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This year marks the tenth anniversary of Koç Engineering as the College of Engineering has admitted its first freshman class in the 1999-2000 academic year. In this 10 years, Koç Engineering has become one of the most dynamic and strongest engineering colleges in Turkey. We offer undergraduate (BS) and graduate (MS and PhD) degrees in electrical and electronics engineering, computer engineering, mechanical engineering, industrial engineering, and chemical and biological engineering. Our faculty size has reached 41 and is continuing to grow to further expand our impact on the Turkish academic and industrial research scene. Our faculty members are among the world leaders in their respective research areas and have come to Koç Engineering with significant post-doc, academic and/or industrial experience from the best institutions worldwide.

Our research mission is to create new knowledge in order to advance the state of the art in engineering internationally and to stimulate development of innovative technologies of high societal impact for Turkey. To this effect, we host a number of interdisciplinary research centers and laboratories including Center for Computational Biology and Bioinformatics, Photonics Center, Manufacturing and Automation Research Center, Supply-Chain Research Center, Energy Research Center, Robotics and Mechatronics Lab, Optical Microsystems Lab, Laser Lab, Multimedia, Vision and Graphics Lab, where our faculty from various disciplines collaborate with each other, as well as with industry and government labs and with other universities to share expertise and resources in order to make a bigger impact on the Turkish industry and economy at large.

This guide has been prepared to introduce the research expertise and professional backgrounds of Koç Engineering faculty. In the pages that follow you can find listings of our faculty members organised by departments, by their association with various research centers, as well as their short CVs. I hope that this guide will serve as a useful reference for industrial and government research centers and organizations to establish future collaborations with Koç Engineering. In addition, graduate student applicants may find this guide useful in finding research topics and advisors for their MS and PhD thesis work.

Sincerely,
A. Murat Tekalp
Dean
College of Engineering
## FACULTY TELEPHONE NUMBERS & E-MAIL ADDRESSES

### COLLEGE ADMINISTRATION

<table>
<thead>
<tr>
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<th>E-mail Address</th>
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</table>

### DEAN

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iaksun@ku.edu.tr

### ASSOCIATE DEAN

Fikri Karaesmen, +90-212-338-1718
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### COLLEGE OF ENGINEERING

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<th>Center for Computational Biology &amp; Bioinformatics (CCBB)</th>
<th>Mechanical Characterization Laboratory</th>
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FACULTY BY SPECIALTY

A

ADAPTIVE SIGNAL PROCESSING
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Mehmet Sayar

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Özgür B. Akan

VACUUM INFUSION (VI) PROCESS
E. Murat Sözer
VIBRO-ACOUSTICS ANALYSIS AND TESTING
İpek Başdoğan

VIDEO PROCESSING
A. Murat Tekalp

VORTEX SHEET METHOD
E. Murat Sözer

WIRELESS COMMUNICATIONS
Özgür B. Akan, Sinem Çöleri Ergen

WEB SEARCH
Emine Yılmaz
Ph.D., Georgia Institute of Technology, Electrical and Computer Engineering, 2004; M.Sc., METU, Electrical and Electronics Engineering, 2002; B.Sc., Bilkent University, Electrical and Electronics Engineering, 1999

Professor Akan teaches communication theory, telecommunications, and communication networks, wireless communications, information theory, signal processing, quantum communications, space communications, probability theory. His recent research focuses on wireless communications, nanoscale communications, space communications, cognitive radio, quantum communications, information theory, signal processing, underwater acoustic communications.

SELECTED PUBLICATIONS
M. Arik, O. B. Akan, “Collaborative Mobile Target Imaging in UWB Wireless Radar Sensor Networks,” IEEE Journal on Selected Areas in Communications (JSAC), vol. 28, no. 6, pp. 950-961, August 2010

EDITORIAL BOARDS
Associate Editor, IEEE Transactions on Vehicular Technology
Editor, Nano Communication Networks Journal (Elsevier)
Editor, International Journal of Communication Systems (Wiley)
Editor, ICST Transactions on Bio-Engineering and Bio-inspired Systems
Editor (past), ACM Wireless Networks (WINET) Journal (2004-2010)
Area Editor (past), AD HOC Networks Journal (Elsevier) (2004-2008)

GRANTS and CONSULTING
"Nanoscale and Quantum Communication Networks," TÜBİTAK, April 2010-April 2013
"NanoNets: Theory and Algorithms for Nano-Scale Communication Networks," IBM Faculty Award, December 2008-December 2010

PROFESSIONAL EXPERIENCE
Academic
Sept. 2010-present; Associate Professor, Dept. of Electrical and Electronics Engineering, Koç University
Sept. 2006-Aug. 2010, Associate Professor, Dept. of Electrical and Electronics Engineering, METU
July 2004-Sept. 2006, Assistant Professor, Dept. of Electrical and Electronics Engineering, METU
Jan. 2002-May 2004, Graduate Research/Teaching Assistant, School of Electrical & Computer Engineering, Georgia Institute of Technology
Industry Experience
1999-2002, Network Engineer, IT Department, Türkiye İş Bankası

HONORS and AWARDS
“Distributed Nanoscale Quantum Computing Architectures”, IBM Faculty Award, August 2010-August 2011
Middle East Technical University Thesis Advisor of the Year Award 2010, METU (2010)
“Nano-scale Molecular and Quantum Communications”, Turkish Academy of Sciences (TÜBA-GEBİP Award), June 2008-June 2011
Turkish Academy of Sciences (2008)
IBM Faculty Award, IBM (2008)
Middle East Technical University Outstanding Young Researcher Award 2008, METU (2008)
Senior Member, IEEE (Communication Society)
Editor of the Year Award, AD HOC Networks Journal (Elsevier Science), (2006)
Parlar Foundation Research Encouragement Award, Prof. Mustafa Parlar Foundation, METU (2006)
TUBITAK-Career Award, The Scientific & Technological Research Council of Turkey, (2005)
Researcher of the Year 2003 Award, Broadband and Wireless Networking Laboratory, School of Electrical and Computer Engineering, Georgia Institute of Technology, (2003)
Bilkent University Scholarship, Bilkent University, (1994-1999)
Ranked 11th in the Turkish nationwide university entrance exam among more than a million high-school graduates (1994)

MEMBER
Senior Member, Institute of Electrical and Electronics Engineers (IEEE) (Communications Society)
Publications Committee Councilor, Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (ICST)
Member of Executive Board, TUBITAK-ULAKBIM
Vice President, IEEE Communication Society-Turkey Section
Senior Member, IEEE Communication Society (IEEE ComSoc)
Key Member, IEEE Technical Committee on Multimedia Communications Interest Group
Founding Member, IEEE Technical Subcommittee on Nano-scale and Quantum Communications
Member, Association for Computing Machinery (ACM)
Member, Chamber of Electrical Engineers (EMO)
Ph.D. in Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, 1990; M.Sc. in Electrical and Electronics Engineering, Middle East Technical University, 1983; B.Sc. in Electrical Engineering, Middle East Technical University, 1981

Professor Aksun teaches electromagnetics, microwave engineering, antennas and propagation, nanophotonics. His recent research focuses on the areas of characterization of layered media; computational optics; development of efficient CAD software for planar geometries; design and analysis of multi-function microstrip antennas; study and application of numerical techniques

SELECTED PUBLICATIONS


PROFESSIONAL EXPERIENCE

Academic

9/09-Present Vice President for Research and Development, Koç University

5/04-9/09 Dean of Engineering, Koç University

9/01-Present, Professor of Electrical & Electronical Engineering, Koç University

1/99-9/01, Professor, Bilkent University

7/94-1/99, Associate Professor, Bilkent University

9/92-7/94, Assistant Professor, Bilkent University

Industry Experience

1/84-1/85, Electronic Maintenance Engineer, Arabian Cement Company

6/81-9/82, Research Engineer, Aselsan Military Electronic Ind

HONORS and AWARDS

Best Paper Award in ION GPS-92

ION Satellite Division’s 5th International Meeting Sept. 1992

TÜBİTAK (Turkish NSF) Scientific Encouragement Award July 1994

Bilkent Distinguished Teaching Award-2001 Recipient


TÜBİTAK (Turkish NSF) Science Award July 2007

MEMBER

IEEE Senior Member
B. ERDEM ALACA
Assistant Professor of Mechanical Engineering

MEMS/NEMS
MATERIALS BEHAVIOR/ SMALL-SCALE TESTING

SOLID MECHANICS (FRACTURE, FATIGUE, PLASTICITY)
THIN FILMS/ INTERFACES

Ph.D. in Mechanical Engineering, University of Illinois at Urbana-Champaign, 2003; M.S. in Mechanical Engineering, University of Illinois at Urbana-Champaign, 1999; B.S. in Mechanical Engineering, Boğaziçi University, 1997

Professor Alaca teaches micro and nanofabrication; mechanics of MEMS; engineering materials; microstructure-property relations. His recent research focuses on the areas of development of batch-compatible fabrication techniques for micro-nano integration; fabrication and properties of self-assembled nanowires; fabrication of nanotweezers & nanomanipulation, biosensors for drug detection; fatigue and fracture of nanoscale films using bulge testing; multilayer fracture.

