and Products. These Research Will Open Up New and Exciting Possibilities in Tissue and Organ Substitutes, Active Nano/Micro Sensors and Devices, Customized Consumer Products With Improved Quality, Environmentally-Friendly Designs and Novel Composite Materials.</i></li> </ul>

**NİLAY NOYAN (FACULTY MEMBER)**

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Research Area Keywords	<i>Operations Research, Stochastic Programming, Risk Measures, Statistical Inference Methods, Stochastic Optimization Applications.</i>
Current Research Activities	<i>Optimization, Stochastic Programming, and Risk Modeling. She Focuses on Developing Stochastic Optimization Modeling Approaches and Solution Methods That Can Be Applied To A Wide Range of Decision Making Problems. In Particular, She Has Been Working on Sustainable Urban Transportation, Airline Revenue Management, and Disaster Relief Network Design.</i>

**SEMİH ONUR SEZER (FACULTY MEMBER)**

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Research Area Keywords	<i>Stochastic Processes, Martingales, Markov Processes, Lévy Processes, Random Measures; Optimal Stopping, Stochastic Optimal Control; Bayesian Sequential Analysis; Sequential Change Detection, Hypothesis Testing; Valuation and Hedging of Contingent Claims, Real Options.</i>
Current Research Activities	<i>Dr. Sezer's Current Research Includes The Applications of The Stochastic Optimal Control Theory in Sequential Analysis, Revenue Management, and Financial Engineering. in Sequential Analysis, Considering The Important Applications in Environment Monitoring, There Has Been A Developing Interest in The Literature on Disorder Detection and Hypothesis Testing Problems. Dr. Sezer Is Currently Working on The Extensions of These Problems For Continuous Time-Processes. His Particular Interest Is on Problems With Poisson and Wiener Processes. Dr. Sezer's Work on Revenue Management Is Focused on The Applications of The Stochastic Control Theory on Certain Problems in The Airline Industry. Earlier Work on These Problems in The Literature Generally Concentrates on Discrete-Time Settings. Dr. Sezer Is Studying The Solutions of These Problems in Their Continuous-Time Formulations, Which Require Fundamentally Different Techniques (Compared To Their Discrete-Time Versions). Finally, Dr. Sezer's Research On Financial Engineering Is on Dividend Optimization Problems For Jump-Diffusion Processes. Problems With Jump-Diffusions Involve Second Order Free-Boundary Problems With Integral Operators. Therefore, They Are Known To Be Much More Difficult Than Those With Pure Diffusions. Dr. Sezer Is Currently Working on Novel Probabilistic Techniques To Solve These More Difficult Problems.</i>

**GÜVENÇ ŞAHİN (FACULTY MEMBER)**

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Research Area Keywords	<i>Transportation and Distribution Logistics, Facility Location, Scheduling and Sequencing, Network Design and Flow, Railroad Planning, Heuristic Algorithms, Decision Support Systems Applications.</i>
Current Research Activities	<i>Crew Planning At Railroads and Airlines, Maritime Routing and Related Vehicle Routing Problems, Airport Operations Planning, Reverse Logistics Network Design.</i>

**GÜNDÜZ ULUSOY (FACULTY MEMBER)**

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Research Area Keywords	<i>Project and Machine Scheduling; Innovation and Manufacturing Strategy Development; Operations and Project Management; Evolutionary Algorithms.</i>
Current Research Activities	<i>Empirical and Longitudinal Study of Innovation Management in Manufacturing Firms. Impact of Drivers of Innovativeness On Innovativeness in Different Clusters of Manufacturing Firms. Dynamic Multi-Project Scheduling Under Uncertainty. Field Study of Interaction Between Manufacturing, Marketing and R&amp;D/New Product Development in Manufacturing Firms. Field Study of Internationalization of Turkish Firms. Competitiveness Analysis Using Wef Data.</i>

**TONGUÇ ÜNLÜYURT (FACULTY MEMBER)**

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Research Area Keywords	<i>Applications of Combinatorial Optimization.</i>
Current Research Activities	<i>We Are Working On Various Extensions of The Sequential Testing Problem. In Particular, We Consider Minimum Cost Testing of General Series-Parallel Systems and Simple Series System With Fixed Costs. We Are Also Interested in Estimating The Expected Cost of A Strategy For A Monotone Boolean Function. In Addition, We Are Working on Some Applications Regarding Routing of Home Care Service Personnel.</i>

**BİROL YÜCEOĞLU (POSTDOC)**

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Research Area Keywords	<i>Integer Programming, Branch-and-Cut, Graph Theory, Network Design.</i>
Current Research Activities	<i>Robust Graph Coloring, Cyclic Crew Scheduling, Freight Consolidation.</i>

**ÖZGE AKBULUT (FACULTY MEMBER)**

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Research Area Keywords	<i>Biomolecular Devices, Micro/Nanofabrication, Separation Science, Composite Materials, Simple &amp; Easy-To-Use Toolboxes.</i>
Current Research Activities	<i>Separation of Nanoparticles, Enrichment of Rare Cells, Superplasticizers in Cement.</i>

**CANAN ATILGAN (FACULTY MEMBER)**

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Research Area Keywords	<i>Polymer and Protein Dynamics, Theoretical and Computational Investigation of Complex Molecular Systems.</i>
Current Research Activities	<i>We Work on The Dynamics of Complex Molecular Systems. Our Main Interest Is Towards Understanding The Working Principles of Molecular Machines. We Focus on Organic Self-Assembled Molecules in General, and on Proteins In Particular. We Develop Network-Based Models To Study The Basic Features Contributing To Structure/Function Relationships in These Systems. We Also Use Multi-Scale Methods To Study Their Dynamics on Different Time and Length Scales. Details and Web Servers Developed May Be Found At The Group Web Site: <a href="http://midst.sabanciuniv.edu">http://midst.sabanciuniv.edu</a>.</i>

**FEVZİ ÇAKMAK CEBECİ (FACULTY MEMBER)**

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Research Area Keywords	<i>Corrosion, Electrochemistry, Energy Storage, Materials Chemistry, Mechanical Behavior of Materials, Nanotechnology, Polymers, Thin Films.</i>
Current Research Activities	<i>Dr. Cebeci's Research Currently Focused On Design Of Hybrid Supercapacitors With Vertically Aligned Carbon Nanotubes As An Active Electrode Component and Conducting Polymer As A Redox Active Component, New Electrode Materials For Lithium Ion Batteries Based On Carbon Nanofibers and Carbon Nanotubes, Polyelectrolyte and Nanoparticle Thin Films Prepared By Layer-By-Layer Technique For Corrosion Protection, and Nanofiber Based Nanocomposites For Artificial Muscle Applications.</i>

**ÖZGÜR DEMİRCAN (POSTDOC)**

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Research Area Keywords	<i>Thermoset and Thermoplastic Composite Materials, Modeling and Mechanical Characterization.</i>
Current Research Activities	<i>Development of Nanomaterials and Integrated Nanotechnology Based Separation - Advanced Oxidation Systems For Industrial Wastewater Treatment Applications.</i>

**MEHMET ALİ GÜLGÜN (FACULTY MEMBER)**

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Research Area Keywords	<i>Ceramics, Ceramic Processing, Grain growth, Sintering, Interfaces, GB-segregation, Phosphorescence; Powder synthesis, SOFCs, Electron Microscopy and Spectroscopy, Hybrid Solar Cells.</i>
Current Research Activities	<i>Our Current Research Activities Are Grouped In Two Main Fields: (i) Ceramics In Fuel Cells and Hybrid Solar Cells, and (ii) Materials Characterization With Electron Microscopy and Spectroscopy. (i) We Are Developing and Characterizing New Materials For A New Generation Of Solid Oxide Fuel Cells, and Trying To Understand The Role Of The Wide Bandgap Semiconductor Oxides In Hybrid Solar Cells. (ii) In Order To Bring A New Perspective Into Both Fields We Are Utilizing Various Electron Microscopy and Spectroscopy Techniques To Analyze Interfaces, Surfaces, and Nanostructures In Ceramic Materials.</i>

**SELMİYE ALKAN GÜRSEL (FACULTY MEMBER)**

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Research Area Keywords	<i>Fuel Cells, Proton- Exchange Membranes, Graphene, Radiation-Induced Grafting, Lithium Ion Batteries, Artificial Muscles, Conducting Polymers.</i>
Current Research Activities	<i>Synthesis &amp; Characterization Of Proton Exchange Membranes For Fuel Cells, Graphene Based Electrodes &amp; Catalyst Supports For Fuel Cells, Radiation Induced Grafting, Micro-Nanomaterials For Artificial Muscles, Electrodes and Electrolytes For Lithium Ion Batteries, Electrochemical Synthesis &amp; Characterization Of Conducting Polymers.</i>

**SELDA ERKOÇ İLTER (POSTDOC)**

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Research Area Keywords	<i>Polymer Chemistry, Controlled Polymerization Techniques (ATRP and RAFT Polymerizations), Controlled Aliphatic Cyclopolymers, Organic Chemistry, Medicinal Chemistry, Synthesis of Drug Molecules.</i>
Current Research Activities	<i>Material Science, Membrane Technologies, Polymer Chemistry, Organic Synthesis, Polymer Nanocomposites.</i>

**GÖZDE İNCE (FACULTY MEMBER)**

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Research Area Keywords	<i>Organic and Inorganic Thin Films, Chemical Vapor Deposition, Fabrication And Characterization Of Polymer Nanostructures, Functional Coatings.</i>
Current Research Activities	<i>Our Current Research Focuses On Stimuli Responsive Polymer Thin-Films and Nanostructures. We Develop Different Types Of Stimuli Responsive Polymers and Study Their Response Behavior Under Different Conditions. In Addition To These Fundamental Studies, We Also Fabricate Thin-Films and Polymer Nanostructures With Optimized Response Characteristics For Various Applications, Including Drug-Delivery, Biological Sensors, Responsive Coatings and Separation Membranes.</i>

**HASAN MANDAL (FACULTY MEMBER)**

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Research Area Keywords	<i>Advanced Ceramic Materials, Crystal Chemistry-Properties Relationship, Phase Relationships.</i>
Current Research Activities	<i>Si<sub>3</sub>N<sub>4</sub> and Sialon Based Ceramic Materials For Wear Applications (Especially As A Ceramic Cutting Tool Material).</i>

**YUSUF MENCELOĞLU (DEAN)**

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Research Area Keywords	<i>Polymer Synthesis, Characterization, Modification and Structure/Property/Application Relationship, Polymerization Kinetics, Fluorinated Polymers, Oligomers and Surfactants (Synthesis and Characterization), Reactions and Extractions in Supercritical Carbon Dioxide, Formulation of Performance Chemicals.</i>
Current Research Activities	<i>Controlled Synthesis/Preparations of Surface Modified Nano Particles, Fibers and Plates and Their Thermoplastic&amp;Thermoset Composites. Understanding The Rheology of Nanoparticles Dispersions in Polymeric Liquids and Melts. Particle/Polymer Interface Interactions.</i>

**BURÇ MISIRLIOĞLU (FACULTY MEMBER)**

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Research Area Keywords	<i>Ferroelectric components in IC applications, Phase Transitions In Functional Oxides and Artificially Grown Multilayers/Superlattices, Effect of Defects on Thermodynamics and Phase Transitions of Crystalline Materials, Semiconducting Properties of Ferroelectrics as Wide Bandgap Systems and Effect of Impurities on Electrical Properties, Growth and Characterization of Ferroelectric and Multiferroic Films Using Chemical Precursor Methods.</i>
Current Research Activities	<ol style="list-style-type: none"> <li><i>1. Study of Interfaces and Their Impact on Leakage Current in Pure and Doped BiFeO<sub>3</sub> Thin Films.</i></li> <li><i>2. Effect of Ionized Impurities on The Phase Transition Characteristics and Dielectric Response of Ferroelectric Thin Films.</i></li> <li><i>3. Phase Transitions in Multilayered Ferroelectric-Paraelectric Heterostructures.</i></li> </ol>

**CLEVA OW-YANG (FACULTY MEMBER)**

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Research Area Keywords	<i>Development of Optical Materials, Electron Microscopy, Controlled Assembly of Nanoparticles, Mechanisms of Extended Phosphorescence, Origin of Wetting; Structure and Properties of Interfaces, Thermodynamics and Kinetics of Phase Transformations.</i>
Current Research Activities	<i>The Common Theme Among The Projects That My Group Focuses on Is The Manipulation and Management of Light Through Materials Engineering. By Harnessing The Unique Phenomena Stemming From Quantum Confinement in A Controlled Manner, We Aim To Create Useful Optical Materials That Can Be Incorporated Into Photonic Devices. We Currently Have Projects Engineering Interlayers For Improve Photon Conversion Efficiency in Organic Solar Cells. Another Set of Activities Are Focused on Understanding The Mechanisms of Extended Phosphorescence in Rare-Earth Co-Doped Alkali Earth Aluminates, in Order To Develop Solutions For More Efficient Energy Consumption. In The Design of New Materials At The Atomic and Nano Scales, We Often Use Advanced Transmission Electron Microscopy Techniques.</i>

**NALAN BİLGİN ÖNCÜ (POSTDOC)**

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Research Area Keywords	<i>Advanced Oxidation Processes, Water and Wastewater Treatment, Nanomaterials in Water And Wastewater Treatment.</i>
Current Research Activities	<i>Development of Nanomaterials and Integrated Nanotechnology Based Separation - Advanced Oxidation Systems For Industrial Wastewater Treatment Applications.</i>

**MURAT ÖZBULUT (POSTDOC)**

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Research Area Keywords	<i>Fluid Mechanics, Ship Hydrodynamics, Violent Free-Surface Flows, Computational Fluid Dynamics, Smoothed Particle Hydrodynamics, fluid-Structure Interaction.</i>
Current Research Activities	<i>My Current Research Based on The Modeling of Violent Free-Surface Flows Like Sloshing Motion of A Fluid in A Tank and Wave-Making Resistance of A 2-D Hydrofoil By A Meshless Numerical Method Called Smoothed Particle Hydrodynamics (Sph). We Are Developing Our Own Sph Code Which Can Model Fluid Flow Problems With A Good Accuracy and Stability.As Well As Free-Surface Flow Problems, Fluid Structure Interaction Problems Like Free-Fall of An Object To A Free-Surface, Sedimentation of Bodies With Varying Geometries Inside A Quiescent Fluid Are Being Investigated By Sph Method.</i>

**MELİH PAPİLA (FACULTY MEMBER)**

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Research Area Keywords	<i>Smart Electroactive Materials, Composite Materials, Virtual Testing and Characterization of Materials; Structural Optimization; Experiment-based Optimization and Surrogate Models.</i>
Current Research Activities	<i>Composite Materials Research Is Pursued on Two Routes Based on The Functional Use in Engineering Design and Applications. Structural Composites: Nanoscale Materials Such As Electrospun Nanofibers Are Incorporated Into Conventional Composite Materials Applications To Enhance The Mechanical Properties. The Mechanical Behavior of These Nano-Integrated Hybrid Composites Are Investigated By Multi-Scale Modeling and Experiments. Unconventional Composites Design Practices Are Also Sought By Integrating Finite Element Analyses, Optimization Techniques, Micromechanics of Failure (MMF) and Durability of Materials/Structures. Design Optimization of Slender Structures Such As Wind Turbine Blades and Wing Structures Are of Particular Interest. Smart Composites: Electroactive Composites For Actuation, Sensing and Energy Harvesting Are Processed and Characterised. Ionic Polymer Metal Composites (IPMC) and Piezoelectric Ceramic Fiber/ Polymer So Called Macro Fiber Composites (MFC) Are of Particular Interest. These Materials Are Incorporated in Engineering Applications Such As Micro Air Vehicles.</i>

**ALPAY TARALP (FACULTY MEMBER)**

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Research Area Keywords	<i>Biochemistry, Chemistry &amp; Materials Science and Nano Engineering.</i>
Current Research Activities	<i>Environmentally Friendly Synthesis; Energetic Materials; Protein-Based Pharmaceuticals and Formulations; Synthetic Chemistry of Drugs; Surface Modification; Nanoparticle Formulations; Antimicrobial Industrial Products; Technology Transfer. Protein Engineering and Chemical Modification.</i>

**MEHMET YILDIZ (FACULTY MEMBER)**

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Research Area Keywords	<i>Composite Materials, Structural Health Monitoring, Transport Phenomena, Meshless Computational Fluid Dynamics, Crystal Growth, Semiconductor Materials.</i>
Current Research Activities	<i>My Current Research Focuses on The Experimental and Computational Aspects of Materials Processing With Emphasis On Advanced Polymer-Based Composite Materials, and Crystal Growth. I Have Been Conducting Research on Manufacturing Polymer-Based Composite Materials For Applications in Aircraft Structures and Structural Health Management Of Fiber-Reinforced Advanced Composite Structures With Embedded Fiber Optic FBG Sensor Arrays. Within The Framework Of My Research On Composite Materials, I Am Also Involved in A Collaborative Research Activity On Nano Particle Integrated Composite Materials. I Am Currently Setting-Up A Crystal Growth Laboratory To Grow Silicon-Germanium Single Crystals From The Silicon Rich-Side of The Phase Diagram. As Well, I Have Been Actively Working on The Development Meshless Computational Fluid Dynamics Algorithms by Using Smoothed Particle Hydrodynamics (Sph) Method For Simulating Complex Engineering Problems Such As Free Surface Flow, Multiphase Flow and Solidification.</i>

**YUDA YÜRÜM (EMERITUS PROFESSOR)**

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Research Area Keywords	<i>Carbon Materials, Heterogeneous Catalysis, Surface Science, Diffusion Phenomenon, Coal Science.</i>
Current Research Activities	<i>Biogasification of Coal, Exfoliation of Graphene From Graphite, Nano Boron Nitride Synthesis, Separation of Boron and Arsenic From Water, Synthesis of New Mesoporous Catalytic Materials For The Synthesis of Carbon Nanotubes.</i>

**AYDIN AYTUNA (FACULTY MEMBER)**

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Research Area Keywords	<i>Functional Analysis, Complex Analysis.</i>
Current Research Activities	<i>Parabolic Manifolds in Several Complex Variables. Linear Topological Properties of Spaces of Analytic Functions. Structure Theory of Frechet Spaces, Tame Frechet Spaces.</i>

**PLAMEN BORISSOV DJAKOV (FACULTY MEMBER)**

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Research Area Keywords	<i>Functional Analysis, Functions of Complex Variables, Operator Theory, Ordinary Differential Equations.</i>
Current Research Activities	<i>Geometry of Frechet Spaces, Spectra of Jacobi Operators, Convergence of Spectral Decompositions of Dirac Operators, Existence of Riesz Bases For Schrödinger and Dirac Operators, Fourier Analysis of Spectral Gaps of Schrödinger Operators With Periodic Singular Potentials.</i>

**ALBERT ERKİP (FACULTY MEMBER)**

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Research Area Keywords	<i>Partial Differential Equations, Pseudo-differential Operators, Functional Analysis.</i>
Current Research Activities	<i>Initial Wave Problems For Nonlocal, Nonlinear, Wave Type (Boussinesq Type) Partial Differential Equations.</i>

### NIHAT GÖKHAN GÖĞÜŞ (FACULTY MEMBER)

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Research Area Keywords	Complex Analysis, Pluripotential Theory, Function Spaces, Jensen Measures.
Current Research Activities	"Pluripotential Theory Is Roughly The Theory of Plurisubharmonic Functions. It Has Developed in Multidimensional Complex Analysis in The Last Fifty Years. My Research Can Be Included in The Common Area of The Subjects Such As Pluripotential Theory, Geometric Function Theory, and Approximation Theory."

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Research Area Keywords	Algebraic Coding Theory, Algebraic Curves over Finite Fields.
Current Research Activities	Algebraic Structure and Weight Analysis of Cyclic Codes and Their Generalizations Such As Quasi-Cyclic Codes and Multidimensional Cyclic Codes. Curves Over Finite Fields and Their Applications in Coding Theory.

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Research Area Keywords	Enumerative Combinatorics, Integer Partitions, $Q$ -series.
Current Research Activities	Understanding Certain $Q$ -Series Identities, and Extending Classical Partition Identities Using $Q$ -Difference Equations. Bijective Methods.

### HENNING STICHTENOTH (EMERITUS PROFESSOR)

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Research Area Keywords	Algebraic Function Fields and Curves, Especially in Characteristic $p>0$ ; Coding Theory; Algebraic Geometry Codes.
Current Research Activities	Analysis of Recursive Towers of Function Fields (Finiteness of Ramification Locus, Bounded Ramification, Non-Trivial Splitting Locus, Behaviour of The $P$ -Rank, Etc.). Construction of Curves Over Finite Fields With Prescribed Properties (Like Number of Rational Points, Points of Higher Degree, Automorphism Groups).