SELECTED PUBLICATIONS

GRANTS and CONSULTING
Fabrication of Nanotweezers by Self-Assembly, Career Award, The Scientific and Technological Research Council of Turkey, TÜBİTAK, Principal Investigator, 2005-2010
Biosensor for Narcotics, Research Project (Program Code: 1001), The Scientific and Technological Research Council of Turkey, TÜBİTAK, Principal Investigator, 2006-2009

PROFESSIONAL EXPERIENCE
Academic
Assistant Professor of Mechanical Engineering, 01/2004-present, Koç University
Graduate Research Assistant, 08/2003-12/2003, University of Illinois
Graduate Teaching Fellow, 08/2002-08/2003, University of Illinois
Graduate Research Assistant, 01/1998-08/2002, University of Illinois
Graduate Teaching Assistant, 08/1997-12/1997, University of Illinois

HONORS and AWARDS
Turkish Academy of Sciences, Distinguished Young Scientist Award, 2009
University of Illinois “An Incomplete List of Teachers Ranked as Excellent By Their Students”, Fall 2002
Alumni Association Teaching Fellow Award for the Academic Year 2002-03, Department of Mechanical and Industrial Engineering, University of Illinois at Urbana-Champaign

MEMBER
TUMTMK
ASME
IEEE
Ph.D. in Chemical Engineering, University of Minnesota, 1979; M.S. in Chemical Engineering, University of Minnesota, 1976; B.S. in Chemical Engineering, Boğaziçi University, 1974

Professor Arkun’s research interests are in process modeling and control. His recent research focuses on the areas of dynamics and control of biological systems, nonlinear systems, model predictive control, design, optimization, and systems engineering.

SELECTED PUBLICATIONS

EDITORIAL BOARDS
Journal of Process Control

GRANTS and CONSULTING
US-Turkey Cooperative Research Project: Studies on the Folding of Protein Dynamics (with A. Palazoğlu, B. Erman and A. Gürsöy), National Science Foundation

Real-time Optimization and Control of Hydrocrackers (with C. Erkey), TÜPRAŞ

PATENTS
Control system for cross-directional profile sheet formation. US patent 6,026,334

PROFESSIONAL EXPERIENCE
Academic
Professor of Chemical and Biological Engineering, Koç University, 1999- present
Provost, Koç University, Nov. 2003-2009
Dean of Engineering, Koç University, September 1999- November 2003
Professor, Georgia Institute of Technology, 1991 - 1999
Associate Professor, Georgia Institute of Technology 1985 - 1991
Assistant & Associate Professor, Rensselaer Polytechnic Institute, 1979 – 1985

Industry Experience
Consulting at Tennessee Eastman, DuPont, Weyerhaeuser

HONORS and AWARDS
Donald P. Eckman Award, presented by the American Automatic Control Council in recognition of outstanding contributions in the field of automatic control, 1986
Outstanding Teacher Award, presented by the AIChE Student Chapter of Georgia Tech., 1986
TÜBİTAK (Turkish Scientific and Technological Council) Science Award, 2003
Somer Professional Award in Chemical Engineering given by Middle East Technology University, October, 2003
TÜBA (Turkish Academy of Sciences) member, Dec. 2005
AIChE Fellow

MEMBER
AIChE
Ph.D. in Mechanical Engineering, Southern Methodist University, 1994; M.Sc. in Mechanical Engineering, Middle East Technical University, 1991; B.Sc. in Mechanical Engineering, Middle East Technical University, 1989

Professor Başdoğan teaches dynamic modeling and control, machine design, robotics, computer based modeling and simulation. His recent research focuses on the areas of human-machine interfaces, haptics (sense of touch) and applications, robotic manipulation of micro/nano objects, control systems applications in nano-technology, biomechanics, biomedical engineering, medical simulation and robotics, 3D registration, visualization, and physics-based simulation and multi-modal virtual environments.

SELECTED PUBLICATIONS


EDITORIAL BOARDS
Member of the Editorial Board
Associate Editor of IEEE Transactions on Haptics
Associate Editor of Computer Animation and Virtual Worlds
Reviewer for Conferences

Member of the Program Committee
ACM Virtual Reality Software and Technology (2007)

Member of the Organizing Committee
IEEE Haptics Symposium (Associate Editor, 2006, 2008, 2010, Demonstrations and Exhibit Chair 2008, Publications Chair 2010), EuroHaptics (Associate Editor, 2010), World Haptics (General Chair, 2011)

GRANTS and CONSULTING
Characterization of tissue properties and their integration into surgical simulators, TÜBİTAK (Turkish Science Foundation), 04/05-04/10 (PI)
Multimodal Shared Virtual Environments for Robust Rover Autonomy, NASA-Autonomy Program, 09/00-09/01 (PI)
Haptics in Space Exploration, NASA-Autonomy Program, 09/99-09/00 (PI)
Integration of Touch Feedback in Virtual Reality Based Training Systems for Minimally Invasive Procedures, 08/1998-08/01, Harvard Medical School, (Co-PI)
Surgical Simulation for Limb Trauma Management, ARPA, Technology Reinvestment Program, 06/94 - 06/96, (Investigator)
Analysis of Human Joint Kinematics Following a Medium Duration Space Flight, NASA, 06/94 - 09/94, Summer Research Grant, (Summer Research Fellow)

PATENTS
Başdoğan, C., Ho, C, 2001, System integration and development of set-up for simulating minimally invasive surgical procedures in virtual environments, NTR No. 21192, JPL/Caltech

PROFESSIONAL EXPERIENCE
Academic
06/2009 – Present, Associate Professor of Mechanical Engineering, College of Engineering, Koç University
09/2002 – 06/2009, Assistant Professor, College of Engineering, Koç University
10/1999 – 09/2002 Senior Member of Technical Staff, Information Technologies and Software Systems Division Jet Propulsion Laboratory, California Institute of Technology
06/1996 - 10/1999 Research Scientist, Research Laboratory of Electronics, Electrical Engineering and Computer Science, Massachusetts Institute of Technology
06/1997 – 06/1998 Research Fellow, Center for Innovative Minimally Invasive Therapy, Massachusetts General Hospital, Harvard Medical School
09/1991 - 06/1994 Research Assistant, Mechanical Engineering Department, Southern Methodist University
07/1992 - 02/1994 Research Assistant, Mobility Research and Assessment Laboratory, Southwestern Medical Center, The University of Texas

Visiting Academic Positions
06/1994 - 09/1994 Visiting Scientist, NASA-Johnson Space Center, Houston

Industry Experience

HONORS and AWARDS
The Frederick E. Terman Award, 1992-1993, for academic achievement in Mechanical Engineering, Southern Methodist University
Ph.D. in Mechanical Engineering, University of Illinois at Chicago, 1997; M.Sc. in Mechanical Engineering, Southern Methodist University, 1994; B.Sc. in Mechanical Engineering, Middle East Technical University, 1991

Professor Başdoğan teaches theory of vibration, introduction to mechanical engineering design, mechanical engineering laboratory, introduction to engineering, heat transfer. Her recent research focuses on the areas of modeling and design of mechanical systems, micro-electro mechanical systems, dynamics and structural analysis, vibration isolation and controls-structure interactions, vibro-acoustic analysis, vibration testing and experimental analysis.