### TOSUN TERZİOĞLU (EMERITUS PROFESSOR)

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Research Area Keywords	Structure of Fréchet Spaces, Sequence Spaces, Bounded and Compact Operators, Invariants for Locally Convex Spaces.
Current Research Activities	Structure Theory of Fréchet Spaces.

**ALEV TOPUZOĞLU (FACULTY MEMBER)**

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Research Area Keywords	Uniformly Distributed Sequences, Finite Fields and their Applications, Pseudorandom Sequences, Permutation Polynomials.
Current Research Activities	Carlitz Rank of Permutation Polynomials Over Finite Fields and Its Application in Uniform Distribution Theory; Enumeration of Quadratic Functions With Prescribed Spectra; Permutation Polynomial Systems.

**VYACHESLAV ZAKHARYUTA (EMERITUS PROFESSOR)**

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Research Area Keywords	Functional Analysis, Complex Analysis, Spaces of Analytic Functions, Linear Topological Invariants, Pluripotential Theory, Holomorphic Calculus on Locally Convex Algebras, Interpolation and Approximation of Analytic and Harmonic Functions.
Current Research Activities	Bases in Spaces of Analytic Functions, Internal Transfinite Diameters and Chebyshev Constants For Domains in Several Complex Variables, Polya Inequality For Multivariate Hankel Matrices, Completely Pluripolar Sets, Mixed $F$ -, $D_f$ -Spaces.

**MAHMUT FARUK AKŞİT (FACULTY MEMBER)**

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Research Area Keywords	Advanced Seals; Tribology: Friction, Wear & Lubrication; Gas, Steam, Wind & Hydro Turbines; Taguchi Robust Design.
Current Research Activities	Wind Turbines: Design and Development of Large Industrial Wind Turbine Structures, Tuned Mass Tower Damping Systems. Advanced Seals: Oilless Foil Bearings For Gas Turbine Applications, Use of Foil Bearings As Engine Seals. Development of High Temperature Compact Actuators For Gas Turbine Shroud Applications. Design of Unmanned Aerial Vehicle Structures. Tribopair Characterization For Hermetic Compressor Bearings Under Iso-Buthane Atmosphere.

**KEMALETTİN ERBATOR (FACULTY MEMBER)**

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Research Area Keywords	Intelligent Motion Control; Humanoid Robots; Industrial Robotics; Force Control.
Current Research Activities	Design, Construction and Control of Full-Body Bipedal Humanoid Robots: A 29 Degrees of Freedom Full-Body Humanoid Is Constructed. Zero Moment Point Based Reference Trajectory Generation and Multi-Sensor Feedback Is Explored and Applied in Humanoid Robot Walking Control. Momentum Based Walking Techniques Are Developed Too. Design, Construction and Control of Industrial Robot Manipulators: A Number of Manipulators Are Designed. The Use of Integrated Force and Visual Feedback in Manipulator Control Is Investigated.

**ALİ KOŞAR (FACULTY MEMBER)**

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Research Area Keywords	<i>Two-Phase Flow, Boiling Heat Transfer, MEMS, Cavitation, Microfluidics, Electronics Cooling, Nanofluids, Micro Heat Sinks.</i>
Current Research Activities	<i>Ali Koşar Is One of Few Pioneers in The Design and Development of New Generation Micro Heat Sink and Microfluidic Devices. His Research Interests Constitute A Wide Spectrum Covering Mems (Microelectromechanical Systems), Heat and Fluid Flow in Micro/Nano Scale, Forced Convection, Two-Phase Flow, and Cavitation. He Aims At Contributing To The Literature by Removing The Lack of Information About Micro/Nano Scale Heat Transfer and Fluid Flow and Providing Experimental Data and Design Guidelines For Futuristic Cooling Technologies. He Has Expertise in Experimental Methods in Heat and Fluid Flow and Phase Change Phenomena in Micro/Nano Scale. He Is Aiming At Contributing To The Scientific Knowledge in Heat and Fluid Flow in Micro/Nano Domains. The Results of His Research Have Already Generated Numerous Journal Research Articles Which Have Been Published in Prestigious Journals Like Journal of Heat Transfer, Journal of Microelectromechanical Systems and International Journal of Heat Transfer.</i>

**GÜLLÜ KIZILTAŞ (FACULTY MEMBER)**

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Research Area Keywords	<i>Topology Optimization, Electromagnetic Metamaterials, Computational Design of Artificial Tissues, Advanced Fabrication of Ceramic-Polymer Composites, Multi-Disciplinary Design Optimization.</i>
Current Research Activities	<i>Dr. Kızıltas's Research Focuses on Computational Design, Topology Optimization and Advanced Fabrication of Polymer-Ceramic Composites With Applications To Electromagnetic Metamaterials and Artificial Tissues. Research Efforts Also Include Development of Mathematical Models and Efficient Computational Procedures For Material Microstructure Design Using Finite Element Methods and Multi-Disciplinary Design Optimization Techniques of Complex Engineering Systems.</i>

**AHMET ONAT (FACULTY MEMBER)**

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Research Area Keywords	<i>Networked Control Systems, Real-Time and Embedded Systems, Real-Time Communication, Linear Synchronous Motor Design Implementation and Control, Linear Motor Vertical Applications, Automatic Control, Fault Diagnosis. Previously: Artificial Intelligence, Learning Algorithms, and Artificial Neural Networks.</i>
Current Research Activities	<i>Dr. Onat Is Currently Working on The Following Areas: Networked Control Systems: Networked Control Systems, Where The Sensors, Controller and Actuators of A Digital Controller Reside on Different Computer Nodes Linked by A Communications Network, Aim To Overcome The Disadvantages of Conventional Digital Control Systems, Such As Difficulty Of Modification, Vulnerability To Electrical Noise, Difficulty in Maintenance and Upgrades, At The Application Level. However Data Delay and Loss On The Network May Unstabilize The Plant. We Have Proposed A Novel Networked Control Method Where Satisfactory Control is Possible Even Under Random Delay and Data Loss By Referring To A Model of The Plant To Predict States of The Plant Under Such Conditions. The Proposed Method Has Good Performance Compared To Other Methods. Design of Synchronous Linear Motors For Vertical Applications: Vertical Applications Place High Demands on The Design of Linear Motors Because The Magnetic Circuit Must Enable High Thrust To Weight Ratio While Realizing High Efficiency, Low Force Ripple, While Maintaining Ease and Low Cost of Manufacturing, Maintainance and Lifespan. We Have Designed and Built Linear Motors That Satisfy These Requirements and Proposed A Composite Design Optimization Method Based on Nonlinear Magnetic Modeling and Finite Element Analysis. Theoretical Studies and Simulations Have Been Backed by Full Scale Vertical Linear Motor Prototypes Capable of 150-450 Kg Net Lift Capability At Speeds Up To 2.5M/S With Regular Supply Voltages. The Research Is Funded by A Japanese World Leader Company in Elevators. Remote Fault Detection and Prognosis For Commercial Vehicles: Work on This Area With Collaboration From A Manufacturer Has Been Carried Out Where New Methods of Fault Diagnosis and Recovery Have Been Proposed, Enabling Auto Makers To Foresee Some of The Impending Failures on Customer Vehicles in The Field.</i>

**ASİF ŞABANOVIÇ (FACULTY MEMBER)**

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Research Area Keywords	<i>Nonlinear and Motion Control Systems, Mechatronics, Micro/Nano Mechatronics Systems, Automation and Robotics, Power Electronics.</i>
Current Research Activities	<i>Currently Projects on Laser Micromachining Workstation Design, Micro-Part Manipulation Workstation, Vibration Control For Lumped and Distributed Systems, Bilateral Control With Variable Time Delay, Design and Control of Flexure Based Nano-Positioners, Fpga Based High Precision Motion Controller, Software For Reconfigurable Real Time Motion Control Systems, Hierarchical and Dynamical Decoupling in Multi-Body Motion Control Systems Are Under Way.</i>

**KÜRŞAT ŞENDUR (FACULTY MEMBER)**

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Research Area Keywords	<i>Electromagnetic Theory, Nano-Optics, Interaction of Photons with Nanostructures, Surface Plasmons, Computational Electromagnetics, Heat Transfer Modeling, Thermal Analysis, Heat-Sink Design, Thermal Management, Heat Assisted Magnetic Recording, Magnetic and Optical Data Storage.</i>
Current Research Activities	<i>Current Research Activities Include Nano-Optical Transducers, Heat Assisted Magnetic Recording, Near-Field Optics, Electromagnetics, Near-Field Radiative Heat Transfer, Nano-Antennas, Modeling, Design, and Manufacturing of Nano-Optical Systems.</i>

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Research Area Keywords	<i>Computer Vision, Control Systems, Robotics, Visual Servoing, Unmanned Aerial Vehicles, Mobile Robots, Micro/ Nano Imaging.</i>
Current Research Activities	<i>Current Research Activities Include Nano-Optical Transducers, Heat Assisted Magnetic Recording, Near-Field Optics, Electromagnetics, Near-Field Radiative Heat Transfer, Nano-Antennas, Modeling, Design, and Manufacturing of Nano-Optical Systems.</i>

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Research Area Keywords	<i>Physical Human-Robot Interaction, Rehabilitation Robotics, Bilateral Teleoperation, Haptic Interfaces and Force-Feedback Exoskeletons, Human Motor Control and Learning, Human-Friendly Service Robotics, Cognitive Robotics.</i>
Current Research Activities	<i>Dr. Ünel's Current Research Focuses on Mosaicing From Aerial Images, Human Activity Recognition Using Depth Images, Mico/Nano Imaging and Visualization, Modeling and Control of Unmanned Aerial Vehicles (UAV), System Identification and Control Techniques For Diesel Engines, 2D/3D Slam.</i>

**SİNAN EREN YALÇIN (POSTDOC)**

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Research Area Keywords	<i>Single and Two-Phase Flow, Microfluidics, Cavitation, Nanofluids.</i>
Current Research Activities	<i>Single Phase and Boiling Heat Transfer At Micro Scale. Bubbly Cavitating Flow At Microscale. Computational Modeling of Single and Two Phase Flows.</i>

**SERHAT YEŞİLYURT (FACULTY MEMBER)**

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Research Area Keywords	<i>Heat Transfer; Fluid Flows; Swimming in micro scales; Renewable &amp; Sustainable Energy Systems.</i>
Current Research Activities	<ul style="list-style-type: none"> <li>- Multi-Phase Transport and Deformation of Porous Media, and Applications To Pem Fuel Cells</li> <li>- Efficient Swimming of Organisms and Artificial Structures in Micro Scales inside Channels and Conduits, Simulations and Experiments For Design and Navigation of Artificial Structures in Conduits.</li> <li>- Design and Aerodynamic Optimization of Vertical Axis Wind Turbines.</li> </ul>

AMAL ARACHICHE (POSTDOC)	
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Research Area Keywords	<i>Autophagy, lysosome, ATG5, GAP, GEF, G protein, Golgi, Vesicular Transport.</i>
Current Research Activities	<i>To Maintain Their Homeostasis and Function, Cells Must Continually Synthesize and Degrade Their Intracellular Components. Autophagy Plays An Important Role in This Process. Indeed, Autophagy Is A Process Through Which Cytosolic Cargo (E.G., Misfolded Proteins and Damaged Organelles) Are Captured in Double-Membrane Vesicles Called Autophagosomes and Degraded in The Autolysosomes Generated After The Fusion of The Autophagosome With Lysosome. The Resulting Macromolecules Are Released and Recycled in The Cytosol. Defect in Autophagy Are Implicated In Number of Human Diseases Including Cancer, Neurodegenerative Disorders and Infectious Diseases. The Regulatory Mechanisms of Autophagy Are Not Fully Understood. The Aim of My Present Research Is To Understand The Role Of Small Gtpase Regulating Proteins in Autophagy Process. We Identified Two Small Gtpase Regulating Proteins That Can Regulate Autophagosome Biogenesis. One of These Proteins Is A Multisubunit Vesicle Tethering Complex and Guanine Exchange Factor (Gef) For Rab Proteins. The Latter One Is A Gtpase Activating Protein (Gap) For Rho Family and Plays An Important Role in Golgi Structure Through Its Effect On Cytoskeletal Reorganization. The Long-Term Goal Is To Identify Potential Therapeutic Targets For Autophagy Pathway in Human Diseases.</i>

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Research Area Keywords	<i>Signaling Pathways Leading to Gene Expression in Cancer Cells, Transcriptional Control of Cell Survival and Apoptosis, Molecular Basis of Inflammation, Oxidative Stress and Antioxidants as Siganalling Molecules.</i>
Current Research Activities	<i>We Address The Specific Role of Bcl-2 Proteins in Hne Induced Apoptosis As They Can Be Considered Major Therapeutic Targets For The Treatment of Atherosclerosis. Furthermore, Protection Exerted by Phytoestrogens on The Apoptotic Effect of Hne Is Also Within Our Research Scope. Another Line of Research Is To Study The Transcriptional Regulation Exerted By Nf-Kb and Foxo on Drug Related Chemoresistance Mechanism and Identify The Role of Bcl-2 Protein Family Members (Bcl-2, Bcl-Xl, Bax, Bak, Bad) In Apoptotic Response. Specifically The Role of Bcl-2 Proteins As Apoptotic Switch In Cancer Development and Therapy Is The Theme of Current Research. Another Research Line Focuses on The Study of Protein Microchip For Cardiovascular Risk Marker Analysis. The Aim Is To Design A Sensitive, Accurate and Cost Efficient Screening Platform Than Currently Utilized Testing Systems. Antibodies of Corresponding Markers Are Immobilized on Glass Platform by Using Robotic Spotting Technology Then The Marker Proteins Are Hybridized With The Antibodies Immobilized on This Platform. The Hybridized and Bound Markers Are Analyzed Quantitatively Using Fluorescence-Based Methods.</i>

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Research Area Keywords	<i>Mitochondrial supercomplexes, Mitochondrial Respiratory Chain, ROS.</i>
Current Research Activities	<i>I Am Interested in Two Main Topic. Primarily, The Effects of Any Pathological Case on Mitochondrial Respiratory Chain Function and Structure, and Stimulated Further Mechanisms in The Cell By This Way. Secondly, The Triggering Mechanisms Bringing To Cell Death By Ros Caused Mitochondria. It Is Assumed Mitochondrial Respiratory Chain Complexes Assembled In A Supramolecular Organisation Called Supercomplex in All My Studies.</i>

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Research Area Keywords	<i>Analysis of Biotic and Abiotic Stress Response Mechanisms of Important Genes; Manipulation of These Genes in Plant System Employing Genomics and Informatics Tools and Their Roles in Plants; Gene Transmission and Silencing.</i>
Current Research Activities	<i>We Pursue A Wide Range Of Investigations That Address The Genome Structure, Function and Evolution. Areas of Current Research Include: Genome Analysis Including Physical Mapping, Genome Sequencing and Resequencing and Genome Evolution Studies. We Have Contributed To The Sequencing of The Brachypodium Genome and Currently Sequencing and Annotating Bacterial Artificial Chromosome of Wheat Genome Chromosomes. Our Lab Also Focuses on The Use of Microarray Technology For 'Transcript Abundance Genetics' and Micrnas in Response To Drought Stress.</i>

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Research Area Keywords	<i>Micronutrient Deficiencies and Toxicities in Plants; Genetic Improvement of Cultivated Wheats by Exploiting Wild Wheats; Heavy Metal Uptake; Transport and Accumulation in Plants; Oxygen Free Radicals and Antioxidants in Stressed Plants; Physiological Characterization of Plants Suffering from Abiotic Stress Factors.</i>
Current Research Activities	<i>Current Research Focuses on Genetic And Agronomic Biofortification of Cereal Crops With Zinc and Iron To Contribute To Minimizing Zinc and Iron Deficiency-Related Health Problems in Human Populations in The Developing World. The Related Projects Are Currently Conducted in 15 Countries. In Breeding Programs, Selected Wild Wheat Genotypes With inherently High Zinc and Iron Concentrations Are Being Exploited To Improve Cultivated Wheat With Zinc and Iron. Further Research Activities Include i) Root Uptake, Retranslocation and Seed Deposition of Micronutrients in Cereal Crops, ii) Metabolic Functions of Mineral Nutrients (Zn, Mg, K..) and iii) Generation of Reactive Oxygen Species and Peroxidative Damage Under Biotic Stress Factors.</i>

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Research Area Keywords	<i>Plant Genetic Engineering; Plant Tissue Culture; Genetically Modified Organisms; Detection of Genetically Modified Organisms; Sustainable Agriculture.</i>
Current Research Activities	<i>Plant Cell and Tissue Culture, Detection of Gmos, Collection and Molecular Characterization of Ancient Wine Grapes, Identification and Directed Evolution of Algae For Hydrocarbon Production.</i>

**MURAT ÇOKOL (FACULTY MEMBER)**

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Research Area Keywords	<i>Drug Combinations, Genetic Interactions, Evolution of Drug Resistance, Drug Mechanism of Action.</i>
Current Research Activities	<i>The Main Research Theme of My Lab Will Be The Response of Biological Systems Against Drugs and Drug Combinations. We Will Computationally Integrate Biological Data Sets To Make Inferences on This Theme and Experimentally Test Our Predictions, Using The Yeast <i>S.cerevisiae</i> As Our Model Organism.</i>

**EMRE DENİZ (POSTDOC)**

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Research Area Keywords	<i>Molecular Biology, Cancer, p53, Tumor Formatio.</i>
Current Research Activities	<i>We Study Novel Factors That Control The Tumor Suppressor Protein P53 and The Dna Damage Response. These Factors May Be Promising Targets For The Development of New Therapeutic Strategies Against Tumor Formation.</i>

**BATU ERMAN (FACULTY MEMBER)**

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Research Area Keywords	<i>Molecular and Cellular Biology, Immunology, Signal Transduction, Lymphocyte Development, p53 protein, Cancer Research, Genome Editing, Gene Therapy.</i>
Current Research Activities	<i>We Use Molecular Biology Techniques To Conduct Basic Research on The Molecular Mechanisms of Signal Transduction and Gene Activation in The Mammalian Immune System. Our Investigation of How Genes Get Turned on and Off in T Lymphocytes That Develop in The Thymus Organ Has Led Us Into The Field of Epigenetics and Cancer Research. We Study Genetic (Transcription Factors That Activate The Interleukin-7 Receptor Gene Enhancer) and Epigenetic (Post-Translational Modification of Histone Proteins and Proto-Oncogene Products Like The P53 Protein) Mechanisms of Gene Control. We Use Genome Editing Techniques Such As Talens And Crispr/Cas9 To Address These Questions.</i>

**DEVİRİM GÖZÜAÇIK (FACULTY MEMBER)**

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Research Area Keywords	<i>Cell Signalling, Cancer Biology, Molecular Basis of Human Disease, Drug Research, Nano Medicine, Nanotoxicology.</i>
Current Research Activities	<i>Gözüaçık Lab Focuses on Cellular Stress and Death Response Mechanisms. In Particular, The Team Works on Stress-Related Autophagy Responses, Autophagy-Cell Death Connections, The Role of Autophagy Abnormalities in Human Diseases, Autophagy-Modulating Drug Discovery and Nanotoxicology. Active Collaborations With Engineers Allow The Research Group To Test Biomedical Applications of Their Findings and To Invent Novel Medical Devices. Dr. Gozuacik Is A Board of Directors Member of The International Cell Death Society (Icids, Based in New York), Editor of The Autophagy Journal (If: 7.5) and An Ad Hoc Referee of Various International Journals and Granting Agencies Including Cell Death and Differentiation Journal (If: 9), Wellcome Trust and Cancer Research, Uk. He Received Excellence Awards From Several Institutions and Companies, Including European Molecular Biology Organization (Embo), Roche Pharmaceuticals and Turkish Academy of Sciences. For More Info: <a href="http://myweb.sabanciuniv.edu/dgozuacik/">http://myweb.sabanciuniv.edu/dgozuacik/</a></i>

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Research Area Keywords	<i>Molecular and Cellular Biology, Cancer Biology, DNA Damage Response, Protein Interactions, Genome Modification.</i>
Current Research Activities	<i>Identification of New Players in Cancer Biology, Characterization Protein Interactions With Tumor Suppressor Proteins, Investigation of Biochemical Basis of Protein Interactions, Finding Out Biological Outcomes of Functional Interactions in Cancer Biology.</i>

**CENK KİĞ (POSTDOC)**

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Research Area Keywords	<i>Molecular Cell Biology, Cancer, DNA Damage.</i>
Current Research Activities	<i>Currently I Am Working on The Role of Autophagy in Hypoxia-Induced Ischemia in Neural Cells, and The Therapeutic Potential of Melk (Maternal Embryonic Leucine-Zipper Kinase) in The Link Between Dna-Damage and Cancer.</i>

**LEVENT ÖZTÜRK (FACULTY MEMBER)**

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Research Area Keywords	<i>Plant Nutrition; Plant Stress Physiology; Food Security; Grains Research.</i>
Current Research Activities	<i>Dr. Ozturk's Current Focus on Research Include Selection and Characterization of Plant Genotypes With High Fertilizer Use Efficiency, Use Of Municipal Waste Compost As An Organic Fertilizer in Plant Production, Effects of Herbicide Drift in Micronutrient Nutrition of Staple Crops, Physiological Characterization of Plant Responses To Abiotic Stress Factors, Food Security and Micronutrient Enrichment of Cereal Grains Using Agronomic Approaches, Effects of Global Warming on Crop Mineral Nutrition and Physiology.</i>

**ZEHRA SAYERS (FACULTY MEMBER)**

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Research Area Keywords	<i>Molecular Biophysics; Protein chemistry; Synchrotron Radiation; Metal-binding proteins; G-proteins; Biosensors.</i>
Current Research Activities	<i>Main Goal of Our Research Is To Understand Structure-Function Relationships in Proteins. Current Projects Focus on Two Families of Proteins; Metallothioneins and G-Proteins. Studies on Metallothioneins Aim At Understanding Proteins Involved in Metal Tolerance and Heavy Metal Accumulation in Plants With A View of Environmental Applications. We Are Also Interested in Using Metal-Binding Proteins As Biosensors. Studies on G-Proteins Aim At Understanding The Role of These Protein Complexes in Signal Transduction in Plants Particularly in Relation To Regulation of Draught Response. in Our Research We Use Basic Protein Characterization and X-Ray Scattering and Diffraction Tools.</i>

**DENİZ SEZER (FACULTY MEMBER)**

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Research Area Keywords	<i>Computational Molecular Biophysics; Theoretical Physical Chemistry.</i>
Current Research Activities	<i>Developing Strategies For The Atomically-Detailed Characterization of Functional Conformational Transitions in Biomolecules. Developing Methods For Using Molecular Dynamics Simulations of Biomolecules To Interpret Data From Magnetic Resonance Spectroscopy Experiments (In Particular Electron Spin Resonance).</i>

**RUSLAN TETUEV (POSTDOC)**

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Web	
Research Area Keywords	<i>Motif Finding, Next Gen Sequencing, Pattern Recognition.</i>
Current Research Activities	<i>Identifying Talen Sequences Off Target Sites, Identification of Thermostable Enzymes Motifs.</i>

**EMEL TİMUÇİN (POSTDOC)**

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Research Area Keywords	<i>Supramolecular Chemistry, Protein Engineering, Computational Biology.</i>
Current Research Activities	<i>Delineating Native-Like Aggregation and Thermostability Mechanisms Allocated By Lipases.</i>

**ÖZLEM YILMAZ (POSTDOC)**

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Research Area Keywords	<i>Plant Physiology, Plant Nutrition, Ecology, Philosophy of Biology.</i>
Current Research Activities	<i>Researching on Plant-Environment Interaction and Focused on Climate Change and Plants, Especially on The Combine Effects of Elevated Carbon Dioxide Levels and Nutrient Deficiencies on Wheat Plants. Along With This Researching on Some Main Concepts in Philosophy of Biology, Especially Phenotype Concept, and Phenotype-Environment Interaction.</i>

**İNANÇ ADAGİDELİ (FACULTY MEMBER)**

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Research Area Keywords	<i>Theoretical Condensed Matter Physics: Topological states of matter. Theoretical Nanophysics. Superconductivity. Spintronics and Spin Hall Effect. Quantum Transport Theory. Graphene Physics. Asymptotic Methods in Physics and Quantum Chaos.</i>
Current Research Activities	<i>Graphene Spintronics. Spin and Valley-Spin Dependent Transport in Graphene Nanostructures. Spin-Orbitronics and Spin Hall Effect. Quantum Transport in Topological Insulators. Supersymmetric Methods in Quasiparticle Spectra of Topological Insulators and D- and P- Wave Superconductors. Universalities in Complex Quantum Systems.</i>

**MEHMET ALİ ALPAR (FACULTY MEMBER)**

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Research Area Keywords	<i>High-energy Astrophysics: Neutron Stars and Environments, Superfluidity, Rotational Dynamics.</i>
Current Research Activities	<i>Fast Oscillations in Disks and Neutron Star Environments, and Qpo Modelling; Reviewing Glitch Modelling and Statistics For All Pulsars; Magnetars and Fallback Disks- Neutron Star Evolution in Interaction With Fallback Disks.</i>

**A. NİHAT BERKER (PRESIDENT)**

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Research Area Keywords	<i>Phase Transitions And Critical Phenomena, Renormalization-Group Theory, Scale-Free Networks and Hierarchical Lattices, Systems with Frozen Disorder, Spin Glasses, Quantum Spin and Electronic Systems, Water Flow in Nanotubes.</i>
Current Research Activities	<i>Electric-Field and Ionic Effects on Water Flow in Nanotubes. Finite-Temperature Phase Diagrams of D=3 Fermionic and Bosonic Systems. Quantum Spin Glasses. Interfacial Roughening in Systems With Frozen Impurities. Tensor Renormalization-Group Theory.</i>

**ÖZGÜR BOZAT (POSTDOC)**

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Research Area Keywords	<i>Mesoscopic physics, spintronics, quantum information.</i>
Current Research Activities	<i>Currently, I Am interested in Transport Properties of Topological Insulators/Superconductors. Using The Tools of Scattering Theory in Mesoscopic Structures, I Am Searching For The Possible Ways of Creating and Detecting Majorana Fermions, Which Are Their Own Anti-Particles, and Can Be Harnessed in Quantum Computing Devices.</i>

**ÜNAL ERTAN (FACULTY MEMBER)**

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Research Area Keywords	<i>High Energy Astrophysics: Neutron Stars, Accretion Disks around Neutron Stars and Blackholes, Disk-Neutron Star Interaction, Radiation from the Accretion Disks and Magnetosphere of Neutron Stars.</i>
Current Research Activities	<i>Theoretical Investigation of Young Neutron Star Populations: Evolution of Young Neutron Star Systems, Anomalous X-Ray Pulsars, Soft Gamma-Ray Repeaters, Dim Thermal Neutron Stars and Central Compact Objects, With fallback Disks.</i>

**SONDAN DURUKANOĞLU FEYİZ (VICE PRESIDENT)**

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Research Area Keywords	<i>Metal Nano-Tubes, Nano-Wires, Molecule-Metal Systems, Density Functional Theory Calculations, Molecular Dynamic Simulations.</i>
Current Research Activities	<i>Growth of Metal Nano-Particles, Structures and Stability of Low-Dimensional Systems, Interaction of Molecules With Metal Substrates, Dynamics of Molecules on Metal Surfaces, Molecular Motors, Developing Interaction Potentials.</i>

**ZAFER GEDİK (FACULTY MEMBER)**

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Research Area Keywords	<i>Theoretical Condensed Matter Physics: Superconductivity, Mesoscopic Physics, Quantum Information Theory.</i>
Current Research Activities	<i>Quantum Cloning, Quantum Algorithms, Quantum Walk.</i>

**ERSİN GÖĞÜŞ (FACULTY MEMBER)**

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Research Area Keywords	High Energy Astrophysics: X-ray and Gamma-ray Properties of Magnetars and X-ray Binaries, Broadband Studies of Gamma Ray Bursts; Transit Time Variations of Exoplanets.
Current Research Activities	X-Ray And Gamma-Ray Investigations of Newly Discovered Magnetars; Temporal and Broadband Spectral Studies of Soft Gamma Repeater Bursts and Gamma Ray Bursts; Broadband Spectral Characterization of Magnetar Persistent Emission; Search For Transit Time Variations in Exoplanet Systems.

**EMRAH KALEMÇİ (FACULTY MEMBER)**

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Research Area Keywords	Astrophysics, High Energy Astrophysics, Black Holes, Neutron Stars, Astrophysical Instrumentation, Semiconductor Detectors.
Current Research Activities	My Current Research Activities Are Concentrated on Two Areas; Multiwavelength Observations of Galactic Black Hole Systems and Astrophysical Instrumentation Based on Room Temperature Semiconductor Detectors. For Black Hole Research I Am Interested in The Conditions of Formation of Jets and The Jet Emission in The Entire Electromagnetic Spectrum. This Line Of Work Is Supported By EU FP7 ITN "Black Hole Universe" and TUBITAK Projects. The Instrumentation Research Currently Focuses on Characterizing Strip CdZnTe Detectors, Coded Mask Imaging Systems and Readout Electronics, Small Satellite Instrumentation.

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Research Area Keywords	High-Energy Astrophysics; Gamma-Ray and X-Ray Spectroscopy of Gamma-Ray Bursts (GRBs) and Soft Gamma Repeaters (SGRs); High-Energy Gamma-Ray Bursts; Supernovae; Physics and Astronomy Education.
Current Research Activities	Fermi Gbm Observations of Sgrs, Spectral & Temporal Studies of Sgr Bursts, Broadband Spectral Investigations of Grbs, Investigation of Short Grbs With Extended Emission

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Research Area Keywords	Quantum Transport; Nanoelectronics, Quantum Hall Effect, Graphene, OLED, Displays, Energy.
Current Research Activities	Nanoelectronics With Graphene, Quantum Transport and Interactions in Graphene, Nems Actuators and Sensors, Breakdown of The Quantum Hall Effect, Graphene Based Oled Devices and Displays.

**SİNEM ŞAŞMAZ MUŞ (POSTDOC)**

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Research Area Keywords	High-Energy Astrophysics: Neutron Stars, High-Energy Emission, Spectral and Temporal Properties of Magnetars.
Current Research Activities	Spectral and Temporal Investigations of Magnetar Bursts.

**CİHAN SAÇLIOĞLU (FACULTY MEMBER)**

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Research Area Keywords	Theoretical Particle Physics and Quantum Field Theory, General Theory of Relativity and Mathematical Physics.
Current Research Activities	Classification of Differentiable 4-Manifolds, Solutions of Euclidean Gravity, Hyperbolic Lie Algebras Related To String Theory.

**SHANSHAN WENG (POSTDOC)**

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Research Area Keywords	High Energy Astrophysics: X-ray Properties of Magnetars, X-ray Binaries, and Ultraluminous X-ray Sources.
Current Research Activities	We Are Developing A Realistic Magnetar Emission Model By Taking All Relevant Physical Processes That Can Take Place in The Extremely Magnetized Atmosphere and Twisted Magnetosphere of Magnetars. The Developed Model Will Be Applied To The X-Ray Observations of Transient and Persistent Magnetars.



# SOM

SCHOOL OF MANAGEMENT

**EVİRİM AKDOĞU (FACULTY MEMBER)**

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Research Area Keywords	Corporate Finance; Theory and Empirical, Mergers and Acquisitions, Corporate Investments.
Current Research Activities	Currently Working on Merger and Acquisition Activities Which Occurred in Turkey During The Foreign Acquisition Wave in Late 2000s; Also Working on Corporate Governance Practices in The European Banking Sector Including Those of Turkey. Interested in Working on Links Between Alliances and Mergers in The Near Future.

**MİNE HATİCE AKSU (FACULTY MEMBER)**

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Research Area Keywords	Financial Distress and Debt Restructurings; Market Anomalies and Their Determinants; Employee Stock Options; Corporate Governance, Transparency; Financial Disclosure.
Current Research Activities	My Current Revise and Resubmit Stage Working Papers Are At The Intersection of Corporate Governance, Corporate Finance and Accounting: 1) "The Effect of Board Diversity on Boards' Monitoring Intensity and Firm Performance: Evidence From The Istanbul Stock Exchange" Co-Authored By Melsa Ararat and Ayse Tansel Cetin, Under Revision At Corporate Governance: An International Review; 2) 'The Impact of Ifrs and Cg Principles Compliance Reporting On Transparency and Disclosure Scores in The Istanbul Stock Exchange', Co-Authored By Hassan Espahbodi, Under Revision At Emerging Markets Finance and Trade. The Other Working Papers I Am Currently Working on Are The Outputs of Our 2-Year Tubitak Project, Under The Evrena Program: 1) "Value Relevance of Accounting Data in The Ise: Did Accounting Reforms Make A Difference? This Study Investigates The Association of Accounting Earnings (Ni) and Book Value of Equity (Bv) With Stock Prices in A Sample of 116 Ise Firms During The 1992-2006 Period; 2) 'The Impact of Ifrs and Cg Principles Compliance Reporting On Earnings Management in Bist, Both Co-Authored By Gülnur Muradoglu and Ayse Tansel Cetin.

**AYSUN ALP (FACULTY MEMBER)**

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Research Area Keywords	Empirical Corporate Finance, Credit Ratings, Capital Structure, The 2008 Financial Crisis.
Current Research Activities	Dr. Alp's Recent Research Investigates Credit Rating Agency Practices and Their Influence on Defaults and Firm Financial Policy Such As Capital Structure and Payout Policy. Other Recent Working Papers Analyze Contagion Effects of Credit Ratings and The Relation Between Investor Sentiment and The 2008 Financial Crisis.

**YİĞİT ATILGAN (FACULTY MEMBER)**

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Research Area Keywords	Investments, Derivatives Markets, International Finance.
Current Research Activities	Determinants of Equity Returns in Emerging Markets. Risk-Return Characteristics of Alternative Investments Such As Etf's. Asset Pricing Anomalies in Bist. Market Reactions To Accounting Restatements.

**K. ÖZGÜR DEMİRTAŞ (FACULTY MEMBER)**

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Research Area Keywords	Investments, Asset Pricing, Portfolio Management, Risk Management, Financial Econometric, Derivatives.
Current Research Activities	I Am Currently Working on A Wide Range of Topics Such As Return Predictability in A Cross-Sectional and Time Series Framework of Stock Returns. I Focus on Alpha-Generating Strategies. I Also Work On Portfolio Allocation Using Newly Developed Almost Mean Variance and Almost Stochastic Dominance Rules. The Relationship Between Risk and Return in Emerging Markets Is Also Among My Interests. The Performance of The Emerging Markets During The Past 10 Years Also Motivated Me To Focus on Macroeconomic Factors Affecting Valuations.

**JOHN GOODWIN (FACULTY MEMBER)**

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Research Area Keywords	Auditing, Corporate Governance, Financial Accounting, Debt Monitoring.
Current Research Activities	Audit Partners and Audit Outcomes, Earnings Quality and Materiality, Debt Monitoring and Economic Outcomes

**ULF NILSSON (FACULTY MEMBER)**

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Research Area Keywords	Management Accounting; Interorganizational Cost Management; Target Costing; Purchasing.
Current Research Activities	I Am Conducting Two Larger Projects Together With Two Professors From Stockholm School of Economics. Both of Them Are Dealing With How Cost Management Can Be Extended Outside The Boundaries of An Individual Firm. One Study Is A Longitudinal Report From The Retailing Industry in Sweden. The Other Project Deals Management Control Systems For Service Outsourcing, Wit A Particular Focus on China.

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Research Area Keywords	Asset Liability Management; Risk Management; Derivatives and Structured Products; Algorithmic Trading; Financial Optimization; Financial Econometrics.
Current Research Activities	I Am Currently Investigating Several Practical Issues in Finance With Global and/or Local Impact. These Projects Include Longevity Risk Management For Individual Investors; Assessing The Relative Performance of The Equal-Weighted Portfolio; Pricing Real Options Embedded in Energy Contracts; Algorithmic Trading With Derivatives.

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Research Area Keywords	Corporate Finance, Mergers and Acquisitions, Valuation, Private Equity, Corporate Capital Structure, Corporate Governance.
Current Research Activities	I Am Interested in The Dynamics of The Global and Local Takeover Markets. I Am Currently Investigating The Financial Performance of Turkish Target Firms Around Acquisitions. In Another Project, I Examine Whether Target Ceo Departures After Mergers Result in Diminished Target Financial Performance in The Post-Takeover Period.

**MELSA ARARAT (RESEARCHER MANAGEMENT)**

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Research Area Keywords	Corporate Governance; Boards; Boards' Gender Diversity and Firm Behaviour; Sustainable Investing.
Current Research Activities	The Impact of Board Diversity on Financial and Social Performance, Corporate Governance of Business Groups in Turkey, Value Differences Between Female and Male Directors, Effect of Domestic Violence on Women's Work Performance.

**OĞUZ BABÜROĞLU (FACULTY MEMBER)**

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Research Area Keywords	Participative Methodologies, Action Research, Emergent Strategy, Stalemate, Self Managing Organizations.
Current Research Activities	My Area of Inquiry Can Be Described As Strategy and Organization Development At All Levels of Social Systems Including Organization, Society, Industry, Network and Regional Foci and Different Type of Units Such As Corporations, Non-Governmental Organizations, Universities, Municipalities, and Government Agencies. His Research Paradigm Rests on Engaging These Units in Change Processes Through The Triangulation of Participatory Methodologies in Order To Understand How Strategies Emerge, How To Institutionalize Self-Managing Enterprises and How Stalemate Is Sustained in Social Systems. His Research Strategy Is Action Research in Which He Tries To Combine Different Knowledge Basis Such As Novel and Ready Grounds in Order To Expand and Enrich 'Common Ground' Formation. This Research Strategy Enables The Examination, Deciphering and Development of 'Practice'.

**EROL BALKAN (VISITING FACULTY MEMBER)**

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Research Area Keywords	<i>Formation of Middle Classes and Education; Neoliberalism; Country Risk; Economic and Financial Crisis.</i>
Current Research Activities	<i>Neoliberalism and The Rise Of Islamic Capital; Islamic Middle Class; Education and Class Formation; Economic Political and Cultural Integration With The European Union.</i>

**DİLEK ÇETİNDAMAR (FACULTY MEMBER)**

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Research Area Keywords	<i>Technology Management and Entrepreneurship.</i>
Current Research Activities	<i>The Analysis of High Technology Companies, Social Innovation.</i>

**AHMET FAZİL ÖNCÜ (FACULTY MEMBER)**

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Research Area Keywords	<i>Sociology of Organizations; Political Economy; Social Theory.</i>
Current Research Activities	<i>I Am A Social Scientist With Formal Training in Sociology and Economics. I Am Also A Good Reader of Political Philosophy, Ethics and History. My Scholarship Is Grounded in Theories and Methods Found in The Fields of Social Theory, Historical Sociology and Political Economy With Application To Topics and Issues Pertaining To The Turkish Social Formation. My Research Primarily Falls Into Three Themes and Related Broad Research Questions: 1) Grounding Turkish Modernity and Capitalism on Social Theory; 2) Political Economy of Class Dynamics and Their Implications For Social and Cultural Change; and 3) Social, Political and Moral Foundations of Democracy and Citizenship.</i>

## ORGANIZATION

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Research Area Keywords	Organizational Behavior; Leadership; Strategic Human Resources Management.
Current Research Activities	Mahmut Bayazit Is Currently Heading A Two Year Research Project Funded By Tubitak, Where He Is Investigating The Origins and Content of Implicit Leadership Theories in Turkey. In Other Projects Dr. Bayazit Is Examining Issues Related To Employee Motivation and Attitudes, Specifically Goal Related Motivation in Management By Objective Programs (With Eda Aksoy); Pay Dispersion and Shirking in Teams (With Dr. Inceoglu), Value Congruence and Psychological Contracts (With Ayse Tever); Effectiveness of Organizational Justice Training; Union Commitment Processes Under Adversarial and Cooperative Industrial Relations Climates in Turkey (With Duygu Arı). Dr. Bayazit's Other Research Include Individual Differences in Decision Making and Cognitive Biases (With Shaul Oreg).

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Research Area Keywords	Cross-cultural Management; International Human Resource Management; Cross-national Organizational Behavior, Global Mindset.
Current Research Activities	I Am Involved in Two International Research Teams. In The First, My Colleagues and I Seek To Understand How Organizational Culture and Human Resource Management Practices Influence Competitiveness in Multinational Organizations. In A Second Newer Project, My Colleagues and I Challenge Current International Business Research From A Perspective of Scientific Mindfulness, Arguing For A Holistic, Cross-Disciplinary, Ecological and Contextual Approach.

## ORGANIZATION

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Research Area Keywords	Leadership, Leader-Follower Relations, Social Identity, Stereotype Threat.
Current Research Activities	I Work on Several Projects With Professor Mahmut Bayazit. One Focuses on Follower Response To Male and Female Leaders Delivering Bad News. In A Second Project We Examine The Role of Stereotype Threat, Self Efficacy and Implicit Power Attitudes on Negotiation Outcomes. We Also Have Written A Commentary on The Usefulness of Stereotype Threat Construct For Organizational Research and Practice.

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Research Area Keywords	Economic Sociology, Sociology of Organizations.
Current Research Activities	Observational and Experimental Studies of The Emergence of Shared Understandings in Markets and Organizational Fields; Observational Studies of How Category Systems Affect Organizational Behavior.