SELECTED PUBLICATIONS
I. Veryeri and İ. Başdoğan, “Adjusting the Vibratory Response of a Micro Mirror via Position and Velocity Feedback” accepted to Journal of Vibration and Control, August, 2009

GRANTS and CONSULTING

PROFESSIONAL EXPERIENCE
Academic
09/2002-Present, Assistant Professor of Mechanical Engineering, Koç University
12/2000-08/2002 Senior Member of Engineering Staff, Jet Propulsion Laboratory (NASA), California Institute of Technology
10/1997 – 11/2000 Member of Engineering Staff, Jet Propulsion Laboratory (NASA), California Institute of Technology
06/1995 - 09/1997 Laboratory Graduate, Argonne National Laboratory-Advanced Photon Source
06/1995-08/1996 Research Assistant, Mechanical Engineering Department, University of Illinois at Chicago
08/1994-06/1995 Teaching Assistant, Mechanical Engineering Department, University of Illinois at Chicago
01/1994-06/1994 Intern Engineer, CAD-Design Services, Dallas
09/1992 - 08/1994 Teaching Assistant, Mechanical Engineering Department, Southern Methodist University

HONORS and AWARDS
Level C Technical Achievements Bonus Award (Jet Propulsion Laboratory-Caltech, 2000)
NOVA Technical Achievements Award (Jet Propulsion Laboratory-Caltech, 1999)
Summer Research Aide, Argonne National Laboratory, 06/95-09/95
Laboratory Fellowship, Argonne National Laboratory, 09/95-09/97

MEMBER
ASME
Society of Mechanical Engineers
MULTI-SCALE EXPERIMENTAL AND COMPUTATIONAL MECHANICS OF MATERIALS WITH EMPHASIS ON HIGH-STRENGTH STEELS, MECHANICALLY ACTIVE MATERIALS, ULTRA-FINE GRAINED MATERIALS, AND BIOMATERIALS

Ph.D., University of Illinois at Urbana-Champaign, Mechanical Engineering, 2005; M.Sc., University of Illinois at Urbana-Champaign, Mechanical Engineering, 2001; B.Sc., Middle East Technical University, Mechanical Engineering, 2000

Professor Canadiç teaches metal framing; finite element analysis, solid mechanics, elasticity, plasticity, micromechanics, crystal plasticity, and the use of mechanics and materials in medicine. His recent research focuses on the areas of materials behavior; multi-scale experimental and computational mechanics of materials; mechanically active materials and shape memory alloys; ultrafine-grained materials; biomaterials and high-strength steels.

SELECTED PUBLICATIONS

GRANTS and CONSULTING
01/2007-06/2007 American Association of Railroads (as a part of a University of Illinois team)
ALPER DEMİR
Associate Professor of Electrical and Electronics Engineering

Ph.D. in Electrical Engineering and Computer Sciences, University of California, 1997; M.S. in Electrical Engineering and Computer Sciences, University of California, 1994; B.S. in Electrical Engineering, Bilkent University, 1991

Professor Demir teaches electrical and computer engineering, numerical methods and simulation, stochastic dynamical systems. His recent research focuses on the areas of computational prototyping of electronic, opto-electronic and biological systems, numerical modeling and analysis, stochastic dynamical systems, noise in nonlinear electronic, optical, communication and biological systems, design technologies for electronic and biological systems.

SELECTED PUBLICATIONS
A. Demir, non Monte Carlo Formulations and Computational Techniques for the Stochastic Nonlinear Schrödinger Equation, Journal of Computational Physics, November 2004

EDITORIAL BOARDS
ACM/IEEE Design Automation Conference (DAC), Technical Program Committee Member, 2008-2010; Asia and South Pacific Design Automation Conference (ASP-DAC), Technical Program Committee Member, 2008-2010

GRANTS and CONSULTING
Technical Advisory Board Member for Silicon Valley Startup, Berkeley Design Automation, Inc. August 2004 - present
Scientific and Technical Research Council of Turkey (TÜBİTAK) Career Award, 2005-2010

PATENTS
ALPER DEMİR


PROFESSIONAL EXPERIENCE

Academic
Associate Professor of Electrical and Electronics Engineering, Koç University, December 2007–present
Assistant Professor, University, February 2002–December 2007
Graduate Student Researcher, University of California, Berkeley, May 1992–January 1997
Graduate Student Instructor, University of California, Berkeley, Fall 1996

Visiting Academic Positions
Visiting Professor, University of California, Berkeley, September 2009–September 2010
Visiting Scientist, Research Laboratory of Electronics, MIT, July-August 2002, August 2005

Industry Experience
Member of Technical Staff, Design Principles Research Department, Bell Laboratories Research, Lucent Technologies, January 1997–November 2000

HONORS and AWARDS
TÜBITAK 2219 Research Fellowship, Scientific and Technological Research Council of Turkey, 2009
Young Scientist Award, Scientific and Technological Research Council of Turkey (TÜBITAK), 2007
Distinguished Young Scientist Award, Turkish Academy of Sciences, 2003
Best paper award, for the paper “Time-Domain non-Monte Carlo Noise Simulation for Nonlinear Dynamic Circuits with Arbitrary Excitations” in The Best of ICCAD: 20 years of excellence in computer-aided design, 2002
Regents Fellowship, University of California, Berkeley, 1991-92
Eugene C. and Mona Fay Gee Fellowship, University of California, Berkeley, 1991-92
One of the four NATO Honorary Fellows in Electrical Engineering selected by the Scientific and Technical Research Council of Turkey, 1991

MEMBER
IEEE
Ph.D. in Electrical Engineering, Stanford University, 1999; MS in Electrical Engineering, Stanford University, 1995; BS in Electrical Engineering, Middle East Technical University, 1993

Professor Erdoğan teaches systems and control theory, estimation theory, advanced digital signal processing, numerical methods, introduction to engineering. His recent research focuses on the areas of adaptive signal processing, blind source separation, independent component analysis, fiber optical communications, system and estimation theory and optimization.

SELECTED PUBLICATIONS


“MIMO Decision Feedback Equalization from an H1 Perspective”, Alper T. Erdoğan, Chung-Li Lu and Bijit Halder (Issued)

US 20030235245: “Method and system for computing pre-equalizer coefficients”, Alper T. Erdoğan, Bijit Halder and Tzu-Hsien Sang (Issue)

US 20030202612: “Method and system for rate enhanced SHDSL”, Bijit Halder, Debojyati Pal and Alper T. Erdoğan (Pending)

US 20030118177: Method and system for implementing a reduced complexity dual rate echo canceller Ahmet Karakas, Alper T. Erdoğan and Bijit Halder (Pending)

US 20030112966: “Method and system for implementing a reduced complexity dual rate echo canceler”, Bijit Halder and Alper T. Erdoğan (Pending)

US 20030112887: “Method and system for implementing weighted vector error echo cancelers”, Tzu-Hsien Sang, Alper T. Erdoğan and Bijit Halder (Pending)

US 20030112861: “Method and system for adaptively training time domain equalizers”, Alper T. Erdoğan, Bijit Halder, Tzu-Hsien Sang (Pending)

US 20030112860: “Method and system for shortening channel impulse response using time domain equalization ‘Iter’, Alper T. Erdoğan (Pending)

PROFESSIONAL EXPERIENCE

Academic

December 2007-present, Associate Professor of Electrical Engineering
and Electronics Engineering, Koç University
2002 – December 2007, Assistant Professor, Koç University,

Industry Experience
1999 – 2001, Principal Research Engineer, Globespan-Virata
(Excess Bandwidth) Corp.

HONORS and AWARDS
TÜBİTAK Incentive Award (2010)
TÜBA GEBİP Award (2008)
Werner Von Siemens Excellence Award (2007)
Awarded “Doçent” Title by Higher Education Council of
Turkey (2006)
Co-author for the 3rd ranked paper in IEEE SIU Best
Student Paper; Award (Recipient: Turgut Oktem) (2006)
EURASIP Nonlinear Signal and Image Processing Workshop
Best Student Paper Award (1999)
Hugh Hildreth Skilling Award for Outstanding Teaching
Assistant in Electrical Engineering in Stanford University
(1997)

MEMBER
IEEE
Ph.D., Chemical Engineering, Texas A&M University, 1989; M.Eng., Chemical Engineering, University of Bradford, 1985; B.S., Chemical Engineering, Boğaziçi University, 1984

Professor Erkey teaches mass transfer, sustainable energy, transport phenomena, separations. His recent research focuses on the areas of nanostructured materials, energy, supercritical fluids.