## ORGANIZATION

### İŞİN GÜLER (FACULTY MEMBER)

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Research Area Keywords	Networks, Innovation Strategy, Strategic Decision Making, Entrepreneurship, Venture Capital.
Current Research Activities	Strategic Decision Making in Industries Characterized By Innovation and Uncertainty. Her Current Research Examines The Impact of Venture Capital Portfolios on Entrepreneurial Firms, The Transfer of Network-Based Advantages in Cross-Border Venture Investing, and Innovation Strategy in Pharmaceutical Firms.

### BEHLÜL ÜSDİKEN (FACULTY MEMBER)

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Research Area Keywords	Organization Theory; History of Management Thought; History of Management Education.
Current Research Activities	Current Research Involves Turkish Early Management Literature, Turkish Managerial Elites, Historical Evolution of The Higher Education Field in Turkey, and History in Organization Studies.

## ORGANIZATION

### ARZU WASTI (FACULTY MEMBER)

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Research Area Keywords	Cross-Cultural Organizational Behavior; Human Resources Management.
Current Research Activities	My Current Research Explores Dyadic Trust Formation in Organizations in Collectivist Cultures. In Particular, I Am Investigating Antecedents of Trust in Supervisor, Coworkers and Subordinates in Collectivist Cultures, Where Relationships Are Typically Multiplex; I.E., Involve Sharing of Instrumental and Affective Resources in The Same Relationship. I Am Also Interested in The Implications of Multiplex Ties in Job Performance and Well-Being.

**PRABIRENDRA CHATTERJEE (FACULTY MEMBER)**

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Research Area Keywords	Advertising, Online Auctions, Social Networks, Behavioral Economics, Game Theory.
Current Research Activities	My Current Research Focuses on Optimal Bidding Behavior in Sponsored Search and Other Online Auctions. I Develop Game Theoretic Models To Analyze The Bidding Strategies of Participating Marketers in These Different Types of Auctions. I Am Also Working On Several Other Papers Which Investigate How Certain Behavioral Traits Like Anticipated Regret, Cognitive Dissonance Etc. Affect Marketers' Pricing and Product Development Strategies.

**RONAN JOUAN DE KERVENOEL (FACULTY MEMBER)**

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Research Area Keywords	Retail Management; Consumer Behaviour; Digital Marketing.
Current Research Activities	<p>The Central Idea Advanced By My Research and Running Throughout My Published Work Is Centered on Retail Choice and Technology. I Am Particularly Interested in The Practices and Resistances Displayed By Consumers and Suppliers. The Inspiration Behind Such An Interpretation Is Pierre Bourdieu's Analysis of Cultural, Social, and Symbolic Capital To Reveal The Dynamics of Power Relations in Social Life.</p> <p>Current Projects:</p> <ul style="list-style-type: none"> <li>- Micro-Social Capital As A Source of Competitiveness in The Supply Chain.</li> <li>- Mobile Gaming Confines. Consumer Resistance As Self Regulation: A Case For Ex Ante Social Policy Initiatives?</li> <li>- Resistance in E-Grocery Supply Chain Management</li> <li>- Legitimizing E-Social Capital Cues' Integration: Investigating The Multiple Paths of Resistance Among Web Site Designers.</li> </ul>

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Research Area Keywords	Marketing, Consumer Behavior, Brands And Brand Meanings, Cross-Cultural Consumer Research, Sustainable Consumption Behaviors, Psychometrics.
Current Research Activities	<p>"Cooking vs. buying: The Role of Involvement in Food Evaluation"-with Sinem Atakan (to target Journal of Consumer Research, Spring 2012) "Mail-Order Brides: An Interpretive look" - with Patriya Tansuhaj and Mark Mulder (to target Journal of Consumer Research, Spring 2012) "Customer Environmental Advocacy (CEA): A Scale Development Project" -with Babu John Mariadoss and Patriya Tansuhaj (to target Journal of Public Policy and Marketing, Summer 2012)</p> <p>"Green Brands and Green Brand Extensions" -with Babu John Mariadoss and Patriya Tansuhaj (to target Journal of Public Policy and Marketing, Summer 2012)</p>

**CENK KOCAŞ (FACULTY MEMBER)**

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Research Area Keywords	Game Theoretical Models of Price Promotions; Strategic Pricing; Market Response Modelling; Econometric Modelling; Evolution of Online Markets; Network Economics; Industrial Organization; Stochastic Service Systems.
Current Research Activities	My Research Areas Are Game Theoretical Models of Price Promotions, Evolution of Online Markets, Network Economics, Industrial Organization, and Stochastic Service Systems. My Current Research Stream Examines Pricing Strategies For Homogeneous Goods Sold Online and Price Compared By Both Price Comparison Engines and Segments of Customers. Traffic Generation, Single Product Profit Maximization and Profit Maximization For Baskets of Goods Sold Are The Underlying Objectives of The Firms Under Focus. Theoretical Findings From Equilibrium Analysis Are Empirically Validated Using Data on Homogeneous Goods. The Data Is Collected Using Web Crawlers That Query Pricing Information From Online Retailers of The Homogeneous Goods.

**BURCU TAŞOLUK (FACULTY MEMBER)**

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Research Area Keywords	Marketing Strategy/Global Marketing Strategy; Product and Brand Management; Global Branding/Global Brand Management; Global New Product Management and Rollout; Headquarters and Subsidiary Relations in MNCs.
Current Research Activities	The Effect of Corporate Social Responsibility (CSR) Reputation on Consumer Preference and the Role of Individual and Societal Values; Relating Company Efforts to Consumer Perceptions; The Stability of the Impact of Brand Associations across Countries; Interpreting Interrelations Across Multiple Levels in HGLM Models

**ÖZGE TURUT (FACULTY MEMBER)**

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Research Area Keywords	New Product Development, R&D Strategies, Game Theory, Asymmetric Information Models, New Product Announcement.
	My Current Research Focuses on Investigating The Impact of Context-Dependent Preferences on Various Firm Strategies. Three Working Papers of Mine Deals With This Issue. The First Paper Investigates How Context-Dependent Preferences Affect The Technological Evolution of Disruptive Innovations. in This Paper, We Show That The Existence of Context-Dependent Preferences Encourages Innovator Firms To Invest in Improving The Next Generation Products on The Disruptive Dimension. The Second Paper Shows That The Existence of Context-Dependent Preferences Motivates Firms More To Imitate Each Other Rather Than Differentiate Themselves. Finally, The Third Paper Shows How Context-Dependent Preferences Encourages Firms To Accomodate Entry To Their Market.

**CAN AKKAN (FACULTY MEMBER)**

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Research Area Keywords	<i>Production Scheduling; Project Scheduling; Design of Disassembly Systems; Applied MathematicalPAREAming; Design and Analysis of Discrete Parts Manufacturing Systems.</i>
Current Research Activities	<i>Design and Operation of Disassembly Lines, Specifically Balancing and Rebalancing of Lines and Buffer Capacity Allocation; Rescheduling of Production Activities Due To Disruptions; and Detection and Prevention of Errors in Spreadsheets.</i>

**TEVHİDE FATMA ALTEKİN (FACULTY MEMBER)**

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Research Area Keywords	<i>Operations Management, Production Planning and Control in Closed Loop Supply Chains, Disassembly Line Design, Assembly Line Design, Combinatorial and Heuristic Optimization, Simulation Modeling and Analysis.</i>
Current Research Activities	<i>Designing Reverse Logistics Network For A Third Party Logistics Service Provider (3PL) and Designing After Sales Networks. Developing A Hybrid Optimization/Simulation Approach To. Design and Operation of Disassembly Lines, With A Focus on Balancing and Rebalancing of Paced Disassembly Lines, Stochastic Disassembly Line Balancing, and Buffer Allocation in Unpaced Disassembly Lines. Developing A Stochastic Programming Approach For The Assembly Line Balancing Problem With Variable Task Times.</i>

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Research Area Keywords	<i>Operations Research; Operations Management; Combinatorial Modeling and Optimization; Heuristic Algorithm Design and Optimization; Transportation and Logistics Planning; Decision Support Systems; Location Intelligence; Spatial Data-Mining; Geographical Information Systems and Applications.</i>
Current Research Activities	<i>Location and Routing Optimization of Atms, Bank Branches and Retail Chains; Gis-Based Decision Support System Development For Such Optimization Algorithms; Information Visualization For Location-Based Mobile Data; Location-Based Analysis of Customer Spending Data.</i>

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Research Area Keywords	<i>Location Analysis, Supply Chain Management, Procurement Design, Revenue Management.</i>
Current Research Activities	<i>Analysis of Procurement Contract Designs Under Competition. Dynamic Pricing Under Costly Price Changes. A Continuous Location Model For A Multi-Branch Retailer.</i>

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Research Area Keywords	<i>Risk Intelligence, Supply Chain Risk Management, Supply Chain/Energy Contracts, Supply Chain Networks on the Silk Road, Improvisation and Creativity, Climate Change/ Weather/Water Risk.</i>
Current Research Activities	<i>Risk Intelligent Supply Chains, Improvisation and Risk Taking, Risk Intelligent Leadership, Smart Heuristics for Risk Intelligence, Near Miss Management, Weather Risk Management in Turkey, Accident Risk Management in Wind Energy, Spot Market and LNG Contract Management</i>

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Research Area Keywords	<i>Pricing and Quality of Service in Telecommunication Networks; Heuristic Design and Optimization; Mobile Technologies and E-Government Applications; Data Mining and Machine Learning; Electronic Commerce and IS Economics.</i>
Current Research Activities	<i>My Research Areas Are Management Information Systems and Operations Research (Or). Usually, I Concentrate on The Problems in The Information Systems Area and Try To Solve These Problems Using Existing or Techniques and By Developing New Solution Methods. I Also Use Simulation Techniques To Validate Proposed Solution Methods, Implications and Insights About The Problem. I Also Use Economics and Data Mining Tools/ Methodologies For My Research. Mainly, I Concentrate on The Telecommunications Area. I Investigate The Optimum Strategy of The Firms To Minimize Their Costs While Carrying Out Daily Activities Such As Video Conferencing, Voip, Data Transmission Considering Service Quality, Pricing and Capacity Constraints. I Also Study in Mobile Technologies and E-Government Applications. This Study Thoroughly Examines Strategic Potential of The E-Government Services As Well As Analyzes The Applicability Of Such Services. As A Future Research Direction, I Am Planning To Study Generation Expansion Planning in Energy Sector.</i>

**FÜSUN ÜLENGİN (DEAN)**

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Research Area Keywords	<i>Her Research Focuses on The Multiobjective Evaluation of Macrosystems in General, and Transportation and Logistics Systems, in Particular. Dr.Ülengin Has Also Interests in Multi-Attribute and Group Decision-Making Models, Decision Support Systems, Bayesian Causal Maps As Well As Neural Networks.</i>
Current Research Activities	<i>Her Recent Publication Shave Appeared in A Variety of SCI and SSCI Journals Including Omega, Journal of The Operations Research Society, Socio-Economic Planning Sciences, Europeanjournal of Operational Research, Transportation Research-E, Transportation Research-C, Journal of Production Economics, European Journal of Marketing, The Service Industriesjournal, Interfaces, Expertsystemswith Applications etc.Currentlyshe Is in Theeditorial Board of "Transportation Policy" and "Case Studies in Transport Policy" Journals. She Is The Member of The Scientific And Steering Committees of World Conference of Transportation Research Society (WCTRS). Recently, She Has Been Re-Appointed As The Scientific Committee Chair Responsible of Conferences For WCTRS. She Is Currently The Vice-Chair Of The WCTRS and The Advisor of The Transportation and Logistics Sector in The Turkish Union of Chambers and Commodity Exchanges (TOBB) .</i>

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Research Area Keywords	<i>Advanced Seals; Tribology: Friction, Wear &amp; Lubrication; Gas, Steam, Wind &amp; Hydro Turbines; Taguchi Robust Design.</i>
Current Research Activities	<i>Wind Turbines: Design and Development of Large Industrial Wind Turbine Structures, Tuned Mass Tower Damping Systems. Advanced Seals: Oilless Foil Bearings For Gas Turbine Applications, Use of Foil Bearings As Engine Seals. Development of High Temperature Compact Actuators For Gas Turbine Shroud Applications. Design of Unmanned Aerial Vehicle Structures. Tribopair Characterization For Hermetic Compressor Bearings Under Iso-Buthane Atmosphere.</i>

**ALİ RANA ATILGAN (FACULTY MEMBER)**

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Research Area Keywords	<i>Biological Physics and Systems Science.</i>
Current Research Activities	<i>We Identify Solvent Mediated Biomolecular Interactions and Their Communication Pathways on Different Time and Length Scales. We Focus on The Relationships Between Local Motifs and Global Patterns in Complex Networks With Arbitrary Degree Distributions. These Activities Find Technological Applications in Devising Molecular Machines and System Identification Tools.</i>

**İZAK ATİYAS (FACULTY MEMBER)**

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Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My Current Research Areas Are Competition Law and Policy, Regulation in Telecommunications and Electricity Industries, and Privatization. In The Field of Competition Law, I Am Currently Conducting A Tubitak-Sponsored Project on The Examination of Competition Board Decisions From The Perspective of Law And Economics. The Decisions of The Competition Board Are Examined With Two Objectives in Mind: The First Is To Evaluate The Extent and Sophistication of Economic Analysis They Contain. The Second Is To Compare Them With The Decisions Undertaken in The Application of Competition Law in The European Union. In The Field of Regulation, I Am Studying The Interaction Between Ex-Ante Regulation and Ex-Post Enforcement of Competition Law in The Telecommunications Industry. In Electricity Regulation, I Am Writing A Paper on The General Assessment of Restructuring in The Electricity Industry in Turkey. In Privatization, I Have Recently Published A Book Chapter on The Assessment of The Recent Privatization Experience in Turkey.</i>

**A. NİHAT BERKER (PRESIDENT)**

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Research Area Keywords	<i>Iphase Transitions and Critical Phenomena, Renormalization-Group Theory, Scale-Free Networks and Hierarchical Lattices, Systems With Frozen Disorder, Spin Glasses, Quantum Spin and Electronic Systems, Water Flow in Nanotubes.</i>
Current Research Activities	<i>Electric-Field and Ionic Effects on Water Flow in Nanotubes. Finite-Temperature Phase Diagrams of D=3 Fermionic and Bosonic Systems. Quantum Spin Glasses. Interfacial Roughening in Systems With Frozen Impurities. Tensor Renormalization-Group Theory.</i>

**FEVZİ ÇAKMAK CEBECİ (FACULTY MEMBER)**

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Research Area Keywords	<i>Corrosion, Electrochemistry, Energy Storage, Materials Chemistry, Mechanical Behavior of Materials, Nanotechnology, Polymers, Thin Films.</i>
Current Research Activities	<i>Dr. Cebeci's Research Currently Focused on Design of Hybrid Supercapacitors With Vertically Aligned Carbon Nanotubes As An Active Electrode Component and Conducting Polymer As A Redox Active Component, New Electrode Materials For Lithium Ion Batteries Based on Carbon Nanofibers and Carbon Nanotubes, Polyelectrolyte and Nanoparticle Thin Films Prepared By Layer-By-Layer Technique For Corrosion Protection, and Nanofiber Based Nanocomposites For Artificial Muscle Applications.</i>

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Research Area Keywords	<i>Thermoset and thermoplastic Composite Materials, Modeling and Mechanical Characterization.</i>
Current Research Activities	<i>Manufacturing, Modeling and Mechanical Characterization of Innovative Biaxial Warp Knitted Rtm Composites.</i>

**UMUT EKMEKÇİ (FACULTY MEMBER)**

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Research Area Keywords	<i>Technology and Innovation Management, Technology and Knowledge Transfer, Creative Thinking, National Innovation Systems and Policies, Innovation Management in Energy Sector.</i>
Current Research Activities	<i>(1) Governance of Innovation Networks in Emerging Technologies, (2) Designing Corporate Innovation Systems.</i>

**AHMET EVİN (EMERITUS PROFESSOR)**

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Research Area Keywords	<i>Turkish and Comparative Politics; Theories of the State; the European Union and Its Enlargement.</i>
Current Research Activities	<i>His Research Has Centered on Cultural Contexts of Political Change, in Particular The Theory of The State and Development of Democracy As A Form of State. More Recently, He Has Been Working on Policy Issues Relating To The European Enlargement and Eu's Eastern Partnership, Their Significance For Turkey and The Region, As Well As Their Effect on Transatlantic Relations. "Turkey and Its Neighbors," His Current Research Project At The Transatlantic Academy, Focuses on Transatlantic and Eu Membership Implications of Turkey's Foreign and Energy Policies in The Context of Europe's Energy Supply Security.</i>

**SONDAN DURUKANOĞLU FEYİZ (VICE PRESIDENT)**

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Research Area Keywords	<i>Metal Nano-Tubes, Nano-Wires, Molecule-Metal Systems, Density Functional Theory Calculations, Molecular Dynamic Simulations.</i>
Current Research Activities	<i>Growth of Metal Nano-Particles, Structures and Stability of Low-Dimensional Systems, Interaction of Molecules With Metal Substrates, Dynamics of Molecules on Metal Surfaces, Molecular Motors, Developing Interaction Potentials.</i>

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Research Area Keywords	<i>Ceramics, Ceramic Processing, Grain Growth, Sintering, Interfaces, GB-segregation, Phosphorescence; Powder synthesis, SOFCs, Electron Microscopy and Spectroscopy, Hybrid Solar Cells.</i>
Current Research Activities	<i>Our Current Research Activities Are Grouped in Two Main Fields: (i) Ceramics in Fuel Cells and Hybrid Solar Cells, and (ii) Materials Characterization With Electron Microscopy and Spectroscopy. (i) We Are Developing and Characterizing New Materials For A New Generation of Solid Oxide Fuel Cells, and Trying To Understand The Role of The Wide Bandgap Semiconductor Oxides in Hybrid Solar Cells. (ii) In Order To Bring A New Perspective Into Both Fields We Are Utilizing Various Electron Microscopy and Spectroscopy Techniques To Analyze Interfaces, Surfaces, and Nanostructures in Ceramic Materials.</i>

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Research Area Keywords	<i>Fuel Cells, Proton- Exchange Membranes, Graphene, Radiation-Induced Grafting, Lithium Ion Batteries, Artificial Muscles, Conducting Polymers.</i>
Current Research Activities	<i>Synthesis &amp; Characterization of Proton Exchange Membranes For Fuel Cells, Graphene Based Electrodes &amp; Catalyst Supports For Fuel Cells, Radiation Induced Grafting, Micro-Nanomaterials For Artificial Muscles, Electrodes and Electrolytes For Lithium Ion Batteries, Electrochemical Synthesis &amp; Characterization of Conducting Polymers</i>

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Research Area Keywords	<i>Risk Intelligence, Supply Chain Risk Management, Supply Chain/Energy Contracts, Supply Chain Networks on The Silk Road, Improvisation and Creativity, Climate Change/ Weather/Water Risk.</i>
Current Research Activities	<i>Risk Intelligent Supply Chains, Improvisation and Risk Taking, Risk Intelligent Leadership, Smart Heuristics for Risk Intelligence, Near Miss Management, Weather Risk Management in Turkey, Accident Risk Management in Wind Energy, Spot Market and LNG Contract Management.</i>

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Research Area Keywords	<i>Organic and Inorganic Thin Films, Chemical Vapor Deposition, Fabrication and Characterization of Polymer Nanostructures, Functional Coatings.</i>
Current Research Activities	<i>Our Current Research Focuses on Stimuli Responsive Polymer Thin-Films and Nanostructures. We Develop Different Types of Stimuli Responsive Polymers and Study Their Response Behavior Under Different Conditions. In Addition To These Fundamental Studies, We Also Fabricate Thin-Films and Polymer Nanostructures With Optimized Response Characteristics For Various Applications, Including Drug-Delivery, Biological Sensors, Responsive Coatings and Separation Membranes.</i>

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Research Area Keywords	<i>Quantum Transport; Nanoelectronics, Quantum Hall Effect, Graphene, OLED, Displays, Energy.</i>
Current Research Activities	<i>Graphene Production. Quantum Transport and Interactions in Two Dimensional Electron Systems. Graphene Resonators. Quantum Hall Effect in Graphene. Graphene Based Oled Devices and Displays. Graphene in Energy Applications.</i>