SELECTED RECENT PUBLICATIONS


EDITORIAL BOARDS
Journal of Supercritical Fluids

GRANTS and CONSULTING
Novel Nanocomposite Materials via Supercritical Impregnation by Organometallic and Conducting Compounds; TÜBİTAK; 9/01/09 – 8/31/11

Development of Aerogel Based High Performance Insulating Materials; TÜBİTAK; 9/01/07 – 8/31/10

Use of Supercritical Fluids in Development of Microfluidic Reactor Systems; US Army CECOM; 09/01/04 – 08/31/05

Investigation of Attrition Resistance of Supported Precious Metal Catalysts; NASA-EPSCOR; 06/01/04 – 05/31/05

Preparation of Pt/SiO2 Catalysts by Supercritical Deposition; Hamilton Sundstrand/UTC; 06/01/03 – 07/01/03

Supercritical Fluid Aided Preparation of PLGA Nanospheres; National Science Fundation; 1/01/03 – 12/31/04

Aerogel Based Catalysts for Hydrodesulfurization of Diesel for Polymer Electrolyte Membrane Fuel Cells; US Army CECOM; 1/01/03 – 5/31/04

Development of a Diesel Fuel Processor for Integration into a 1kW Portable PEM Fuel Cell System; US Army CECOM; 1/01/02 – 12/31/02

Synthesis of Metal-Aerogel Nanocomposites Using Supercritical Carbon Dioxide; ICA; 6/1/01 – 12/31/02

Chemical Engineering at the Nanoscale – REU; National Science Foundation; 2/1/02 – 12/31/04

Processing of Inorganic Materials using Supercritical Fluids; Norton/St. Gobain; 6/1/00 – 5/30/04

Development of a Catalytic Reaction Engineering Experiment for the Undergraduate Laboratory; University of Connecticut School of Engineering; 1/1/00 – 12/31/00

A Novel Approach to Design of Homogeneous Catalysts; NSF; 6/1/00 - 5/30/01

Synthesis of Nanoparticles in Supercritical Carbon Dioxide; Connecticut Innovations, Inc; 1/1/99 - 5/31/01

Supercritical Fluid Processing of Electrically Conductive...
Elastomer Foams; Yankee Ingenuity Initiative, Connecticut Innovation, Inc.; 6/1/98 - 5/30/00

PATENTS

PROFESSIONAL EXPERIENCE

Academic
Professor of Chemical and Biological Engineering, September 2006 – present, Department of Chemical and Biological Engineering, Koç University
Professor, August 2006, Department of Chemical, Materials and Bimolecular Engineering, University of Connecticut
Department Head, December 2005 – September 2006, Department of Chemical, Materials and Biomolecular Engineering, University of Connecticut
Associate Professor, August 2001 – August 2006, Chemical Engineering Department, University of Connecticut
Assistant Professor, September 1995 – July 2001, Chemical Engineering Department, University of Connecticut
Research Scientist, 1989 - 1994, Chemical Engineering Department, Texas A&M University

Visiting Academic Positions
Visiting Professor, September 2004 – August 2005, Bordeaux Institute of Condensed Matter Chemistry - CNRS, Supercritical Fluids - Group XI
Visiting Assistant Professor, June 1994 - August 1995, Chemical Engineering Department, Texas A&M University

HONORS and AWARDS
Rogers Outstanding Teacher Award, University of Connecticut, Department of Chemical Engineering (1998; 2001)
Best fundamental paper award for 1993 (Southwest Section of the American Institute of Chemical Engineers)
BURAK ERMAN
Professor of Chemical and Biological Engineering

COMPUTATIONAL BIOPHYSICS
MATERIALS SCIENCE
PHYSICAL CHEMISTRY

Ph.D. in Materials Science, Istanbul Technical University, 1974; MS in Civil Engineering, Robert College, 1968; BS in Civil Engineering, Robert College, 1966

Professor Erman teaches thermodynamics, bioinformatics. His recent research focuses on the areas of computational biophysics, materials science, physical chemistry.

SELECTED PUBLICATIONS

EDITORIAL BOARDS
Open Structural Biology Journal

PATENTS

PROFESSIONAL EXPERIENCE
Academic
Fall 2002-present, Koç University, School of Engineering,

Professor of Chemical and Biological Engineering
1998-2002, Sabancı University, School of Engineering and Natural Sciences, Professor
1982-98, Boğaziçi University, School of Engineering, Professor
Professor Erman has also worked in the research group of Prof. P.J. Flory at Stanford University and IBM Research, San Jose, at various intervals between 1976-1985
1978-82, Boğaziçi University, School of Engineering, Associate Professor
1972-78, Boğaziçi University, School of Engineering, Assistant Professor
1970-72, Robert College, School of Engineering, Instructor

HONORS and AWARDS
1982 TÜBİTAK Encouragement Award
1991 Simavi Science Award
1991 TÜBİTAK Science Award
2007 George Stafford Whitby Award

MEMBER
TÜBA
Biophysical Society
American Physical Society
ENGİN ERZİN
Associate Professor of Computer Engineering

SIGNAL PROCESSING
SPEECH PROCESSING

Ph.D. in Electrical and Electronics Engineering, Bilkent University, 1995; MS in Electrical and Electronics Engineering, Bilkent University, 1992; BS in Electrical and Electronics Engineering, Bilkent University, 1990

Professor Erzin teaches digital systems design, microprocessors, digital speech and audio processing, random processes. His recent research focuses on the areas of speech signal processing, pattern recognition, human-machine interaction and affective computing.

SELECTED PUBLICATIONS


GRANTS and CONSULTING
TÜBİTAK Project : Cost Action 2102: Cross Modal Analysis of Verbal and Nonverbal Communication, 2008-2010
TÜBİTAK Project : Joint Processing of Throat-, Bone- and Acoustic-Microphone Recordings for Robust Speech Recognition, 2005-2008

PATENTS
E. Erzin, “Speech Coding and Decoding in a Voice Communication System”, pending

PROFESSIONAL EXPERIENCE

Academic
July 2009 - present; Associate Professor of Computer Engineering, Koç University
Jan 2001 - June 2009; Assistant Professor of Computer Engineering, Koç University

Visiting Academic Positions

Industry Experience
Oct. 1997-Dec. 2000: Member of Technical staff at Wireless Technology Laboratory, Lucent Technologies
Sept. 1996-Oct. 1997: Member of Technical staff at Consumer Products, Lucent Technologies

MEMBER
IEEE - Institute of Electrical and Electronics Engineering (S’88-M’96-SM’06)
ISCA - International Speech Communication Association (2001 - )
Ph.D. Electrical Engineering and Computer Sciences, University of California, 2005; M.S. Electrical Engineering and Computer Sciences, University of California, 2002; B.S. Electrical Engineering and Computer Sciences, Bilkent University, 2000

Prof. Ergen’s teaching interests are digital communication, wireless communication, probability, stochastic processes, communication networks. Her recent research focuses on the areas of wireless sensor networks, wireless communication, ad hoc networks, collaborative signal processing, optimization, transportation.

SELECTED PUBLICATIONS


PATENTS


PROFESSIONAL EXPERIENCE

Academic

Assistant Professor of Electrical and Electronics Engineering, Koç University, September 2009-present

Postdoctoral Researcher, University of California, January 2006-June 2006

Graduate Student Researcher, University of California, August 2000-December 2005

Graduate Student Instructor, University of California, Spring 2002
SİNEM ÇÖLERİ ERGEN

Industry Experience
Research Intern, National Semiconductor, San Jose, CA, June 2004 - August 2004
Part-Time Engineer, ASELSAN, Ankara, Turkey, October 1999- May 2000

HONORS and AWARDS
Regents Fellowship, University of California Berkeley, 2000-2001
Scholarship, Bilkent University, 1995-2000

MEMBER
IEEE
ATTILA GÜRSOY
Professor of Computer Engineering

COMPUTATIONAL BIOLOGY AND BIOINFORMATICS
PARALLEL COMPUTING

Ph.D. Computer Science, 1994, University of Illinois at Urbana-Champaign; M.Sc. Computer and Information Sciences, 1988, Bilkent University, B.Sc. Computer Engineering, 1986, Middle East Technical University

Professor Gürsoy teaches parallel programming, algorithms for computational biology, data structures, and software engineering. His recent research focuses on computational biology and bioinformatics, parallel and distributed high performance computing. He is particularly interested in network models of protein interactions, protein informatics, and their application in diseases and drug design. In the area of parallel programming, his work concentrates on parallel programming patterns, techniques for programming multi-core computers, design and development of high performance parallel/distributed algorithms for computational biology.