**MURAT KAYA (FACULTY MEMBER)**

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Research Area Keywords	<i>Supply Chain Contracting; Sales Channels Management; Game Theory and Experimental Economics Applications in Supply Chain Management.</i>
Current Research Activities	<i>Dr. Kaya's Current Research Focuses on Decision Making and Coordination Issues in Supply Chains. In Addition To Building Analytical Models of Decision Making, Dr. Kaya Is Also Testing The Validity of These Models Through Experiments With Human Decision Makers. As Such, He Is Involved With The Emerging Field of "Behavioral Operations Management". Dr. Kaya Is Currently Building Models And Conducting Experiments For Three Research Purposes: (1) To Develop Effective Dual Sales Channel Policies For A Manufacturer Who Sells Both Through An Independent Retailer And Also Directly To End Consumers; (2) To Identify The Behavioral Causes of The "Bullwhip Effect", Which Is A Major Source of Inefficiency in Supply Chains; (2) To Study The Validity of The Newsvendor Model, Which Lie At The Foundation of The Supply Chain Contracting Research.</i>

KEMAL KILIÇ (FACULTY MEMBER)	
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Research Area Keywords	<i>Decision Making Under Uncertainty, Knowledge Discovery from Data, Decision Support Systems, Healthcare Management and Informatics, Innovation Management.</i>
Current Research Activities	<i>My Research Interests Seem To Be Diversified To A Wide Range of Areas Such As Operations Management, Innovation Management and Health Care Management, The Link That Joins Them Is Knowledge Discovery From Data (Kdd). In The Context of Health Care Management and Informatics, I Am Currently Working on Various Problems Such As Workforce Planning and Routing For Health Care Audit Staff, Negotiations Between Health Care Insurance Companies and Health Care Service Providers, Locating Health Care Service Providers and Disease/Case Management From Transactional Data. in Another Line of Research, I Am Currently Working on Developing Decision Support Tools That Can Be Used By Senior Managers in Strategic Decisions, in Particular For Innovation Management. I Am Also Working on Theoretical Improvements of Various Data Mining Methodologies That Are Used In Clustering and Feature Subset Selection And Weighting Problems.</i>

ALİ KOŞAR (FACULTY MEMBER)	
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Research Area Keywords	<i>Two-Phase Flow, Boiling Heat Transfer, MEMS, Cavitation, Microfluidics, Electronics Cooling, Nanofluids, Micro Heat Sinks.</i>
Current Research Activities	<i>Ali Kosar Is One of Few Pioneers in The Design and Development of New Generation Micro Heat Sinks and Microfluidic Devices. His Research Interests Constitute A Wide Spectrum Covering Mems (Microelectromechanical Systems), Heat and Fluid Flow in Micro/Nano Scale, Forced Convection, Two-Phase Flow, and Cavitation. He Aims At Contributing To The Literature By Removing The Lack of Information About Micro/Nano Scale Heat Transfer and Fluid Flow and Providing Experimental Data and Design Guidelines For Futuristic Cooling Technologies. He Has Expertise in Experimental Methods in Heat and Fluid Flow and Phase Change Phenomena in Micro/Nano Scale. He Is Aiming At Contributing To The Scientific Knowledge in Heat and Fluid Flow in Micro/Nano Domains. The Results of His Research Have Already Generated Numerous Journal Research Articles Which Have Been Published in Prestigious Journals Like Journal of Heat Transfer, Journal of Microelectromechanical Systems and International Journal of Heat Transfer.</i>

HASAN MANDAL (FACULTY MEMBER)	
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Research Area Keywords	<i>Advanced Ceramic Materials, Crystal Chemistry-Properties Relationship, Phase Relationships.</i>
Current Research Activities	<i>Si<sub>3</sub>N<sub>4</sub> and SiAlON Based Ceramic Materials for Wear Applications (especially as a Ceramic Cutting Tool Material)</i>

**YUSUF MENCELOĞLU (DEAN-FENS)**

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Research Area Keywords	<i>Polymer Synthesis, Characterization, Modification and Structure/Property/Application Relationship, Polymerization Kinetics, Fluorinated Polymers, Oligomers and Surfactants (Synthesis And Characterization), Reactions and Extractions in Supercritical Carbon Dioxide, Formulation of Performance Chemicals.</i>
Current Research Activities	<i>Controlled Synthesis/Preparations of Surface Modified Nano Particles, Fibers and Plates and Their Thermoplastic &amp; Thermoset Composites. Understanding The Rheology of Nanoparticles Dispersions in Polymeric Liquids and Melts. Particle/Polymer Interface Interactions.</i>

**BURÇ MISIRLIOĞLU (FACULTY MEMBER)**

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Research Area Keywords	<i>Ferroelectric Components in IC Applications, Phase Transitions in Functional Oxides and Artificially Grown Multilayers/Superlattices, Effect of Defects on Thermodynamics and Phase Transitions of Crystalline Materials, Semiconducting Properties of Ferroelectrics as Wide Bandgap Systems and Effect of Impurities on Electrical Properties, Growth and Characterization of Ferroelectric and Multiferroic Films Using Chemical Precursor Methods.</i>
Current Research Activities	<ol style="list-style-type: none"> <li><i>1. Study of Interfaces and Their Impact on Leakage Current in Pure and Doped BiFeO<sub>3</sub> Thin Films.</i></li> <li><i>2. Effect of Ionized Impurities on The Phase Transition Characteristics and Dielectric Response of Ferroelectric Thin Films.</i></li> <li><i>3. Phase Transitions in Multilayered Ferroelectric-Paraelectric Heterostructures</i></li> </ol>

**AHMET ONAT (FACULTY MEMBER)**

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Research Area Keywords	<i>Networked Control Systems, Real-Time and Embedded Systems, Real-Time Communication, Linear Synchronous Motor Design Implementation and Control, Linear Motor Vertical Applications, Automatic Control, Fault Diagnosis. Previously: Artificial Intelligence, Learning Algorithms, and Artificial Neural Networks.</i>
Current Research Activities	<p><i>Dr. Onat Is Currently Working on The Following Areas:</i></p> <p><i>Networked Control Systems: Networked Control Systems, Where The Sensors, Controller and Actuators of A Digital Controller Reside on Different Computer Nodes Linked By A Communications Network, Aim To Overcome The Disadvantages of Conventional Digital Control Systems, Such As Difficulty of Modification, Vulnerability To Electrical Noise, Difficulty in Maintenance and Upgrades, At The Application Level. However Data Delay and Loss on The Network May Unstabilize The Plant. We Have Proposed A Novel Networked Control Method Where Satisfactory Control Is Possible Even Under Random Delay and Data Loss By Referring To A Model of The Plant To Predict States of The Plant Under Such Conditions. The Proposed Method Has Good Performance Compared To Other Methods. Design of Synchronous Linear Motors For Vertical Applications: Vertical Applications Place High Demands on The Design of Linear Motors Because The Magnetic Circuit Must Enable High Thrust To Weight Ratio While Realizing High Efficiency, Low Force Ripple, While Maintaining Ease and Low Cost of Manufacturing, Maintainance and Lifespan. We Have Designed and Built Linear Motors That Satisfy These Requirements and Proposed A Composite Design Optimization Method Based on Nonlinear Magnetic Modeling and Finite Element Analysis. Theoretical Studies and Simulations Have Been Backed By Full Scale Vertical Linear Motor Prototypes Capable of 150-450Kgf Net Lift Capability At Speeds Up To 2.5M/S With Regular Supply Voltages. The Research Is Funded By A Japanese World Leader Company in Elevators. Remote Fault Detection and Prognosis For Commercial Vehicles: Work on This Area With Collaboration From A Manufacturer Has Been Carried Out Where New Methods of Fault Diagnosis and Recovery Have Been Proposed, Enabling Auto Makers To Foresee Some of The Impending Failures on Customer Vehicles in The Field.</i></p>

**CLEVA OW-YANG (FACULTY MEMBER)**

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Research Area Keywords	<i>Development of Optical Materials, Electron Microscopy, Controlled Assembly of Nanoparticles, Mechanisms of Extended Phosphorescence, Origin of Wetting; Structure and Properties of Interfaces, Thermodynamics and Kinetics of Phase Transformations.</i>
Current Research Activities	<i>The Common Theme Among The Projects That My Group Focuses on Is The Manipulation and Management of Light Through Materials Engineering. By Harnessing The Unique Phenomena Stemming From Quantum Confinement in A Controlled Manner, We Aim To Create Useful Optical Materials That Can Be Incorporated Into Photonic Devices. We Currently Have Projects Engineering Interlayers For Improve Photon Conversion Efficiency in Organic Solar Cells. Another Set of Activities Are Focused on Understanding The Mechanisms of Extended Phosphorescence in Rare-Earth Co-Doped Alkali Earth Aluminates, in Order To Develop Solutions For More Efficient Energy Consumption. In The Design of New Materials At The Atomic and Nano Scales, We Often Use Advanced Transmission Electron Microscopy Techniques.</i>

**VOLKAN ÖZGÜZ (SUNUM DIRECTOR)**

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Research Area Keywords	<i>Microelectronics and Nanotechnologies, 3D Integration and Packaging, Microsystems and Nano Systems, Integration of Heterogeneous Systems .</i>
Current Research Activities	<i>Integration of 3D Technologies and Nanotechnologies, Low Power System Implementation Using 3D Integration and Nanoelectronics, Nano To Micro and Macro Interfaces and Nano-Packaging, Miniaturization For Wearable Implantable Biomedical Systems; Cognitive Systems Using Neuromorphic Approaches, Memory-Augmented Processing For High Productivity Computing and Communication.</i>

**HASAN SAİT ÖLMEZ (FACULTY MEMBER)**

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Research Area Keywords	<i>Theoretical and Numerical hydrodynamics; Experimental Hydrodynamics; Numerical Techniques in Nonlinear Wave Mechanics; Hydrodynamic Aspects of Yacht design, Hull Design in High-speed Boats, Computer Networks and Network Security.</i>

**MELTEM SEZEN (RESEARCHER)**

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Research Area Keywords	<i>Focused Ion Beam (FIB) Technologies, Scanning Electron Microscopy(SEM), 3D Electron Tomography, Nanostructuring and Nanofabrication using Dual-Beam Platforms, Fabrication and Characterization of Organic Optoelectronic Devices, Advanced Electron Microscopy Applications for Dentistry and Food Engineering, Raman Microscopy and Spectroscopy, Hydrogen Storage Materials.</i>
Current Research Activities	<i>Nanofabrication using Focused Electron and Ion Beams, Electron Microscopy and Spectroscopy Based Characterization, Expertise in TEM Specimen Preparation via Dual-Beam Platforms, Development of Novel 3D TEM Sample Structuring Methodologies and Advanced FIB and TEM Tomography Applications for Nanoporous Materials (COST MP1103 Action), Development of Functional Surfaces on Polymeric Materials using Electron and Ion Beam (FEB-FIB) Modification (COST CM1301 Action), Advanced FIB/ SEM and Raman Based Nanoanalysis Studies for Preventive Dentistry.</i>

**SERAP HAYAT SOYTAŞ (POSTDOC)**

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Research Area Keywords	<i>Polymer Synthesis, Characterization and Structure-Property Relationships; Carbon Nanomaterials; Carbon Nanofibers; Nanoparticles; Lithium Ion Batteries.</i>
Current Research Activities	<i>Development of New Electrode Materials For Rechargeable Lithium Ion Batteries Based on Carbon Nanofibers and Nanoparticles.</i>

**GÜVENÇ ŞAHİN (FACULTY MEMBER)**

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Research Area Keywords	<i>Transportation and Distribution Logistics, Facility Location, Scheduling and Sequencing, Network Design and Flow, Railroad Planning, Heuristic Algorithms, Decision Support Systems Applications.</i>
Current Research Activities	<i>Crew Planning at Railroads and Airlines, Maritime Routing and Related Vehicle Routing Problems, Airport Operations Planning, Reverse Logistics Network Design.</i>

**ASİF ŞABANOVIÇ (FACULTY MEMBER)**

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Research Area Keywords	<i>Nonlinear and Motion Control Systems, Mechatronics, Micro/Nano Mechatronics Systems, Automation and Robotics, Power Electronics.</i>
Current Research Activities	<i>Currently Projects on Laser Micromachining Workstation Design, Micro-Part Manipulation Workstation, Vibration Control For Lumped and Distributed Systems, Bilateral Control With Variable Time Delay, Design and Control of Flexure Based Nano-Positioners, Fpga Based High Precision Motion Controller, Software For Reconfigurable Real Time Motion Control Systems, Hierachy and Dynamical Decoupling in Multi-Body Motion Control Systems Are Under Way.</i>

**KÜRŞAT ŞENDUR (FACULTY MEMBER)**

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Research Area Keywords	<i>Electromagnetic Theory, Nano-Optics, Interaction of Photons with Nanostructures, Surface Plasmons, Computational Electromagnetics, Heat Transfer Modeling, Thermal Analysis, Heat-Sink Design, Thermal Management, Heat Assisted Magnetic Recording, Magnetic and Optical Data Storage.</i>
Current Research Activities	<i>Current Research Activities Include Nano-Optical Transducers, Heat Assisted Magnetic Recording, Near-Field Optics, Electromagnetics, Near-Field Radiative Heat Transfer, Nano-Antennas, Modeling, Design, and Manufacturing of Nano-Optical Systems.</i>

**MEHMET DOĞAN ÜÇÖK**

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Research Area Keywords	<i>National and International Security Strategies, Geopolitics of Energy Security, Foreign Policy, Diplomacy and Strategy Formation.</i>
Current Research Activities	<i>Energy Import Bills in the Current Account Deficit of Turkey</i>

**FÜSUN ÜLENGİN (SOM, DEAN)**

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Research Area Keywords	<i>Her Research Focuses on The Multiobjective Evaluation of Macrosystems in General, and Transportation and Logistics Systems, in Particular. Dr.Ülengin Has Also Interests in Multi-Attribute and Group Decision-Making Models, Decision Support Systems, Bayesian Causal Maps as Well As Neural Networks.</i>
Current Research Activities	<i>Her Recent Publication Shave Appeared in A Variety of SCI and SSCI Journals Including Omega, Journal of The Operations Research Society, Socio-Economic Planning Sciences, European Journal of Operational Research, Transportation Research-E, Transportation Research-C, Journal of Production Economics, European Journal of Marketing, The Service Industries Journal, Interfaces, Expert Systems with Applications etc. Currently she is in the editorial board of "Transportation Policy" and "Case Studies in Transport Policy" Journals. She is the Member of The Scientific and Steering Committees of World Conference of Transportation Research Society (WCTRS). Recently, She Has Been Re-Appointed As The Scientific Committee Chair Responsible of Conferences For WCTRS. She is Currently The Vice-Chair of The WCTRS and The Advisor of The Transportation and Logistics Sector in The Turkish Union of Chambers and Commodity Exchanges (TOBB) .</i>

**SERKAN ÜNAL (RESEARCHER)**

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Research Area Keywords	<i>Polymer Chemistry, Polymer Synthesis and Characterization, Structure-Property Relationships in Polymeric Materials, Functional Polymers, Polymeric Nanomaterials, Hyperbranched Polymers, Polymer Emulsions, Polyurethane Chemistry, Surface Coatings, Adhesives, Thermosets, Thermoplastics, Carbon Nanomaterials, Carbon Nanotubes, Structural Composites, Nanocomposites, Lithium Ion Battery Electrodes.</i>
Current Research Activities	<i>Development of Waterborne Polyurethane Dispersions For Coating and Adhesive Applications, Polymeric Membranes As Nanofiltration and Reverse Osmosis Membranes For Water Purification and Desalination Technologies, Nano-Reinforced Structural Fiber-Reinforced Composites, Hybrid Nanostructures For Energy Storage and Conversion Applications.</i>

**SERHAT YEŞİLYURT (FACULTY MEMBER)**

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Research Area Keywords	<i>Heat Transfer; Fluid Flows; Swimming in micro scales; Renewable &amp; Sustainable Energy Systems.</i>
Current Research Activities	<i>- Multi-Phase Transport and Deformation of Porous Media, and Applications To Pem Fuel Cells. - Efficient Swimming of Organisms and Artificial Structures in Micro Scales Inside Channels and Conduits, Simulations and Experiments For Design and Navigation of Artificial Structures in Conduits. - Design and Aerodynamic Optimization of Vertical Axis Wind Turbines.</i>

MEHMET YILDIZ (FACULTY MEMBER)	
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Research Area Keywords	<i>Composite Materials, Structural Health Monitoring, Transport Phenomena, Meshless Computational Fluid Dynamics, Crystal Growth, Semiconductor Materials.</i>
Current Research Activities	<i>My Current Research Focuses on The Experimental and Computational Aspects of Materials Processing With Emphasis on Advanced Polymer-Based Composite Materials, and Crystal Growth. I Have Been Conducting Research on Manufacturing Polymer-Based Composite Materials For Applications In Aircraft Structures and Structural Health Management of Fiber-Reinforced Advanced Composite Structures With Embedded Fiber Optic Fbg Sensor Arrays. Within The Framework of My Research on Composite Materials, I Am Also Involved in A Collaborative Research Activity on Nano Particle Integrated Composite Materials. I Am Currently Setting-Up A Crystal Growth Laboratory To Grow Silicon-Germanium Single Crystals From The Silicon Rich-Side of The Phase Diagram. As Well, I Have Been Actively Working on The Development Meshless Computational Fluid Dynamics Algorithms By Using Smoothed Particle Hydrodynamics (Sph) Method For Simulating Complex Engineering Problems Such As Free Surface Flow, Multiphase Flow and Solidification.</i>

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Research Area Keywords	<i>Water Treatment, Photocatalysis, Energy, Li-Ion, Graphene, Hydrogen Storage, Metal Nanoparticles, Metal Oxide Nanoparticles, Zeolites, Carbon.</i>
Current Research Activities	<i>Anode Development For High Capacity Li-Ion Batteries With Prolonged Life-Cycle; Hydrogen Storage With Graphene/ Metal Nano Particle Composites; Water Treatment Using Semiconductor Photocatalysts, Membranes, and High Surface Area &amp; Porous Adsorbents; Carbon Based Materials Characterization and Coal Chemistry: Development of High Surface Area Zeolites To Be Used In Water Treatment, Energy Area, and Sensors.</i>

YUDA YÜRÜM (EMERITUS PROFESSOR)	
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Research Area Keywords	<i>Carbon Materials, Heterogeneous Catalysis, Surface Science, Diffusion Phenomenon, Coal Science.</i>
Current Research Activities	<i>Biogasification of Coal, Exfoliation of Graphene From Graphite, Nano Boron Nitride Synthesis, Separation of Boron and Arsenic From Water, Synthesis of New Mesoporous Catalytic Materials For The Synthesis of Carbon Nanotubes.</i>



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SABANCI UNIVERSITY  
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Research Area Keywords	<i>Turkish Foreign Policy, Conflict Resolution, Mediation, Civil Capacity, Middle East Politics, Arab Spring, Peacebuilding.</i>
Current Research Activities	<ol style="list-style-type: none"> <li>1. Writing Her Phd Dissertation at Keele University on Turkey's Multiple Mediation Attempts: A Non-Western Mediator on The Periphery With A Specific Focus on Turkey's Mediation in Somalia and in The Syrian-Israeli Peace Talks.</li> <li>2. Fellow At Ipc in The Project on The Middle East and The Arab Spring (Pomeas) Funded By Diplomatic Academy of Qatar (2014-2016).</li> <li>3. Articles Under Review - "The Role of Humanitarian Ngos in Turkey's Peacebuilding" (Co-Authored With Bülent Aras) International Peacekeeping (Ssci).</li> <li>4. Articles in Preparation - Third Party Intervention During The Arab Spring: The Case of Libya (Pomeas Paper).</li> <li>5. Op-Ed Article Published at New Europe Entitled, "A Coming Crisis in Turkey's Humanitarian Diplomacy: The Akp – Gulen Clash."</li> </ol>