SELECTED PUBLICATIONS

GRANTS and CONSULTING
TÜBİTAK Research Grant, 2010-2012 Protein-interface-protein: A new model for representing protein-protein interaction networks, principal investigator
TÜBİTAK Research Grant, 2009-2012, Extracting structural protein-protein interaction networks to analyze cancer-related proteins and their signaling pathways, co-investigator
DPT-Cancer Drug Technologies, 2006-2009, co-investigator
FP6-SEEGRID Computational Biology Applications, co-investigator, 2006-2008
TÜBİTAK Research Grant, 2005-2008, Protein-protein interactions, co-investigator
TÜBİTAK-NSF Research Grant, 2004-2007, Studies on protein folding, co-investigator
TÜBİTAK Research Grant, 1997-1999, Development of algorithms and parallel object-oriented programming techniques for SMP clusters, principal investigator

PROFESSIONAL EXPERIENCE
Professor of Computer Engineering, Koç University, Feb 2010 - present
Associate Professor Computer Engineering Dept., Koç University, Feb 2006 - 2010
Assistant Professor Computer Engineering Dept., Koç University, Sep 2002 - Feb 2006
Assistant Professor Computer Engineering Dept., Bilkent University, Sep 1996 - Sep 2002
Postdoctoral Research Associate Theoretical Biophysics Group, Beckman Institute, University of Illinois at Urbana-Champaign, March 1994 - Aug 1996

HONORS and AWARDS
Werner-von-Siemens Excellence Award for Science and Innovation, 2005
NATO Science Scholarship for Ph.D TÜBİTAK, Turkey, 1988-1991

MEMBER
IEEE
ACM
ISCB
Ph.D. in Stanford University, 1977; M.Sc.; B. Sc. in Electrical and Electronics Engineering, Middle East Technical University, 1973; 1972

Professor İnan teaches courses on engineering electromagnetics and electromagnetic waves, elementary plasma physics, and numerical electromagnetics. He has also taught courses on Fourier transforms and applications, microwave engineering, antennas and statistical signal processing.

While at Stanford, Professor İnan served as principal investigator on many research grants, on topics including (i) optical observations of high altitude plasma discharges and luminous emissions known as sprites and elves, (ii) ground based VLF remote sensing of lightning-induced disturbances in ionospheric plasma and precipitation of energetic electrons at multiple sites across the United States, Canada and Antarctica, (iii) studies of HF radio wave heating of ionospheric plasma, (iv) interpretation of plasma wave and energetic particle data from low and high altitude satellites, (v) theoretical modeling of gyro-resonant wave-particle interactions in the magnetosphere, (vi) ELF/VLF observations of plasma waves at unmanned observatories in Antarctica and on ocean-based autonomous buoys, and (vii) investigations and computer simulation of energy efficiency of plasma display panels.

SELECTED PUBLICATIONS
Author of 302 refereed scientific/technical papers
1st author on 52 papers; 2nd author on 165 papers (mostly with PhD student as first author)

PROFESSIONAL EXPERIENCE
9/09 - present President, Koç University
9/09 - present Professor of Electrical and Electronics Engineering, Koç University
9/97- 9/09 Director, Space, Telecommunications and Radioscience (STAR) Laboratory
9/92 - present Professor of Electrical Engineering, Stanford University
9/85-8/92 Associate Professor of EE, Stanford University
9/82-8/85 Assistant Professor of EE, Stanford University
4/81-8/82 Acting Assistant Professor of EE, Stanford University
2/81-3/81 Research Associate, EE Dept., Stanford University
9/80-1/81 Assistant Professor of EE, Boğaziçi University, İstanbul, Turkey
9/78-8/80 Acting Assistant Professor of EE, Stanford University
9/77-8/78 Research Affiliate & Post-doctoral Fellow, EE Dept., Stanford University

PATENTS

HONORS and AWARDS
TÜBİTAK Special Award (2010)
Fellow of the American Physical Society (APS) December, 2009
Allan Cox Medal of Stanford for Faculty Excellence in Fostering Undergraduate Research, June 2007
Fellow of the American Geophysical Union (AGU), December 2006
Fellow of the Institute of Electrical and Electronics Engineers (IEEE), November 2006
European Space Agency (ESA) Certificate of Recognition (CLUSTER), September 2005
Stanford Tau Beta Pi Award for Excellence in Undergraduate Teaching, June 1998
Antarctic Mountain Named “Inan Peak” (78.333 S, 162.633 E) in Recognition of Service, 1994
Outstanding Service Award of the EE Department for Excellence in Teaching, June 1978
Professor Karaesmen teaches probability and statistics, supply chain modeling and analysis, decision analysis and simulation. His recent research focuses in applications of stochastic models in supply chains and service systems.

**SELECTED PUBLICATIONS**


**EDITORIAL BOARDS**

Associate editor of IEEE Transactions on Automation Science and Engineering, 2005-present
Associate editor of IIE Transactions, 2005-present
Associate editor of Manufacturing & Service Operations Management, 2007-present
Associate editor of Management Science, 2009-present

**GRANTS and CONSULTING**

Several KÜMPEM Research Projects
Co-Principal Investigator for project financed by Bouygues Télécom, Design and Analysis of Call Centers, September 2000 – June 2003, Ecole Centrale Paris

**PATENTS**

2 patents on call center performance analysis

**PROFESSIONAL EXPERIENCE**

**Academic**

Associate Dean of College of Engineering, February 2010-present, Koç University
Professor of Industrial Engineering, Feb. 2010 - present
Department of Industrial Engineering, Koç University
Associate Professor, April 2005 – Feb. 2010, Department of Industrial Engineering, Koç University
Assistant Professor, September 2002 – March 2005, Department of Industrial Engineering, Koç University
Assistant/Associate Professor, September 1999–August 2002, Department of Manufacturing and Logistics, Ecole Centrale Paris
Post-doctoral Researcher, September 1997-August 1999, LIP6 (Laboratoire d’Informatique de Paris 6), Université Pierre et Marie Curie
Research Assistant September 1990 - September 1996, Department of Mechanical, Industrial and Manufacturing Engineering, Northeastern University

**Visiting Academic Positions**

Visiting Associate Professor, September 2008 – August 2009, Department of Industrial Engineering and Management Sciences, Northwestern University
Visiting Researcher, February 1997 - June 1997, Center for Economic Research, Tilburg University

**HONORS and AWARDS**

TÜBA-GEİP Award 2007
TÜBITAK Teşvik ödülü 2009

**MEMBER**

INFORMS

YAD
Ph.D. in Genetics and Cell Biology, Washington State University, 2000; M.Sc. in Genetics and Cell Biology, Washington State University, 1996; B.Sc. in Biology, Middle East Technical University, 1992

Professor Kavaklı teaches general biology, biochemistry, biotechnology, industrial microbiology. His recent research focuses on the areas of biological clock in human, plant biotechnology, drug discovery.

SELECTED PUBLICATIONS


GRANTS and CONSULTING

Structure-function analysis of ADP-glucose pyrophosphorylase, TÜBİTAK-TBAG, June 2009 - June 2010

Investigation of the interaction between large and small subunits of ADP-glucose pyrophosphorylase, İstanbul University June 2009 - June 2011

Structure-function analysis of mammalian cryptochrome, TÜBİTAK-TBAG, June 2009 - June 2010

Development of Biosensor to detect drug from blood, TÜBİTAK-EEEAG, June 2006 - June 2009

Identification of Light Dependent substrate of V.cholerae Cryptochrome, TÜBİTAK-TBAG, June 2006-June 2010

PROFESSIONAL EXPERIENCE

Academic

Assistant Professor, Koç University, Chemical and Biological Eng., September 2004-present

Postdoctoral Research, Associate University of North Carolina-Chapel Hill, Biochemistry and Biophys, Jan 2001-Aug 2004

Teaching Assistant, Washington State University in School of Molecular Biosciences, 1999

Research Assistant, Washington State University in Institute of Biological Chemistry, Jan 1995-Dec 2000

Teaching Assistant, Middle East Technical University in Dept. of Biology, 1994-1995