BÜLENT ARAS (FACULTY MEMBER)	
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Research Area Keywords	<i>Turkish Foreign Policy, Middle East, Arab Spring, Arab Authoritarianism, Caucasus and Central Asia, Geopolitics, Peacebuilding, Mediation and Conflict Resolution.</i>
Current Research Activities	<ol style="list-style-type: none"> <li>1- A Multi-Year Project Entitled Project on Middle East and Arab Spring (POMEAS) Funded By Diplomatic Academy of Qatar (2014-2016). - Project Aims To Promote Scholarly Debate on The Challenges and Opportunities in Post-Arab Spring Environment in The Middle East and North Africa. - Pomease Hosts High Quality Academic Pieces and Policy Briefs At Its Web Site, Available At <a href="http://pomeas.org">pomeas.org</a></li> <li>2- 18 Months Long Project On Civilian Capacity in Turkey's Peace-Building Funded By Turkish Cooperation And Coordination Agency (TIKA) (2014-2016) - Project Will Bring Turkish and International Experts and Active Ngos Together To Combine Knowledge and Expertise in The Specifics of Civilian Dimension of Peacebuilding. - There Will Be Field Research in 8 Countries To Discover Turkish Ngo Activities in Health, Emergency Relief, Health and Poverty Reduction.</li> <li>3- 10 Months Long Project on Turkey's Peacebuilding Funded By Turkish Ministry of Foreign Affairs (2013-2014). - A Product of The Research "The Role of Humanitarian Ngos in Turkey's Peacebuilding" (Co-Authored With Pinar Akpinar) Was Submitted To Peacekeeping (Ssci Journal) and Is Under Review</li> <li>4- A Multi-Year Project To Establish an Asia Studies At Istanbul Policy Center Is in Preparation.</li> <li>5- An Article Entitled "Davutoğlu Era in Turkish Foreign Policy Revisited" Will Be Published At Journal of Balkans and Near East Studies (Ssci) On July 7, 2014.</li> <li>6- Pursuing A Fellowship At Wilson Center in Washington Dc Entitled "Global Fellow" in Between 2013-2015. This Fellowship Includes Short Term Stays At The Center, Organizing Workshops and Conferences, Writing Academic Pieces At The Center To Wider Washington Policy Community.</li> <li>7- Articles Under Review - The Kurds in The Arab Spring: Prospect For Peace and Integration (Co-Authored With Fuat Keyman) Middle East Policy (Ssci) Under Review - Reform and Capacity-Building in Turkish Foreign Ministry: Bridging The Gap Between Ideas and Institutions, Mediterranean Politics (Ssci) Under Review. - The Role of Humanitarian Ngos in Turkey's Peacebuilding" (Co-Authored With Pinar Akpinar) Peacekeeping (Ssci) Under Review</li> <li>8- Articles in Preparation - Transformation of Arab Authoritarianism: Collective Consciousness (Asabiyyah), Resilience and Geopolitics</li> <li>9- Op-Eds and Policy Pieces To Orsam Journal, Al Jazeera, Al Arabiya, Project-Syndicate, Mark News, Wilson Center Global Europe Series, Pomease Brief, Pomeas Paper, Hurriyet Daily News, Today's Zaman, Daily Sabah, Daily Star (Beirut), The Hill.</li> </ol>

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Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy, Productivity.</i>
Current Research Activities	<i>My Current Research Areas Are Productivity, Competition Law and Policy, Regulation in Telecommunications and Electricity Industries, and Privatization. Currently I Am Working on Productivity Dynamics Using Firm Level Data, Patterns of Firm Dynamics and Job Creation in Turkey, and, in The Field of Regulation, Regulation of Nuclear Energy.</i>

MELTEM MÜFTÜLER-BAÇ (FACULTY MEMBER)	
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Research Area Keywords	<i>International Relations Theory; Politics of European Integration; Turkey's Relations with the Eu, Eu Enlargement, European Security, Transatlantic Relations.</i>
Current Research Activities	<i>Meltem Müftüler-Baç Is Actively Involved in Research on The Eu, Particularly Its Political Integration Process, The Foreign, Security and Defense Policies, and Its Enlargement. Her Work on Turkey-Eu Relations, Turkish Foreign Policy and Turkey's Eu Accession Process Are Widely Cited.. She Authored Turkey's Relations With A Changing Europe Published By The Manchester University Press in 1997, Co-Edited Turkey and The European Union: Dilemmas, Constraints and Opportunities With Yannis Stivachtis Published By Lexington Books in 2008. She Has Numerous Articles in Refereed Ssci Journals and Book Chapters in Collections on The European Integration Published By Reputable International Presses. For Her Research Activities, She Received Two Prestigious Awards From The Turkish Academy of Sciences: Young Social Scientist Investigator Award in 2002, Distinguished Young Scientist Award in 2003, and The Jean Monnet Ad Personam Title From The European Commission in 2004. She Participated in The Fp6 Project Recon-Reconstituting Democracy in Europe For in 2006-2011, and in Lisbon From 2011 To 2013. She Is A Consortium Partner and Work Package Leader in An Fp7 Project 'Transworld' For 2012-2016, As Well As Another Fp7 Project 'Maxcap' For 2013-2016, All Funded By The European Commission. She Received Two Different Grants Under The Jean Monnet Project of The European Union in 2002 and in 2008 Both For Teaching Politics of European Integration. In 2011, She Was Granted A Jean Monnet Center of Excellence For The European Studies Program She Is Coordinating At Sabancı University.</i>

**NAKIYE AVDAN BOYACIGİLLER (FACULTY MEMBER)**

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Research Area Keywords	Cross-cultural Management; International Human Resource Management; Cross-national Organizational Behavior, Global Mindset.
Current Research Activities	I Am Involved in Two International Research Teams. In The First, My Colleagues and I Seek To Understand How Organizational Culture and Human Resource Management Practices Influence Competitiveness in Multinational Organizations. In A Second Newer Project, My Colleagues and I Challenge Current International Business Research From A Perspective of Scientific Mindfulness, Arguing For A Holistic, Cross-Disciplinary, Ecological and Contextual Approach.

**ÇİĞDEM BOZDAĞ (MERCATOR-IPC FELLOW)**

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Research Area Keywords	New Media, Intercultural Communication, Globalization, Cultural Diversity, Ict in Schools.
Current Research Activities	Mercator-Ipc Fellow, Project Title "Intercultural Networking in Schools Through Ict"

**SENEM AYDIN-DÜZGİT (IPC SENIOR SCHOLAR)**

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Research Area Keywords	European Foreign Policy, EU Enlargement, Discourse Analysis, International Relations Theory, Turkish Foreign Policy.
Current Research Activities	Aydın-Düzgüt Is Currently A Finalising A Book Manuscript To Be Published by Palgrave in 2005 on Turkey-Eu Relations. She Is Also Involved in Two Research Projects in 2014-2015: One Funded by The Sciences Academy on The Changing Attitudes Towards Europe and The Eu Among Turkish Society, and Another One Which Contains A Series of Articles on The Relationship Between Turkish Foreign Policy and Domestic Politics Analysed From A Post-Structuralist International Relations Theory Framework.

**AHMET EVİN (EMERITUS PROFESSOR)**

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Research Area Keywords	Turkish and Comparative Politics; Theories of the State; the European Union and Its Enlargement.
Current Research Activities	His Research Has Centered on Cultural Contexts of Political Change, in Particular The Theory of The State and Development of Democracy As A Form of State. More Recently, He Has Been Working on Policy Issues Relating To The European Enlargement and Eu's Eastern Partnership, Their Significance For Turkey and The Region, As Well As Their Effect on Transatlantic Relations. "Turkey and Its Neighbors," His Current Research Project At The Transatlantic Academy, Focuses on Transatlantic and Eu Membership Implications of Turkey's Foreign and Energy Policies in The Context of Europe's Energy Supply Security.

**KOREL GÖYMEN (EMERITUS PROFESSOR)**

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Research Area Keywords	<i>Public Administration; Metropolitan Administration; Governance; Public Policy; European Union; Third Sector Governance.</i>
Current Research Activities	<p>1. There Is Ongoing Preparations For An International Workshop on 'Public Policymaking in A Globalized World, ' After Which The Proceedings Will Be Published. This Event Will Constitute A Major Activity of The International Development and Public Policy Alliance, Where Further Research on Public Policy Will Be Undertaken.</p> <p>2. Further Work on Local Government Reform Is Conducted Within The ' Governance Working Group,' Which I Am A Member of.</p> <p>3. I Am Working on Novel Neighborhood Structures and Mechanisms Within A Newly Constituted Working Group."</p>

**EMRE HATİPOĞLU (FACULTY MEMBER)**

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Research Area Keywords	<i>Foreign Policy, International Mediation, Economic Sanctions, Foreign Aid, United States, Turkish Politics, Research Methods, Twitter, Online Social Media.</i>
Current Research Activities	<p>-Nato Public Diplomacy Grant, "Institution and Security Nexus in Transitioning Afghanistan," 2014</p> <p>-Co-Principal Investigator, Sabancı University Internal Research Grant, "Identifying Public Opinion Shapers in Turkey Through Twitter," 2012-2013</p> <p>-Researcher, Fp7 Ssh "Transworld: Transatlantic Relations and The Future of Global Governance" 2012-2016</p> <p>-Researcher, Fp7 Ssh "Maxcap: Maximizing Europe's Integration Capacity: Lessons and Prospects For Enlargement" 2013-2016.</p>

**AYŞE KADIOĞLU (FASS, DEAN)**

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Research Area Keywords	<i>Comparative Politics; Political Ideologies (Nationalism, Fascism, Liberalism); Political Thought; Citizenship Studies.</i>
Current Research Activities	<p>1) Relationship between Memory and Democracy</p> <p>2) Perceptions of Citizenship in Turkey</p>

**ERSİN MAHMUT KALAYCIOĞLU (FACULTY MEMBER)**

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Research Area Keywords	<i>Political Representation, Political Participation, Voting Behavior.</i>
Current Research Activities	<i>Kalaycioğlu Currently Published A Report on "Nationalism in Turkey and The World," Which Is Prepared As Part of The International Social Survey Program (Issp). The Report, Completed in March 2014, Is Based on Face-To-Face Interviews With 1,666 People Surveyed in 64 Provinces of Turkey in 2013.</i>

FUAT KEYMAN (IPC DIRECTOR)	
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Research Area Keywords	<i>Globalization; Democratization; Turkish Politics; International Relations Theory.</i>
Current Research Activities	<i>Fuat Keyman Is Actively Involved in Research on Globalization Processes and Their Impact S on Turkey, Particularly Its Democratization, Its Socio-Economic Transformation, As Well As Its Foreign Policy. In Doing So, He Has Produced Work on Turkey-Eu Relations, Turkey'd Transformation, and Turkish Foreign Policy, and Turkey's Accession Process. He Authored Many Books and Articles on These Topics, The Most Recent Of Which Are: Democracy, Identity and Foreign Policy in Turkey (Palgrave Macmillan), Symbiotic Antagonisms: Competing Nationalisms in Turkey (Utah University Press); Turkey's Transformation and Democratic Consolidation (Palgrave Macmillan); Cities: Urban Transformation In Turkey (Doğan Kitap). He Has Finished The Framework 7 European Project: Enacting European Citizenship, and Carrying on A Tubitak Research on Urban Transformation in Turkey: İzmir, Kayseri, Diyarbakır, and Trabzon.</i>

MEHMET LEVENT KURNAZ (MERCATOR-IPC FELLOW)	
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Research Area Keywords	<i>Climate Change, Climate Adaptation, Climate Change Impacts, Regional Climate Modelling.</i>
Current Research Activities	<i>His Research Interests Generally Center Around Regional Climate Modelling and Impacts of Climate Change on Regions Like Turkey, Mediterranean Basin and Central Asia. He Is Currently Working With Different Ministries in Turkey on Drought Mitigation Plans.</i>

ALMUT KÜPPERS (MERCATOR-IPC FELLOW)	
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Research Area Keywords	<i>Multilingualism, Multiliteracies, Language Policy, Monoglot Language Ideologies, Institutional Discrimination, Immigrant Languages in European Societies, Language Teaching Methodology.</i>
Current Research Activities	<i>Her Research Interests Generally Center Around Issues of Material Development, Teaching Methodology and Teacher Training For Multilingual Education. Moreover, She Has Been Investigating Structural Barriers and Mechanisms of Institutional Discrimination in The Context of Monoglot Language Ideologies At School Level. in Her Current Mercator-Ipc Study "Exploring Multilingual Landscapes" She Has Researched The Social-Cultural Impact of A Language Program in Which Turkish As A Stigmatized Immigrant Language in Germany Has Been Ugraded and Used For Educational Purposes. First Findings Point To The Positive Effects on Academic Achievement of Immigrant Pupils, Social Cohesion and Intercultural Understanding.</i>

KEREM ÖKTEM (MERCATOR-IPC FELLOW)	
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Research Area Keywords	<i>Politics, International Relations, Turkey, Political Ideologies, Nationalism, Armenian - Turkish Relations, Muslims in the Balkans, Islamophobia in Western Europe.</i>
Current Research Activities	<i>Diaspora Policies in Emerging Countries, Usage of History and Memory in Turkey's Foreign Policy.</i>

**UMUT ÖZKIRIMLI (IPC SENIOR SCHOLAR)**

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Research Area Keywords	<i>Nationalism, Multiculturalism, Identity, Turkey, Kurds and Kurdish Nationalism, Social Movements and Protest Politics.</i>
Current Research Activities	<i>I Am Currently Editing A Book Series on "Islam and Nationalism" (With Spyros A. Sofos) For Palgrave Macmillan. I Am Also Coordinating A Project Funded By The Swedish Research Council and Riksbankens Jubileumsfond on The Relevance of The Turkish and Nordic Experiences To Political Transitions in The Mena Region; Working on The Third Revised Edition Of Theories Of Nationalism: A Critical Introduction, and A Comparative Study of Social Movements and Protest Politics - in A Way A Sequel To My Latest Book, The Making of A Protest Movement in Turkey: #Occupygezi (Edited Collection) Published By Palgrave Pivot in May 2014.</i>

**JÖRN RICHERT (MERCATOR-IPC FELLOW)**

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Research Area Keywords	<i>Global Petroleum Politics and Markets; Global Energy Governance; Turkish Energy Politics; Old and New Systemic Theories of Global Politics; Foresight Methods.</i>
Current Research Activities	<i>His Major Research Interest Is in The Transformation of Global Energy Politics. By Reflecting on and Re-Constructing The Theoretical Foundations Upon Which Most Empirical Studies on Global Energy Politics Are Built, He Has Developed A New Theoretical Perspective on The Issue. in This Regard He Has Studied The Historical Evolution of Global Petroleum Politics. Currently He Is Working on The Issue of Turkish Energy Leadership.</i>

**ÜMİT ŞAHİN**

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Research Area Keywords	<i>Climate Change, Global Warming, Climate Policy, Environmental Politics, Environmental Policy, Public Policy, Sustainable Development; Environmental Science, Public Health.</i>
Current Research Activities	<i>Mapping and Analysis of Climate Policies in Turkey; Climate Policy Process and Deliberative Democracy in Turkey; Drought and Climate Change; Low-Carbon Development of Turkey; International Climate Negotiations and Turkey's Climate Policies; Climate Movement.</i>

EBRU TURHAN (MERCATOR-IPC FELLOW)	
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Research Area Keywords	<i>Enlargement of the European Union, EU-Turkey Relations, Turkish Foreign Policy, The European Union and Germany, German-Turkish Relations, Political System of the EU (focus: EU institutions and impact of Member States on decision-making processes), Theories of European Integration.</i>
Current Research Activities	<i>Within The Framework of My Mercator-Ipc Fellowship Project I Analyze The Impact of Germany's Turkey Policy on Turkey's Eu Accession Process and Seek To Elucidate The Key Factors That Shape Germany's Preferences Pertaining To Turkish Accession To The Eu. This Year I Have Also Focused on Germany's Increasing Leadership in The Eu Since The Outbreak of The Eurozone Crisis and Its Implications For Turkey's Eu Membership. In This Vein, I Have Presented A Paper Entitled "Europe's Constrained Leader: Germany's Central Role in The Eurozone Crisis and Its Implications For Turkey's Eu Bid" At The 2014 Ecsa-C In Montreal. I Have Written Policy Briefs on The Results of 2013 German Federal Elections and 2014 European Parliament Elections (Under Preparation) and Their Implications For Turkey's Eu Bid; Articles For Orsam Middle Eastern Analysis on Iranian Nuclear Deal and Its Impact on Turkey's Regional Actorness, and For Caspian Report on Germany's Impact on Turkey's Eu Accession Process; Written Various Op-Eds On Eu/German-Turkish Relations and The Visa Liberalization Dialogue For New Europe, Today's Zaman, Atlantic Community, Hurriyet Daily New and Milliyet. Currently I Am Also Working on A Paper Concerning The Formation of Turkish Perceptions of The Eu in View of New Global and Regional Challenges.</i>

BAHRİ YILMAZ (EMERITUS PROFESSOR)	
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Research Area Keywords	<i>International Economics; Macroeconomics, History of Economic Thought, European Economic Integration; Economic Development (Eastern Asia and China).</i>
Current Research Activities	<i>Institutions and Economic Development; World Economic Crisis and Its Impacts on Turkey; European Energy Security and The Role of Turkey; Relations of Turkey With The Eu.</i>



# SUNUM

SABANCI UNIVERSITY NANOTECHNOLOGY RESEARCH  
AND APPLICATION CENTER

**SU|NUM** NANOTECHNOLOGY RESEARCH  
AND APPLICATION CENTER

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Research Area Keywords	<i>Theoretical Condensed Matter Physics: Topological states of matter. Theoretical Nanophysics. Superconductivity. Spintronics and Spin Hall Effect. Quantum Transport Theory. Graphene Physics. Asymptotic Methods in Physics and Quantum Chaos.</i>
Current Research Activities	<i>Graphene Spintronics. Spin and Valley-Spin Dependent Transport in Graphene Nanostructures. Spin-Orbitronics and Spin Hall Effect. Quantum Transport in Topological Insulators. Supersymmetric Methods In Quasiparticle Spectra of Topological Insulators and D- and P- Wave Superconductors. Universalities in Complex Quantum Systems.</i>

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Research Area Keywords	<i>Biomolecular Devices, Micro/Nanofabrication, Separation Science, Composite Materials, Simple &amp; Easy-to-Use Toolboxes.</i>
Current Research Activities	<i>Separation of Nanoparticles, Enrichment of Rare Cells, Superplasticizers in Cement.</i>

**MAHMUT FARUK AKŞİT (FACULTY MEMBER)**

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Research Area Keywords	<i>Fuel Cells, Proton- Exchange Membranes, Graphene, Radiation-Induced Grafting, Lithium Ion Batteries, Artificial Muscles, Conducting Polymers.</i>
Current Research Activities	<i>Wind Turbines: Design and Development of Large Industrial Wind Turbine Structures, Tuned Mass Tower Damping Systems. Advanced Seals: Oilless Foil Bearings For Gas Turbine Applications, Use of Foil Bearings As Engine Seals. Development of High Temperature Compact Actuators For Gas Turbine Shroud Applications. Design of Unmanned Aerial Vehicle Structures. Tribopair Characterization For Hermetic Compressor Bearings Under Iso-Buthane Atmosphere.</i>

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Research Area Keywords	<i>Polymer and Protein Dynamics, Theoretical and Computational Investigation of Complex Molecular Systems.</i>
Current Research Activities	<i>We Work on The Dynamics of Complex Molecular Systems. Our Main Interest Is Towards Understanding The Working Principles of Molecular Machines. We Focus on Organic Self-Assembled Molecules In General, and on Proteins In Particular. We Develop Network-Based Models To Study The Basic Features Contributing To Structure/Function Relationships in These Systems. We Also Use Multi-Scale Methods To Study Their Dynamics on Different Time and Length Scales. Details and Web Servers Developed May Be Found At The Group Web Site: <a href="http://midst.sabanciuniv.edu">http://midst.sabanciuniv.edu</a></i>

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Research Area Keywords	<i>Sol-gel synthesis, bioceramics, biocomposites, nanoparticles, Atomic Force Microscopy (AFM), Nanocharacterization.</i>
Current Research Activities	<i>Role of Boron Nitride in Bone Fracture Healing (TUBITAK 1003, Investigator), Production of Ternary Shape Memory Alloys Via Self-Propagating High Temperature Synthesis and Characterization Studies (Turkey-Italy Bilateral Project, Researcher), Development of Functional Surfaces on Polymeric Materials Using Electron and Ion Beam (FEB-FIB) Modification (COST CM 1301, Researcher), Nanoparticle Synthesis, Characterization and Applications, Synthesis of Calcium Phosphate Nanoparticles and Their Wide Range Health Related Applications From Bone Graft To Targetted Drug Delivery, Atomic Force Microscopy and Advanced Surface Characterization.</i>

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Research Area Keywords	<i>Molecular Microbiology; Industrial Microbiology; Cellulose Saccharification; Bacterial Gene Expression.</i>
	<i>The Goal of My Research To Successfully Establish A Bacterial System That Produces The Enzymes Required For Conversion of Cellulose To Glucose (Utilizable Sugars By Yeasts and Other Microorganisms To Produce Bioethanol and Other Bioproducts). Currently The Cellulases Are Produced By Yeasts, Complex Organisms With Slower Growth Rates. Establishing A Bacterial System To Produce and Secrete Enzymes Required For A 3 Step Biochemical Pathway (Cellulose Saccharification) Will Be The First Step To Create Synthetic Systems To Produce Multi-Step Bioprocess Enzymes. The Research Area Also Focuses on Optimization of Protein Expression and Secretion By Genetic Methods, and Finding Suitable Growth Media, and Optimizing Growth Factors For Optimal Production.</i>

HÜVEYDA BAŞAĞA (FACULTY MEMBER)	
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Research Area Keywords	<i>Signaling Pathways Leading to Gene Expression in Cancer Cells, Transcriptional Control of Cell Survival and Apoptosis, Molecular Basis of Inflammation, Oxidative Stress and Antioxidants as Siganalling Molecules.</i>
Current Research Activities	<i>We Address The Specific Role of Bcl-2 Proteins in Hne Induced Apoptosis As They Can Be Considered Major Therapeutic Targets For The Treatment of Atherosclerosis. Furthermore, Protection Exerted By Phytoestrogens on The Apoptotic Effect of Hne Is Also Within Our Research Scope. Another Line of Research Is To Study The Transcriptional Regulation Exerted By Nf-Kb And Foxo on Drug Related Chemoresistance Mechanism and Identify The Role of Bcl-2 Protein Family Members (Bcl-2, Bcl-Xl, Bax, Bak, Bad) In Apoptotic Response. Specifically The Role Of Bcl-2 Proteins As Apoptotic Switch In Cancer Development and Therapy Is The Theme of Current Research. Another Research Line Focuses on The Study of Protein Microchip For Cardiovascular Risk Marker Analysis. The Aim Is To Design A Sensitive, Accurate and Cost Efficient Screening Platform Than Currently Utilized Testing Systems. Antibodies of Corresponding Markers Are Immobilized on Glass Platform By Using Robotic Spotting Technology Then The Marker Proteins Are Hybridized With The Antibodies Immobilized on This Platform. The Hybridized and Bound Markers Are Analyzed Quantitatively Using Fluorescence-Based Methods.</i>

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Research Area Keywords	Energy, Li-ion Battery, Li/Air Battery, Battery Electrochemistry, Anode, Cathode, Organic Radical Battery, Organic Synthesis, Organic Spectroscopy, Nuclear Magnetic Resonance (NMR), Mass Spectroscopy (MS).
Current Research Activities	Solid Synthesis of Li-Based Inorganic Compounds Used in Li-ion Battery As A Cathode Active Material (LiFePO <sub>4</sub> , Li(NixMnyCoz)O <sub>2</sub> ). Conductivity Enhanced Additives For Li-ion Batteries (MnO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> Etc.). Organic Synthesis of Cathode Active Material For Organic Radical Battery. Titanate-Based Li-ion Battery Anode Preparation. Electrochemical (CV, Chronopotentiometry, Impedance) and Morphological Characterization (XRD, SEM, TEM) Of Materials. Organic Synthesis (Radical Cyclization) and Characterization (NMR, IR, MS).

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Research Area Keywords	VLSI Design for Analog/Digital Sensor Interfaces, Microelectromechanical System (MEMS) Modeling and Design, Medical Instrumentation (Sensor and Sensor Interface Design), Acoustic Microscopy (Material Characterization, Lens Design).
Current Research Activities	Front-End Electronics Design For Ultrasonic Imaging and Therapeutics. Micromachined Ultrasonic Transducer Design For Intravascular Ultrasound (IVUS) and High-Intensity Focused Ultrasound (HIFU) Applications. Transducer Modeling.

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Research Area Keywords	Manufacturing Processes and Equipment, Process Modelling, Monitoring and Control, Machine Dynamics and Mechanical Vibrations.
Current Research Activities	Mechanics, Dynamics and Stability of Parallel and Multi-Axis Machining Operations; Measurement and Modeling of Linear, Varying and Nonlinear Dynamics of High Speed Spindles (Rotors) Under Operating Conditions; Modeling of Micro Machining Process Dynamics and Stability; Identification, Modeling and Prediction of Process Damping in Machining Processes; Modeling of Contact and Friction in Metal Cutting; High Performance Machining of Aerospace Parts and Alloys; Stability of Cutting Under Nonlinear Effects; Computer Simulation of Broaching, Turning and Milling Processes.

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Research Area Keywords	Analysis of Biotic and Abiotic Stress Response Mechanisms of Important Genes; Manipulation of These Genes in Plant System Employing Genomics and Informatics Tools and Their Roles in Plants; Gene Transmission and Silencing.
Current Research Activities	We Pursue A Wide Range of Investigations That Address The Genome Structure, Function and Evolution. Areas of Current Research Include: Genome Analysis Including Physical Mapping, Genome Sequencing and Resequencing and Genome Evolution Studies. We Have Contributed To The Sequencing of The Brachypodium Genome and Currently Sequencing and Annotating Bacterial Artificial Chromosome of Wheat Genome Chromosomes. Our Lab Also Focuses on The Use of Microarray Technology For 'Transcript Abundance Genetics' and Micrnas in Response To Drought Stress.

**FEVZİ ÇAKMAK CEBECİ (FACULTY MEMBER)**

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Research Area Keywords	<i>Corrosion, Electrochemistry, Energy storage, Materials chemistry, Mechanical behavior of materials, Nanotechnology, Polymers, Thin films.</i>
Current Research Activities	<i>Dr. Cebeci's Research Currently Focused on Design of Hybrid Supercapacitors With Vertically Aligned Carbon Nanotubes As An Active Electrode Component and Conducting Polymer As A Redox Active Component, New Electrode Materials For Lithium Ion Batteries Based on Carbon Nanofibers and Carbon Nanotubes, Polyelectrolyte and Nanoparticle Thin Films Prepared by Layer-by-Layer Technique For Corrosion Protection, and Nanofiber Based Nanocomposites For Artificial Muscle Applications.</i>

**RAGHURAJ SINGH CHOUHAN (POSTDOC)**

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Research Area Keywords	<i>Biosensors, Analytical Chemistry and Nanotechnology.</i>
Current Research Activities	<i>Development of Enzymatic and Antibody Based Biosensors For Clinical/Environmental Applications. Synthesis of Nanoparticles (Inorganic, Polymer and Semiconductor) For Immunodiagnostic and Therapeutic Applications. Cytotoxicity Assays Using Capacitance Biosensors. Bioconjugation and Biofunctionalization Techniques.</i>

**İSMAİL ÇAKMAK (FACULTY MEMBER)**

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Research Area Keywords	<i>Micronutrient Deficiencies and Toxicities in Plants; Genetic Improvement of Cultivated Wheats by Exploiting Wild Wheats; Heavy Metal Uptake; Transport and Accumulation in Plants; Oxygen Free Radicals and Antioxidants in Stressed Plants; Physiological Characterization of Plants Suffering from Abiotic Stress Factors.</i>
Current Research Activities	<i>Current Research Focuses on Genetic and Agronomic Biofortification of Cereal Crops With Zinc and Iron To Contribute To Minimizing Zinc and Iron Deficiency-Related Health Problems in Human Populations in The Developing World. The Related Projects Are Currently Conducted in 15 Countries. In Breeding Programs, Selected Wild Wheat Genotypes With Inherently High Zinc and Iron Concentrations Are Being Exploited To Improve Cultivated Wheat With Zinc and Iron. Further Research Activities Include i) Root Uptake, Retranslocation and Seed Deposition of Micronutrients in Cereal Crops, ii) Metabolic Functions of Mineral Nutrients (Zn, Mg, K..) and iii) Generation of Reactive Oxygen Species and Peroxidative Damage Under Biotic Stress Factors.</i>

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Research Area Keywords	<i>OLED Applications, Graphene Growth and Transfer Methods, Contact and Non-contact Atomic Force Microscopy, Artificial Lipid Bilayers,</i>
Current Research Activities	<i>Graphene and ITO Based OLED Applications, Graphene Growth and Transfer, Analysing of Artificial Lipid Bilayers With Atomic Force Microscopy In Liquids.</i>

**MURAT ÇOKOL (FACULTY MEMBER)**

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Research Area Keywords	<i>Drug combinations, genetic interactions, evolution of drug resistance, drug mechanism of action.</i>
Current Research Activities	<i>The Main Research Theme of My Lab Will Be The Response of Biological Systems Against Drugs and Drug Combinations. We Will Computationally Integrate Biological Data Sets To Make Inferences on This Theme and Experimentally Test Our Predictions, Using The Yeast S.Cerevisiae As Our Model Organism.</i>

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Research Area Keywords	<i>Nanobiotechnology, RNA, Nanoparticles, Diagnostics and Therapeutics Development, Novel Cancer Therapy Research.</i>
Current Research Activities	<i>Development of Nanoparticles For Targeted Drug Delivery.</i>

**UMUT EKMEKÇİ (FACULTY MEMBER)**

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Research Area Keywords	<i>Technology and Innovation Management, Technology and Knowledge Transfer, Creative Thinking, National Innovation Systems and Policies, Innovation Management In Energy Sector.</i>
Current Research Activities	<i>1) Governance of Innovation Networks in Emerging Technologies, (2) Designing Corporate Innovation Systems.</i>

**BATU ERMAN (FACULTY MEMBER)**

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Research Area Keywords	<i>Molecular and Cellular Biology, Immunology, Signal Transduction, Lymphocyte Development, p53 protein, Cancer Research, Genome Editing, Gene Therapy.</i>
Current Research Activities	<i>We Use Molecular Biology Techniques To Conduct Basic Research on The Molecular Mechanisms of Signal Transduction and Gene Activation in The Mammalian Immune System. Our Investigation of How Genes Get Turned on and Off in T Lymphocytes That Develop in The Thymus Organ Has Led Us Into The Field Of Epigenetics and Cancer Research. We Study Genetic (Transcription Factors That Activate The Interleukin-7 Receptor Gene Enhancer) and Epigenetic (Post-Translational Modification of Histone Proteins and Proto-Oncogene Products Like The P53 Protein) Mechanisms of Gene Control. We Use Genome Editing Techniques Such As Talens and Crispr/Cas9 To Address These Questions.</i>

**SONDAN DURUKANOĞLU FEYİZ (VICE PRESIDENT)**

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Research Area Keywords	<i>Metal Nano-Tubes, Nano-Wires, Molecule-Metal Systems, Density Functional Theory Calculations, Molecular Dynamic Simulations.</i>
Current Research Activities	<i>Growth of Metal Nano-Particles, Structures and Stability of Low-Dimensional Systems, Interaction of Molecules With Metal Substrates, Dynamics of Molecules on Metal Surfaces, Molecular Motors, Developing Interaction Potentials.</i>

**DEVİRİM GÖZÜAÇIK (FACULTY MEMBER)**

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Research Area Keywords	<i>Cell Signalling, Cancer Biology, Molecular Basis of Human Disease, Drug Research, Nano Medicine, Nanotoxicology.</i>
Current Research Activities	<i>Gözüaçık Lab Focuses on Cellular Stress and Death Response Mechanisms. In Particular, The Team Works on Stress-Related Autophagy Responses, Autophagy-Cell Death Connections, The Role of Autophagy Abnormalities in Human Diseases, Autophagy-Modulating Drug Discovery and Nanotoxicology. Active Collaborations With Engineers Allow The Research Group To Test Biomedical Applications of Their Findings and To Invent Novel Medical Devices. Dr. Gozuacik Is A Board of Directors Member of The International Cell Death Society (Icids, Based in New York), Editor of The Autophagy Journal (If: 7.5) and An Ad Hoc Referee of Various International Journals and Granting Agencies Including Cell Death and Differentiation Journal (If: 9), Wellcome Trust and Cancer Research, Uk. He Received Excellence Awards From Several Institutions and Companies, Including European Molecular Biology Organization (Embo), Roche Pharmaceuticals and Turkish Academy of Sciences. For More Info: <a href="http://myweb.sabanciuniv.edu/dgozuacik/">http://myweb.sabanciuniv.edu/dgozuacik/</a></i>

**MEHMET ALİ GÜLGÜN (FACULTY MEMBER)**

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Research Area Keywords	<i>Ceramics, Ceramic Processing, Grain growth, Sintering, Interfaces, GB-segregation, Phosphorescence; Powder synthesis, SOFCs, Electron Microscopy and Spectroscopy, Hybrid Solar Cells.</i>
Current Research Activities	<i>Our Current Research Activities Are Grouped in Two Main Fields: (i) Ceramics in Fuel Cells and Hybrid Solar Cells, and (ii) Materials Characterization With Electron Microscopy and Spectroscopy. (i) We Are Developing and Characterizing New Materials For A New Generation of Solid Oxide Fuel Cells, and Trying To Understand The Role of The Wide Bandgap Semiconductor Oxides in Hybrid Solar Cells. (ii) in Order To Bring A New Perspective Into Both Fields We Are Utilizing Various Electron Microscopy and Spectroscopy Techniques To Analyze Interfaces, Surfaces, and Nanostructures in Ceramic Materials.</i>

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Research Area Keywords	RF, Microwave & Millimeter-wave Integrated Device, Circuits and Systems, Analog and Mixed-Signal Integrated Circuits and Systems, Sensors and Actuators, Micro-Electro-Mechanical Systems (MEMS).
Current Research Activities	<p>1) Rf / Microwave / Millimeter-Wave Integrated Devices, Circuits and Systems: Design and Fabrication X-Band (8-12 Ghz ) Phased-Array Transceiver Module For Radar Applications : Sige Bicos Process Technology Is Being Implemented To Realize X-Band Transmitter/Receiver (T/R) Front-End For Phased Array, Radar Applications. T/R Module Consists of Phase Shifter, T/R Switches, Lna and Pa Sub-Blocks and Involves Rf Integrated System / Circuit / Device Design, Fabrication, Test / Measurement Competence. F Band (94 – 140 Ghz) Passive Radar For Thz Imaging Applications: Sige Bicos Process Technology Is Being Implemented To Realize 94-140 Ghz Receiver Front-End For Passive Imaging Radar Applications. Receive Module Consists of Lna, Rf Mems Switch, Detector and Baseband Circuitry and Involves Millimeter-Wave, Microwave and Rf Integrated Devices, Circuits and Systems Design, Fabrication, Test / Measurement Competence.</p> <p>2) Analog and Mixed-Signal Integrated Circuits and Systems Large-Array Sensor Readout Circuitry: Signal Readout, Control and Conditioning Circuits For Large-Array Sensor/Detector Systems, Such As 1024X1024, 640X480 Ir Imaging Systems, Etc., Being Developed Using Cmos Technology and Analog / Digital (Mixed-Signal) Integrated Circuits / System Design and Implementation Competence.</p> <p>3) Biological and Chemical Sensors, Actuators and Mems Development of A Biosensor Platform (Lab-On-Chip): An Electronic Lab-on-Chip, Biosensing Platform Is Being Developed. The Biosensors Composed of Capacitive Transducers and Amperometric Electrodes, Electronic Readout Circuitries, and/or on-Chip Transmitter, and A Signal Processing and Conditioning Circuitry. The Platform Is Aimed At Applications of The Early Monitoring and Diagnosis of Life Threatening Diseases Such As Cancer and Cardiovascular Diseases. The Platform Is Also Applicable For The Detection / Quantification of Biological and Chemical Warfare Agents.</p> <p>Mems Research Activities Involves Development of Integrated Circuit Compatible Rf Mem Devices: Switch, Voltage Controlled Capacitor, Etc. A Succesfull Implementation Of This Research Have Led To A Rf Mems Switch Offered in A Standard Sige Bicos Process. Application of This Siwtch For Different Frequency Range Is Our Current / Active Area of Research, Involving Design, Fabrication and Testing Aspects.</p>

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Research Area Keywords	Fuel Cells, Proton- Exchange Membranes, Graphene, Radiation-Induced Grafting, Lithium Ion Batteries, Artificial Muscles, Conducting Polymers.
Current Research Activities	Synthesis & Characterization of Proton Exchange Membranes for Fuel Cells, Graphene based Electrodes & Catalyst Supports for Fuel Cells, Radiation Induced Grafting, Micro-Nanomaterials for Artificial Muscles, Electrodes and Electrolytes for Lithium Ion Batteries, Electrochemical Synthesis & Characterization of Conducting Polymers

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Research Area Keywords	Organic And Inorganic Thin Films, Chemical Vapor Deposition, Fabrication And Characterization Of Polymer Nanostructures, Functional Coatings.
Current Research Activities	Our Current Research Focuses on Stimuli Responsive Polymer Thin-Films and Nanostructures. We Develop Different Types of Stimuli Responsive Polymers and Study Their Response Behavior Under Different Conditions. In Addition To These Fundamental Studies, We Also Fabricate Thin-Films and Polymer Nanostructures With Optimized Response Characteristics For Various Applications, Including Drug-Delivery, Biological Sensors, Responsive Coatings and Separation Membranes.

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Research Area Keywords	Inorganic Nanotubes, Adsorption, Statistical Design Methods, Nuclear Fuel Technology, Nuclear Waste Management, Nuclear Safety, Sol-Gel Method, Hydrothermal Method, Graphene, Chemical Vapor Deposition (CVD).
Current Research Activities	Synthesis and Characterization of Transferable Graphene By Cvd Method For Using Display Application.

İSMET İNÖNÜ KAYA (FACULTY MEMBER)	
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Research Area Keywords	Quantum Transport; Nanoelectronics, Quantum Hall Effect, Graphene, OLED, Displays, Energy.
Current Research Activities	Nanoelectronics With Graphene, Quantum Transport and Interactions in Graphene, Nems Actuators and Sensors, Breakdown of The Quantum Hall Effect, Graphene Based Oled Devices and Displays.

ŞÖLEN KINAYYİĞİT (POSTDOC)	
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Research Area Keywords	Energy, Surface Chemistry, Nanoparticles, Catalysis, Photophysics, Organometallic Chemistry.
Current Research Activities	Design of Nanomaterials and Organometallic Complexes For Targeted Energy Applications (Fischer-Tropsch, Fuel Cell, Solar Energy Conversion), Photophysics, Spectroscopy, Colloidal and Supported Catalysis, Synthesis of Composite Nanomaterials, Surface Investigation of Nanoparticles, Chemosensors.

GÜLLÜ KIZILTAŞ ŞENDUR (FACULTY MEMBER)	
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Research Area Keywords	Topology Optimization, Electromagnetic Metamaterials, Computational Design of Artificial Tissues, Advanced Fabrication of Ceramic-Polymer Composites, Multi-Disciplinary Design Optimization.
Current Research Activities	Dr. Kızıltas's Research Focuses on Computational Design, Topology Optimization and Advanced Fabrication of Polymer-Ceramic Composites With Applications To Electromagnetic Metamaterials and Artificial Tissues. Research Efforts Also Include Development of Mathematical Models and Efficient Computational Procedures For Material Microstructure Design Using Finite Element Methods and Multi-Disciplinary Design Optimization Techniques of Complex Engineering Systems.