HONORS and AWARDS

Fevzi Akkaya Distinguished Young Scholar Award (FABED), 2008

Turkish Academy of Sciences (TÜBA) Distinguished Young Scholar Award (GEBİP), 2006

Young Investigator Career Award, TÜBITAK (The Scientific and Technical Research Council of Turkey)

2005 Travel award, School of Molecular Biosciences, Washington State University, 2000

R.A. Nilan travel award from Genetics and Cell Biology, WSU, 2000

Travel grant from graduate school, Washington State University, 2000

Loyal H Davis Fellowship, Washington State University, 1999

MEMBER

American Society of Plant Physiology

American Plant Molecular Biology

American Chemical Society
ONUR KAYA
Assistant Professor of Industrial Engineering

PRODUCTION AND INVENTORY SYSTEMS
SUPPLY CHAIN MANAGEMENT

STOCHASTIC PROCESSES
SCHEDULING

Ph.D. in Industrial Engineering and Operations Research, University of California, 2006; M.A. in Statistics University of California, 2006; M.S. in Industrial Engineering and Operations Research, University of California, 2003; B.S. in Industrial Engineering, Middle East Technical University, 2002

Professor Kaya teaches mathematical programming, stochastic models, logistics and supply chain systems. His recent research focuses on the areas of production and inventory systems, supply chain management, game theory, stochastic processes, queuing models, scheduling and due-date quotation models, facility location and layout models.

SELECTED PUBLICATIONS
Kaminsky, P. and O. Kaya, (2008), Scheduling and Due-Date Quotation in a MTO Supply Chain, Naval Research Logistics, 55(5), pp. 444-458

PROFESSIONAL EXPERIENCE
Academic
Assistant Professor, Koç University, Industrial Engineering Department, Jan. 2007 - present
Graduate Student Researcher, UC Berkeley, Department of IEOR, 2002-2006
Industry Experience
Contract based technical staff at Siemens TTB, Berkeley,

May 2005 - Aug 2005
Part Time Technical Staff in ASELSAN A.Ş. Research & Planning Directorship, Jan 2002 - June 2002

HONORS and AWARDS
Fellowship from University of California, Berkeley graduate program
Scholarship awarded from METU (1998 – 2002)

MEMBER
INFORMS
IIE
Ph.D. in Chemical Engineering, Boğaziçi University, 1999; MS in Chemical Engineering, Boğaziçi University, 1995, BS in Chemical Engineering, Boğaziçi University, 1993

Professor Keskin teaches reaction engineering, introduction to chemical and biological engineering, bioinformatics and biomolecular structure, function and dynamics. Her recent research focuses on the areas of protein-protein interactions, protein-drug interactions, dynamics of biological systems.

SELECTED PUBLICATIONS

GRANTS and CONSULTING
TÜBİTAK 109T343, TÜBİTAK 104T504 (completed)
FP6 project, SEE (South East Europe)-GRID (completed)

PROFESSIONAL EXPERIENCE
Academic
October 2007-present, Associate Professor of Chemical and Biogical Engineering, Koç University
2003–October 2007, Assistant Professor of Chemical and Biogical Engineering, Koç University
2001–2003, Assistant Professor of Chemistry, Koç University
1999–2001, Post-doctoral Fellow at Frederick Cancer Research and Development Center, National Cancer Institute, National Institutes of Health, Laboratory of Experimental and Computational Biology, National Cancer Institute, National Institutes of Health.
1993- 1999, Teaching and Research Assistant in Chemical Engineering Department, Boğaziçi University, Istanbul

Visiting Academic Positions
07/2002 – 08/2005, Visiting Scientist for summers, Laboratory of Experimental and Computational Biology, National Cancer Institute, National Institutes of Health, Jun, 2001, Visiting Scientist, Center for Computational Biology & Bioinformatics, School of Medicine, University of Pittsburgh
Jan- Mar. 1999, Visiting Fellow in National Institutes of Health, NCI, (FCRDC), Frederick
Jul- Nov. 1998: Visiting Fellow in National Institutes of Health, NCI, (FCRDC), Frederick
Jun. 1994- Sept. 1994, Visiting Fellow in the University of South Florida

HONORS and AWARDS
TWAS (The Academy of Sciences for the Developing World) Encouragement Award, 2009
Turkish Academy of Sciences (TÜBA) Distinguished Young Investigator Award, 2006
UNESCO-L’OREAL Co-Sponsored Fellowship for Young
Women in Life Sciences, Fellow of Europe and North America, 2005
Habilitation in Chemical Engineering by YÖK (Turkish National Higher Education System), 2004
Best Presentation Award, ICSMB, 2003, Vienna, Austria
RECOMB Travel Award, 2002, Washington DC, USA
Best Ph.D. Dissertation Award, 1999, Boğaziçi University
International Integrated Graduate Research Fellowship, Scientific and Technical Research Council of Turkey (TÜBİTAK) 1997-1999
Graduate Research Fellowship, Scientific and Technical Research Council of Turkey (TÜBİTAK) 1996-1997

MEMBER
Biophysical Society
ISCB
Ph.D. in Chemical and Biomolecular Engineering, Georgia Institute of Technology, 2009; MS in Chemical Engineering, Boğaziçi University, 2006; BS in Chemical Engineering, Boğaziçi University, 2004

Professor Keskin teaches chemical and biological engineering design, molecular modeling and simulations. Her recent research focuses on the areas of metal organic frameworks for energy applications: hydrogen storage, carbon dioxide capture and storage, nanoporous membranes for gas separations, polymer/metal organic framework mixed matrix membranes, molecular simulation of gas adsorption and diffusion and supercritical fluids.

SELECTED PUBLICATIONS
Professor Kızılel teaches fluid mechanics, heat and mass transfer, transport phenomena, and tissue engineering for chemical and biological engineers. Her research interests include the synthesis and characterization of biomaterials that can be used for tissue regeneration therapies, specifically in the form of encapsulation of islets of langerhans via interfacial photopolymerization in order to provide immunoisolation. The focus of her research is to combine both experimental techniques with computational modeling in order to optimally develop biofunctional polymeric hydrogel membranes that can support viability and insulin secretion capability of islets. Such membranes can also be used as scaffolds to support cell growth and tissue formation for various clinical applications. One of the goals is to formulate computational models of hydrogel formation via interfacial polymerization that can predict the physical properties and the composition of biological signal incorporation within the membrane. These models are being used as a guide to optimize islet functionality and to provide immunoisolation so that the biological effect of ligand incorporation on islet function can be functionally tested in vitro.

SELECTED PUBLICATIONS
Seda Kızılel, Andrew Scavone, Xiang Liu, Jean Manuel Nothias, Diane Ostrega, J Michael Millis "Encapsulation of Pancreatic Islets within Nano-Thin Functional PEG coatings for Enhanced Insulin Secretion" accepted for publication in Tissue Engineering, Nov 10 2009

PATENTS
Can Erkey, Seda Kızılel, Seda Giray. "PEG Hydrogel Encapsulated Hydrophobic Aerogels via Surface Initiated Photopolymerization" Invention disclosure filed on Jan 11 2010

PROFESSIONAL EXPERIENCE
Academic
2008-Present; Assistant Professor of Chemical and Biological Engineering, Koç University
November 2004-November 2007; Postdoctoral Scholar, The University of Chicago Department of Surgery, Chemistry and Physics
September 1998-August 1999; Teaching and Research
Assistant in Chemical Engineering Department, Lehigh University
September 1999-October 2004; Teaching and Research Assistant in Biomedical Engineering Department, Illinois Institute of Technology
February 1996-July 1998; Teaching and Research Assistant, Boğaziçi University

HONORS and AWARDS
Turkish Academy of Sciences (TÜBA) Supported “Loreal Young Women in Science Award”, 2009
Charles Huggins Annual Research Conference, Best Laboratory Research Award, University of Chicago, Department of Surgery, May 13th, 2006
Pritzker Research Fellowship, Pritzker Institute of Biomedical Engineering, IIT (2000-2001, Summer 2002)
Regional Award of The Scientific and Technical Research Council of Turkey in branch of Math, June 1990

MEMBER
American Chemical Society
American Institute of Chemical Engineers
American Diabetes Association
S. SERDAR KOZAT  
Assistant Professor of Electrical and Electronics Engineering

**ADAPTIVE SIGNAL PROCESSING**  
**MACHINE LEARNING ALGORITHMS FOR SIGNAL PROCESSING**  
**SIGNAL PROCESSING ALGORITHMS FOR MATHEMATICAL FINANCE**  
**UNIVERSAL PREDICTION**  
**ONLINE LEARNING**

PhD. in Electrical and Computer Engineering, 2004;  
University of Illinois at Urbana-Champaign, M.S. in Electrical and Computer Engineering, 2001, University of Illinois at Urbana-Champaign; B.S. in Electrical Engineering, 1998, Bilkent University

Professor Kozat teaches adaptive signal processing, advance signal processing, machine learning, statistics  
His recent research focuses on the areas of adaptive signal processing, machine learning algorithms for signal processing, signal processing algorithms for mathematical finance, universal prediction, online learning.