**BAHATTİN KOÇ (FACULTY MEMBER)**

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Research Area Keywords	<i>Computer-Aided Design and Manufacturing, Tissue Engineering, Nano/Micro-Scale Modeling and Manufacturing, 3D Printing, Rapid Prototyping and Product Realization.</i>
Current Research Activities	<ul style="list-style-type: none"> <li>- Tissue and Organ Printing Using Computer-Aided Design and 3D Printing (Additive Manufacturing) Techniques.</li> <li>- Development of Patient Specific Customized Implants, Prostheses and Medical Devices.</li> <li>- Novel Methodologies To Design Geometrically and Functionally Complex Multi-Functional Parts and Composites.</li> <li>- Micro-Nano Scale Modeling and Nanomanufacturing Processes For Multi-Functional Devices and Products.</li> </ul> <i>These Research Will Open Up New and Exciting Possibilities in Tissue and Organ Substitutes, Active Nano/Micro Sensors and Devices, Customized Consumer Products With Improved Quality, Environmentally-Friendly Designs and Novel Composite Materials.</i>

**JAVED H. NIAZI KOLKAR (RESEARCHER)**

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Research Area Keywords	<i>Biosensors, Aptamers, Lab-On-Chip, Nanotoxicology, Green Nanotechnology-Bioremediation.</i>
Current Research Activities	<i>Design and Development of Novel Assays For; (A) Biosensor Applications For Early Warning and Diagnosis of Cancers, (B) Employing Synthetic Affinity Ligands As Inhibitory Drugs and For Detecting Disease Biomarkers, Nanotoxicology &amp; Green Nanotechnology- Bioremediation.</i>

**ALİ KOŞAR (FACULTY MEMBER)**

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Research Area Keywords	<i>Two-Phase Flow, Boiling Heat Transfer, MEMS, Cavitation, Microfluidics, Electronics Cooling, Nanofluids, Micro Heat Sinks.</i>
Current Research Activities	<i>Ali Kosar Is One of Few Pioneers in The Design and Development of New Generation Micro Heat Sinks and Microfluidic Devices. His Research Interests Constitute A Wide Spectrum Covering Mems (Microelectromechanical Systems), Heat and Fluid Flow in Micro/Nano Scale, Forced Convection, Two-Phase Flow, and Cavitation. He Aims At Contributing To The Literature By Removing The Lack of Information About Micro/Nano Scale Heat Transfer and Fluid Flow and Providing Experimental Data and Design Guidelines For Futuristic Cooling Technologies. He Has Expertise in Experimental Methods in Heat and Fluid Flow and Phase Change Phenomena In Micro/Nano Scale. He Is Aiming At Contributing To The Scientific Knowledge in Heat and Fluid Flow in Micro/Nano Domains. The Results of His Research Have Already Generated Numerous Journal Research Articles Which Have Been Published in Prestigious Journals Like Journal of Heat Transfer, Journal of Microelectromechanical Systems and International Journal of Heat Transfer.</i>

STUART LUCAS (RESEARCHER)	
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Research Area Keywords	<i>Genomics, Plant Biotechnology, Microbiology, Bioinformatics.</i>
Current Research Activities	<i>Stuart Lucas Brings Experience Ranging From Immunology To Plant Molecular Biology Along With Technical Expertise in Modern Genomics Techniques and Data Analysis To Address Contemporary Challenges in Food Security and Human Health. Current Activities Include Wheat Genome Mapping and Sequencing, Plant Pathogen Genomics, Monitoring of Gmo (Genetically Modified Organism) Crops, and Using Molecular Techniques To Accelerate Crop Breeding Programmes.</i>

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Research Area Keywords	<i>Advanced Ceramic Materials, Crystal Chemistry-Properties Relationship, Phase Relationships.</i>
Current Research Activities	<i>Si<sub>3</sub>N<sub>4</sub> and SiAlON Based Ceramic Materials for Wear Applications (especially as a Ceramic Cutting Tool Material)</i>

YUSUF MENCELOĞLU (FENS, DEAN)	
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Research Area Keywords	<i>Polymer Synthesis, Characterization, Modification and Structure/Property/Application Relationship, Polymerization Kinetics, Fluorinated Polymers, Oligomers and Surfactants (Synthesis And Characterization), Reactions and Extractions in Supercritical Carbon Dioxide, Formulation of Performance Chemicals.</i>
Current Research Activities	<i>Controlled Synthesis/Preparations of Surface Modified Nano Particles, Fibers and Plates and Their Thermoplastic&amp;Thermoset Composites. Understanding The Rheology of Nanoparticles Dispersions in Polymeric Liquids and Melts. Particle/Polymer Interface Interactions.</i>

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Research Area Keywords	<i>Ferroelectric Components in Ic Applications, Phase Transitions in Functional Oxides and Artificially Grown Multilayers / Superlattices, Effect of Defects on Thermodynamics and Phase Transitions Of Crystalline Materials, Semiconducting Properties of Ferroelectrics as Wide Bandgap Systems and Effect Of Impurities on Electrical Properties, Growth and Characterization of Ferroelectric and Multiferroic Films Using Chemical Precursor Methods.</i>
Current Research Activities	<ol style="list-style-type: none"> <li><i>1. Study of Interfaces and Their Impact on Leakage Current in Pure and Doped BiFeO<sub>3</sub> Thin Films.</i></li> <li><i>2. Effect of Ionized Impurities on The Phase Transition Characteristics and Dielectric Response of Ferroelectric Thin Films.</i></li> <li><i>3. Phase Transitions in Multilayered Ferroelectric-Paraelectric Heterostructures.</i></li> </ol>

RAGHU MOKKAPATI (POSTDOC)	
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Research Area Keywords	Graphene, Graphene Integrated Membranes, Graphene Window for Tem, Micro and Nanofluidic Devices, Graphene For Stem Cells.
Current Research Activities	Development of Graphene Integrated Membranes For Ultrafiltration of Body Fluids, Graphene Oxide Integrated Polymeric Membranes For Mbr, New Graphene Transfer Methods, Monolayer Graphene Membrane As Tem Window For Enhanced Live Imaging, Stem Cell Viability and Differentiation on Graphene/Graphene Oxide Membranes.

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Research Area Keywords	Polymer Synthesis, Graphene, Self-Healing Materials, Nanocomposites, Nanocoatings, Electrospinning, Tissue Engineering, Fuel Cells.
Current Research Activities	Multi-Walled Nanofiber Reinforced Self-Healing, Smart Composite Material Production Via Triaxial Electrospinning Technique, Graphene Synthesis and Graphene-Based Polymer Composite Production, Development of Fuel Cell Electrodes, Polymer Synthesis, Characterization and Application, Surface Coatings and Surface Functionalization, Multifunctional Scaffolds For Wound Healing.

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Research Area Keywords	Molecular Cell Biology, Human Genetic Disease, Cell Death Mechanisms, Nanomedicine.
Current Research Activities	Molecular Mechanism of Rare Human Genetic Disease, Drug Delivery Research with Biodegradable Nanoparticles

CLEVA OW-YANG (FACULTY MEMBER)	
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Research Area Keywords	Development of Optical Materials, Electron Microscopy, Controlled Assembly of Nanoparticles, Mechanisms of Extended Phosphorescence, Origin of Wetting; Structure and Properties of Interfaces, Thermodynamics and Kinetics of Phase Transformations.
Current Research Activities	The Common Theme Among The Projects That My Group Focuses on Is The Manipulation and Management of Light Through Materials Engineering. By Harnessing The Unique Phenomena Stemming From Quantum Confinement in A Controlled Manner, We Aim To Create Useful Optical Materials That Can Be Incorporated Into Photonic Devices. We Currently Have Projects Engineering Interlayers For Improve Photon Conversion Efficiency in Organic Solar Cells. Another Set of Activities Are Focused on Understanding The Mechanisms of Extended Phosphorescence in Rare-Earth Co-Doped Alkali Earth Aluminates, in Order To Develop Solutions For More Efficient Energy Consumption. In The Design of New Materials At The Atomic and Nano Scales, We Often Use Advanced Transmission Electron Microscopy Techniques.

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Research Area Keywords	<i>Microelectronics and Nanotechnologies, 3D integration and Packaging, Microsystems and nano systems, Integration of Heterogeneous Systems.</i>
Current Research Activities	<i>Integration of 3D Technologies and Nanotechnologies, Low Power System Implementation Using 3D Integration and Nanoelectronics, Nano To Micro and Macro Interfaces and Nano-Packaging, Miniaturization For Wearable Implantable Biomedical Systems; Cognitive Systems Using Neuromorphic Approaches, Memory-Augmented Processing For High Productivity Computing and Communication.</i>

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Research Area Keywords	<i>Smart Electroactive Materials, Composite Materials, Virtual Testing and Characterization of Materials; Structural Optimization; Experiment-based Optimization and Surrogate Models.</i>
Current Research Activities	<i>Composite Materials Research Is Pursued on Two Routes Based on The Functional Use in Engineering Design and Applications. Structural Composites: Nanoscale Materials Such As Electrospun Nanofibers Are Incorporated Into Conventional Composite Materials Applications To Enhance The Mechanical Properties. The Mechanical Behavior of These Nano-Integrated Hybrid Composites Are Investigated By Multi-Scale Modeling and Experiments. Unconventional Composites Design Practices Are Also Sought By Integrating Finite Element Analyses, Optimization Techniques, Micromechanics of Failure (Mmf) and Durability of Materials/Structures. Design Optimization of Slender Structures Such As Wind Turbine Blades and Wing Structures Are of Particular Interest. Smart Composites: Electroactive Composites For Actuation, Sensing and Energy Harvesting Are Processed and Characterised. Ionic Polymer Metal Composites (Ipmc) and Piezoelectric Ceramic Fiber/ Polymer So Called Macro Fiber Composites (Mfc) Are of Particular Interest. These Materials Are Incorporated in Engineering Applications Such As Micro Air Vehicles.</i>

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Research Area Keywords	<i>Biosensors, Lab-On-Chip, Nanotox Sensors.</i>
Current Research Activities	<i>Detection of Cardiac/Cancer Diseases Biomarkers by Electrochemical Biosensors For Disease Diagnostic Applications. Probing The Cellular Stress Using Bacterial Lab-on- A Chip Platform. Nanomaterial Toxicity by Electrochemical Biosensor. Modification of Polymer Nanocomposites and Nanomaterials by Irradiation</i>

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Research Area Keywords	<i>Graphene, CNT, Graphene Functionalization, Graphene Polypyrrole Nanocomposites, Surface Chemistry, Vapor Phase Deposition Of Polymers, Metal Nanoparticles Synthesis, Metal Nanoparticle Deposition, ALD, Fuel Cells, Batteries and Etc.</i>
Current Research Activities	<i>Dr Veera IsDeveloping Graphene Functionalization and Graphene Integrated Conductive Polymer Nanocomposites For Effective Catalyst Supports For Fuel Cells and Batteries, Metal Nanoparticles Synthesis and Deposition of Metal Nanoparticles For Fuel Cell Electrodes, Gas Diffusion Electrodes For The Next Generation of Fuel Cells and Extended Applications Towards The Next Generation of Batteries.</i>

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Research Area Keywords	<i>Molecular Biophysics; Protein chemistry; Synchrotron Radiation; Metal-binding proteins; G-proteins; Biosensors.</i>
Current Research Activities	<i>Main Goal of Our Research Is To Understand Structure-Function Relationships in Proteins. Current Projects Focus on Two Families of Proteins; Metallothioneins and G-Proteins. Studies on Metallothioneins Aim At Understanding Proteins Involved in Metal Tolerance and Heavy Metal Accumulation in Plants With A View of Environmental Applications. We Are Also Interested in Using Metal-Binding Proteins As Biosensors. Studies on G-Proteins Aim At Understanding The Role of These Protein Complexes in Signal Transduction in Plants Particularly in Relation To Regulation of Draught Response. In Our Research We Use Basic Protein Characterization and X-Ray Scattering and Diffraction Tools.</i>

MELTEM SEZEN (RESEARCHER)	
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Research Area Keywords	<i>Focused Ion Beam (FIB) Technologies, Scanning Electron Microscopy (SEM), 3D Electron Tomography, Nanostructuring and Nanofabrication using Dual-Beam Platforms, Fabrication and Characterization of Organic Optoelectronic Devices, Advanced Electron Microscopy Applications for Dentistry and Food Engineering, Raman Microscopy and Spectroscopy, Hydrogen Storage Materials.</i>
Current Research Activities	<i>Nanofabrication Using Focused Electron and Ion Beams, Electron Microscopy and Spectroscopy Based Characterization, Expertise in Tem Specimen Preparation Via Dual-Beam Platforms, Development of Novel 3D Tem Sample Structuring Methodologies and Advanced FIB and Tem Tomography Applications For Nanoporous Materials (Cost Mp1103 Action), Development of Functional Surfaces on Polymeric Materials Using Electron and Ion Beam (FIB) Modification (Cost Cm1301 Action), Advanced FIB/SEM and Raman Based Nanoanalysis Studies For Preventive Dentistry.</i>

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Research Area Keywords	<i>Polymer Synthesis, Characterization and Structure-Property Relationships; Carbon Nanomaterials; Carbon Nanofibers; Nanoparticles; Lithium Ion Batteries.</i>
Current Research Activities	<i>Development of New Electrode Materials For Rechargeable Lithium Ion Batteries Based on Carbon Nanofibers and Nanoparticles.</i>

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Research Area Keywords	<i>Cell therapy, Gene therapy, Immunotherapy.</i>
Current Research Activities	<i>Identification of Mechanisms Related To Resistance Against Gene Transfer Using Viral Vectors. Design and Optimization of Novel Processes For Human Cell Culture and Genetic Modification. - Genetic Modification of Human Lymphocytes For Adoptive Immunotherapy of Cancer. - Investigation of Immune Cell Derived Exosomes For Use in Cancer Immunotherapy.</i>

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Research Area Keywords	<i>Nonlinear and Motion Control Systems, Mechatronics, Micro/Nano Mechatronics Systems, Automation and Robotics, Power Electronics.</i>
Current Research Activities	<i>Currently Projects on Laser Micromachining Workstation Design, Micro-Part Manipulation Workstation, Vibration Control For Lumped and Distributed Systems, Bilateral Control With Variable Time Delay, Design and Control of Flexure Based Nano-Positioners, Fpga Based High Precision Motion Controller, Software For Reconfigurable Real Time Motion Control Systems, Hierachy and Dynamical Decoupling in Multi-Body Motion Control Systems Are Under Way.</i>

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Research Area Keywords	Renewable & Sustainable Energy Systems, PEM Fuel Cells, PEM Fuel Cell System Design, Proton-Exchange Membranes, Radiation-Induced Grafting, Electrochemistry, Electrode Design.
Current Research Activities	Graphene Based Catalyst Nanoparticle Synthesis, Plasma Induced Surface Modification, Fiber Based Conducting Paper-Like Composite Structures, Green Composites, Nano-Composite Electrode Structures, Synthesis & Characterization of Proton Exchange Membranes For High/Low Temperature PEM Fuel Cell, Dead Ended Anode (DEA) Operation of PEM Fuel Cell, Two Phase Numerical Modeling of PEM Fuel Cell

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Research Area Keywords	Electromagnetic Theory, Nano-Optics, Interaction of Photons with Nanostructures, Surface Plasmons, Computational Electromagnetics, Heat Transfer Modeling, Thermal Analysis, Heat-Sink Design, Thermal Management, Heat Assisted Magnetic Recording, Magnetic and Optical Data Storage.
Current Research Activities	Current Research Activities Include Nano-Optical Transducers, Heat Assisted Magnetic Recording, Near-Field Optics, Electromagnetics, Near-Field Radiative Heat Transfer, Nano-Antennas, Modeling, Design, and Manufacturing of Nano-Optical Systems.

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Research Area Keywords	Biochemistry, Chemistry & Materials Science and Nano Engineering.
Current Research Activities	Environmentally Friendly Synthesis; Energetic Materials; Protein-Based Pharmaceuticals and Formulations; Synthetic Chemistry of Drugs; Surface Modification; Nanoparticle Formulations; Antimicrobial Industrial Products; Technology Transfer. Protein Engineering and Chemical Modification

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Research Area Keywords	Antenna Design, RF Circuit Design, Propagation Modeling, Numerical Methods in Electromagnetics, Geolocation; Algorithms in Wireless Communication Systems.
Current Research Activities	1) Accurate Indoor Gps Positioning System Using Multiple Rf Repeaters and Gps Directional Antennas. Experience To Be Gained: Rf Circuit Design, Antenna Design, Rf Test/Measurement. 2) Reconfigurable Dual Band Microstrip Patch Antenna For Software Defined Radio Applications. Experience To Be Gained: Antenna Design/Simulation, Rf Test/Measurement. 3) X-Band Tunable Lna and Novel Active Phase Shifter Design For Phased Array Antenna Systems. Experience To Be Gained: Rf Simulation, Rf Design, Rf Test/Measurement.

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Research Area Keywords	<i>DNA Nanobiotechnology, Nucleic Acid-Nanoparticle Interactions, Fluorescent Labeling Of Nanoparticles, Antibacterial Nanoparticles, Active Food Packaging Materials, Antibacterial Food Packagaing Materials.</i>
Current Research Activities	<i>Preparation and Characterization of Hybrid Dna-Carbon Nanotube Nanostructures, Fluorescent Labeling of Carbon Nanotubes With Dna Nanostructures, Development of Safe and Active Food Packaging Materials</i>

SERKAN ÜNAL (RESEARCHER)	
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Research Area Keywords	<i>Polymer Chemistry, Polymer Synthesis and Characterization, Structure-Property Relationships in Polymeric Materials, Functional Polymers, Polymeric Nanomaterials, Hyperbranched Polymers, Polymer Emulsions, Polyurethane Chemistry, Surface Coatings, Adhesives, Thermosets, Thermoplastics, Carbon Nanomaterials, Carbon Nanotubes, Structural Composites, Nanocomposites, Lithium Ion Battery Electrodes.</i>
Current Research Activities	<i>Development of Waterborne Polyurethane Dispersions For Coating and Adhesive Applications, Polymeric Membranes As Nanofiltration and Reverse Osmosis Membranes For Water Purification and Desalination Technologies, Nano-Reinforced Structural Fiber-Reinforced Composites, Hybrid Nanostructures For Energy Storage and Conversion Applications.</i>

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Research Area Keywords	<i>Computer Vision, Control Systems, Robotics, Visual Servoing, Unmanned Aerial Vehicles, Mobile Robots, Micro/ Nano Imaging.</i>
Current Research Activities	<i>Dr. Ünel's Current Research Focuses on Mosaicing From Aerial Images, Human Activity Recognition Using Depth Images, Mico/Nano Imaging and Visualization, Modeling and Control of Unmanned Aerial Vehicles (UAV), System Identification and Control Techniques For Diesel Engines, 2D/3D Slam.</i>

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Research Area Keywords	<i>Nanotechnology, Aptamer, Biosensors, Drug Delivery System, Micro Rna, Plant Biotechnology, Molecular Biology.</i>
Current Research Activities	<i>Early Detection of Cancer and Cardiovascular Diseases Biomarkers.</i>

SERHAT YEŞİLYURT (FACULTY MEMBER)	
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Research Area Keywords	<i>Heat Transfer; Fluid Flows; Swimming in Micro Scales; Renewable &amp; Sustainable Energy Systems.</i>
Current Research Activities	<ul style="list-style-type: none"> <li>- <i>Multi-Phase Transport and Deformation of Porous Media, and Applications To Pem Fuel Cells.</i></li> <li>- <i>Efficient Swimming of Organisms and Artificial Structures in Micro Scales Inside Channels and Conduits, Simulations and Experiments For Design and Navigation of Artificial Structures in Conduits.</i></li> <li>- <i>Design and Aerodynamic Optimization of Vertical Axis Wind Turbines.</i></li> </ul>

MEHMET YILDIZ (FACULTY MEMBER)	
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Research Area Keywords	<i>Composite Materials, Structural Health Monitoring, Transport Phenomena, Meshless Computational Fluid Dynamics, Crystal Growth, Semiconductor Materials.</i>
Current Research Activities	<p><i>My Current Research Focuses on The Experimental and Computational Aspects of Materials Processing With Emphasis on Advanced Polymer-Based Composite Materials, and Crystal Growth. I Have Been Conducting Research on Manufacturing Polymer-Based Composite Materials For Applications in Aircraft Structures and Structural Health Management of Fiber-Reinforced Advanced Composite Structures With Embedded Fiber Optic Fbg Sensor Arrays. Within The Framework of My Research on Composite Materials, I Am Also Involved in A Collaborative Research Activity on Nano Particle Integrated Composite Materials. I Am Currently Setting-Up A Crystal Growth Laboratory To Grow Silicon-Germanium Single Crystals From The Silicon Rich-Side of The Phase Diagram. As Well, I Have Been Actively Working on The Development Meshless Computational Fluid Dynamics Algorithms By Using Smoothed Particle Hydrodynamics (Sph) Method For Simulating Complex Engineering Problems Such As Free Surface Flow, Multiphase Flow and Solidification.</i></p>

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Research Area Keywords	<i>Cancer Biology; Signaling; Molecular and Cellular Biology; Therapeutics.</i>
Current Research Activities	<i>The Goal of My Research To Elucidate The Multi Drug Mechanism of Several Abc Transporter Genes in Different Cancer Types Including Breast, Colon, Lung, and Etc. My Research Area Also Focuses on Developing Therapeutic Strategy To Generate New Insight on The Possible Use of Abc Drug Transporter Inhibitors in The Clinic By Providing New Data For A More Efficient Way and/or Combination of Abc Drug Transporter Inhibitors Regimen.</i>

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Research Area Keywords	<i>Nano-Biosensor Development, Production of Synthetic Affinity Agents, Nanomaterial Biofunctionalization, and Microbial Waste Water Treatment.</i>
Current Research Activities	<i>In Vitro Evolution of Synthetic Affinity Agents For Diagnostic and Therapeutic Purposes, Development of Optical, Plasmonic and Electrochemical Aptamer Based Biosensors Based on Nanomaterials, Development of Novel Surface Plasmon Resonance and Electrochemical Techniques For Small Molecule Detection, Improvement of Biochemical Reaction Efficiency By Utilization of Nano-Additives, Surface Chemistry and Biological Assay Development.</i>

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Research Area Keywords	<i>Water Treatment, Photocatalysis, Energy, Li-Ion, Graphene, Hydrogen Storage, Metal Nanoparticles, Metal Oxide Nanoparticles, Zeolites, Carbon.</i>
	<i>Anode Development For High Capacity Li-ion Batteries With Prolonged Life-Cycle; Hydrogen Storage With Graphene/ Metal Nano Particle Composites; Water Treatment Using Semiconductor Photocatalysts, Membranes, and High Surface Area &amp; Porous Adsorbents; Carbon Based Materials Characterization and Coal Chemistry: Development of High Surface Area Zeolites To Be Used in Water Treatment, Energy Area, and Sensors.</i>

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Research Area Keywords	<i>Carbon Materials; Heterogeneous Catalysis; Surface Science; Diffusion Phenomenon, Coal Science.</i>
Current Research Activities	<i>Biogasification of Coal, Exfoliation of Graphene From Graphite, Nano Boron Nitride Synthesis, Separation of Boron and Arsenic From Water, Synthesis of New Mesoporous Catalytic Materials For The Synthesis of Carbon Nanotubes.</i>



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