**SELECTED PUBLICATIONS**

Süleyman S. Kozat, Andrew C. Singer, Georg Zeitler,  
"Universal piecewise linear prediction via context trees," IEEE Transactions on Signal Processing, Page(s) 3730-3745, Jul 2007  
Georg Zeitler, Andrew C. Singer, Süleyman S. Kozat,  
"Universal piecewise linear regression of individual sequences: lower bound," Proceedings of ICASSP, Page(s) 841-844, April 2007  
Süleyman S. Kozat, Karthik Visweswariah, Ramesh Gopinath,  
"Efficient, Low Latency Adaptation for Speech Recognition," Proceedings of ICASSP, Page(s) 777-780, April 2007

**PATENTS**


**PROFESSIONAL EXPERIENCE**

**Academic**

Assistant Professor, Koç University, Electrical Engineering Department, 2007-present  
Research Assistant, University of Illinois at Urbana-Champaign, 1999-2004

**Industry Experience**

Full-time Research Staff Member, IBM, T.J. Watson Research Center, 2004-2007  
Software Developer, Microsoft Research, Redmond, 2002-2004  
Research Intern, Microsoft Research, Redmond, May 2003  
Research Intern, Microsoft Research, Redmond, August 2003  
Research Intern, IBM, T.J. Watson Research Center, Yorktown, May 2000

**HONORS and AWARDS**

2010 Turkish Academy of Sciences Award (TÜBA-GEBİP)  
MEMBER

IEEE

College of Engineering ENG 103  
Phone: +90-212-338-1867 • skozat@ku.edu.tr

S. SERDAR KOZAT  
Assistant Professor of Electrical and Electronics Engineering
ALPTEKİN KÜPÇÜ  
Assistant Professor of Computer Science

Ph.D. in Computer Science, Brown University, 2010; M.Sc. in Computer Science, Brown University, 2007; B.S. in Computer Science, Bilkent University, 2004

Professor Küpçü teaches cryptography and security, data structures, algorithms. His recent research focuses on cryptography, security, privacy, cloud systems, game theory and mechanism design, peer-to-peer networks.

SELECTED PUBLICATIONS


Alptekin Küpçü and Anna Lysyanskaya, “Usable Optimistic Fair Exchange”, CT-RSA 2010

Alptekin Küpçü and Anna Lysyanskaya, “Optimistic Fair Exchange with Multiple Arbiters”, PODC 2009 (brief announcement) and ESORICS 2010 (full paper)


PATENTS

Patent pending on Secure and Private Password-Based Authentication, 2010


PROFESSIONAL EXPERIENCE

Academic

2010- Present; Assistant Professor in Computer Engineering, Koç University

2004 – 2010; Research Assistant, Brown University

2006, 2009, 2010; Teaching Assistant, Brown University

Industry Experience

2009; Research Intern, Microsoft Research, USA

2007; Graduate Intern, Cisco Systems, USA

HONORS and AWARDS

Brown University Fellowship, Teaching Assistantship, Research Assistantship, 2004-2010

Bilkent University Fellowship and Dean’s List, 2000-2004

Bilkent University Computer Science class 3rd rank, 2004

Ranked 2nd at Turkish National GRE (“LES”, with over 100,000 contestants), 2004

Awarded “Special 76th Anniversary” prize by “Türkiye İş Bankası” for being 56th at Turkish National SAT (“ÖSS”, with over 1.5 million contestants), 2000

MEMBER

ACM (2008- present)

IEEE (2008- present)

IACR (2007- present)
Ph.D. in Mechanical Engineering, Georgia Institute of Technology, 1997; MS in Mechanical Engineering, Georgia Institute of Technology, 1992; BS in Mechanical Engineering, Istanbul Technical University, 1989

Professor Lazoğlu teaches dynamics, introduction to mechanical engineering design (CAD), mechatronics, computer integrated manufacturing and automation. His recent research focuses on manufacturing; system modeling; design; optimization control; automation and mechatronics; computer aided numerical control (CNC) systems; computer aided design and manufacturing (CAD/CAM); system dynamics and control; Biomedical Engineering, BioMechanics and BioManufacturing.

SELECTED PUBLICATIONS

GRANTS and CONSULTING
“Development of an Industrial 3D High Precision Laser Machining System” Funded by Ministry of Industry and Trade, and LazerMikron Ltd. Project No: 00470.STZ. 2009-2012
“5-Axes High Precision CNC Machining Process Modeling and Optimization”. Supported by Mori Seiki Machine Tool Company, Esprit CAD/CAM Software DP Technology Corp. and Machine Tool Technology Research Foundation (MTTRF), 2009-2011
“Modeling Machining of Advanced Aerospace Alloys”. Funded by General Electric, 2009
“Automation of Computer Aided Automotive Door Design Process”, Funded by Tofaş-Fiat A.S., 2008-2010
“Design, Analysis and Prototype Production of the First Implantable Miniature Heart Pump as the Left Ventricular Assist Device in Turkey”. In collaboration with Yeditepe University Hospital. TÜBİTAK Project No: 106M309. 2007-2010


“Development of a High Precision Parallel Kinematics Robot for Micro Machining” In collaboration with Yeditepe University Funded by TÜBİTAK Project No: 105M213, 2006 -2009

“Rapid Prototyping, Modeling and Optimization of Computer Controlled High Speed Production Processes”, Funded by the Young Scientists Career Development Program of the Scientific and Technical Research Council of Turkey (TÜBİTAK Project No: 104M287)

“Residual Stress Analysis in Jet Engine Manufacturing” –In collaboration with Pratt & Whitney-Canada. 2006-2010

“Feedrate Scheduling For 3D Complex Free-Form Surface Machining”, In collaboration with ModuleWorks GmbH from Germany, 2005-2011


PROFESSIONAL EXPERIENCE

Academic

December 2007-Present, Associate Professor of Mechanical Engineering, Koç University

September 2000-December 2007, Assistant Professor, Koç University

March 1999-July 2000, Post-Doctoral Fellow, University of British Columbia

January 1997-March 1999, Post-Doctoral Research Associate, University of Illinois at Urbana-Champaign

September 1992-January 1997, Graduate Research & Teaching Assistant, Georgia Institute of Technology

HONORS and AWARDS

Associate Member of the International Academy for Production Engineering (College International pour la Recherche en Productique - CIRP)

Machine Tool Technologies Research Foundation (MTTRF) Award of Year 2009

The research titled as “Development of the First Turkish Miniature and Implantable Centrifugal Heart Pump Support System: Heart Turcica-2” received “The Second Best Oral Presentation Award” from the Turkish Society of Cardiovascular Surgery in 2006

The co-author of the paper in the Japan Society of Mechanical Engineers - International Conference on Leading Edge Manufacturing 2005. “The Outstanding Young Researcher Award” given to his graduate student Huseyin Erdim

The Werner von Siemens Excellence Award in 2004

The Career Program Award of the Scientific and Technical Research Council of Turkey (TÜBİTAK) in 2004

Research Scholarship for Foreign Scientists from the “Deutscher Akademischer Austauschdienst” (DAAD) in 2002

Selected as ‘the Outstanding Reviewer’ by the American Society of Mechanical Engineers, 2001

Received the scholarship from the Ministry of Education to continue Masters and Ph.D. studies in overseas countries by ranking 1st in the nationwide exam given to the mechanical engineers in 1989

Finished as 2nd of Class’89 in the Faculty of Mechanical Engineering at Istanbul Technical University

MEMBER

Co-Founder and Administrative Board Member of the Society for Artificial Organs and Support Systems (TUYOD)
Ph.D. in Aerospace Engineering, Cornell University, 2000; MS in Aerospace Engineering, Cornell University, 1997; BS in Aeronautical Engineering, Istanbul Technical University, 1992

Professor Muradoğlu teaches fluid mechanics, thermodynamics, computational fluid dynamics (CFD), advanced fluid mechanics, Calculus and applied mathematics. His recent research focuses on the areas of multiphase flows in bio/microfluid systems: numerical simulations of multiphase flows with applications in bio/microfluid flows, fluid-biomembrane interactions in incompressible flow fields and bubbly flows in microchannels, turbulence modeling: probability density function (PDF) modeling of turbulent flows, Large Eddy Simulations (LES), turbulent combustion and turbulence-combustion interactions, computational fluid dynamics (CFD): modeling and computation of compressible and incompressible flows about complex geometries including transonic flows with shock waves, time-accurate (unsteady) computations of compressible and incompressible flows using a pseudo-time stepping method, scientific computing: finite volume (FV) method, Lagrangian particle method, Monte Carlo method, hybrid FV/particle method, in-situ adaptive tabulation (ISAT) method for efficient computation of combustion with detailed chemistry, FV/front tracking method for computations of multiphase flows, convergence acceleration techniques for time-marching algorithm such as preconditioning method, local time stepping method and multigrid method.

**SELECTED PUBLICATIONS**


**EDITORIAL BOARDS**


**PROFESSIONAL EXPERIENCE**

**Academic**

December 2007-present, Associate Professor of Mechanical Engineering, Koç University

September 2001-December 2007, Assistant Professor, Koç University

February 2000-August 2001, Postdoctoral Research Associate, Cornell University

August 1998-January 2000, Graduate Research Assistant, Cornell University

August 1997-May 1998, Graduate Teaching Assistant, Cornell University

July 1993-August 1994, Graduate Research Assistant, Istanbul Technical University

**Visiting Academic Positions**


**Industry Experience**

May-August 1998, DOE/AGTSR Industrial Internship
Program, Rolls-Royce Allison Engine Company, Indianapolis

**HONORS and AWARDS**

TÜBİTAK Incentive Award (2010)
Distinguished Young Scientist Award, Turkish Academy of Sciences (TÜBA) (2009)
Distinguished Young Scientist Award, Fevzi Akkaya Research Fund for Scientific Activities (FABED) (2009)
Distinguished Young Scientist Award, Mustafa Parlar Foundation, Middle East Technical University, (2009).
Associate Professor by Inter University Council, (2006)
Harvard University-Koç University exchange scholar fellowship (2004)
Jayesh Prize for Outstanding Fall Semester Student Talk: The Stability, Transition and Turbulence Seminar (STTS), Cornell University (1998)
Clemson Internship Award, DOE/AGTSR (1998)

**MEMBER**

Board member of Turkish Chapter of American Institute of Mechanical Engineering (ASME)
Member of American Physical Society (APS)
Member of the Society for Applied and Industrial Mathematics (SIAM)
Ph.D. in Industrial Engineering, Bilkent University, 1993; M.S. in Industrial Engineering, Bilkent University, 1988; B.S. in Industrial Engineering, Middle East Technical University, 1986

Professor Oğuz teaches logistics, operations and facilities design, project management, scheduling, heuristic methods. Her recent research focuses on the areas of computational biology and bioinformatics, logistics, and scheduling via analysis of computational complexity, design of algorithms and metaheuristics, and mathematical programming.

SELECTED PUBLICATIONS


GRANTS and CONSULTING
15 international and national grants secured during 1993-2009 period

PROFESSIONAL EXPERIENCE
Academic
September’04-Present: Associate Professor of Industrial Engineering, Koç University
September’03-August’04: Associate Professor of Logistics, The Hong Kong Polytechnic University
February’00-August’03: Associate Professor, Department of Management, The Hong Kong Polytechnic University
September’94-January’00: Assistant Professor, Department of Management, The Hong Kong Polytechnic University

Visiting Academic Positions
June’08, September’05, June’04, July’03: Visiting Researcher, Institute of Computing Science, Poznan University of Technology
May’04: Visiting Researcher, Institute of Engineering Cybernetics, Wroclaw University of Technology
June’03: Visiting Researcher, LAMIH (Production Systems), University of Valenciennes
August’02: Visiting Researcher, School of Mathematical Sciences, Queensland University of Technology
June’02: Visiting Researcher, Department of Mathematics/Computer Science, University of Osnabruck
August’00: Visiting Researcher, Department of Industrial Engineering, Middle East Technical University
July’94-August’94: Visiting Scholar, Department of Industrial Engineering, Bilkent University
May’93-June’94: Visiting Scholar, Department of Management, Hong Kong Polytechnic

HONORS and AWARDS
Visiting Scholarship, Hong Kong Polytechnic, 1993-1994;
Selected by the National OR Society of Turkey for EURO Summer Institute VI, 1989; Research Assistantship, Bilkent University, 1986-1993

**MEMBER**

EWG CBBM : EURO Working Group on the Operational Research in Computational Biology, Bioinformatics and Medicine
EU/ME: The European Chapter on Metaheuristics
Institute for Operations Research and the Management Sciences (INFORMS)
The Operations Research Society of Turkey
The Operational Research Society of Hong Kong
The Institute of Industrial Engineers (IIE)
Ph.D. in Operations Research, Case Western Reserve University, 1998; M.S. in Industrial Engineering, Middle East Technical University, 1993; B.S. in Industrial Engineering, Middle East Technical University, 1990

Professor Örmeci teaches stochastic models and their applications, service operations analysis, applied statistics, probability and statistical methods. Her recent research focuses on the areas of application of Markov decision processes on real systems such as call centers, supply chains and marketing applications; analysis of telecommunication systems using queuing theory; statistical analysis and estimation of random processes.

SELECTED PUBLICATIONS

EDITORIAL BOARDS
Referred for journals

GRANTS and CONSULTING

PROFESSIONAL EXPERIENCE
Academic
June 2009 - present, Associate Professor of Industrial Engineering Koç University
Jan 2001 – June 2009, Assistant Professor of Industrial Engineering, Koç University
1999-2001, Research Fellow, Technical University of Eindhoven
Fall 2000, Instructor, Erasmus University
1993-1998, Teaching Assistant, Case Western Reserve University
Summer 1996, Research Assistant, Case Western Reserve University
1990-1993, Teaching Assistant, Middle East Technical University

Visiting Academic Positions
Feb 2010 – Feb 2011, Sabbatical, University of Pennsylvania
Industry Experience
Summer 1997, System Analyst, Cleveland Clinic Foundation
Summer 1995, System Analyst, Case Western Reserve University

HONORS and AWARDS
Doçent title from YÖK, 2005

MEMBER
The Institute for Operations Research and Management Science
Society for Industrial and Applied Mathematics
Turkish Operational Research Society
INFORMS Doctoral Colloquium (New Orleans, November 1995)
Professor Özekici teaches stochastic models, modeling and simulation, financial engineering, advanced stochastic processes, stochastic models in financial engineering. His recent research focuses on the areas of portfolio management in stochastic markets, complex OR/MS/IE models in random environments, reliability and component testing of mission-based systems, replacement policies for parallel production units, intrinsic aging in reliability and maintenance models, inventory management in random environments.

**SELECTED PUBLICATIONS**

**EDITORIAL BOARDS**
Editor-in-chief of Transactions on Operational Research (2004 - Present)
Associate editor of Applied Stochastic Models in Business and Industry (2009 - Present)

**GRANTS and CONSULTING**
Görev Tabanlı Bileşen Sınamı (Mission-Based Component Testing) (2006 - 2009) Turkish Scientific and Technological Research Council (TÜBİTAK) Grant 106M044 (Principal Investigator)
Financial Markets in Random Economic Environments (2001 - 2002) Boğaziçi University Research Fund Grant 01HA302 (Principal Investigator)
Software Failure Modelling and Testing (1997 - 2000) Boğaziçi University Research Fund Grant 97HA303 (Principal Investigator)
Optimal Inspection of Deteriorating Systems Subject to Catastrophic Failure (1985 - 1987). NATO Collaborative Research Grant RG85/0768 (Coprincipal Investigator with Professor Stanley R. Pliska of the University of Illinois at Chicago)

**PROFESSIONAL EXPERIENCE**
Academic
Director of Graduate School of Sciences and Engineering, (September 2006 - 2009), Koç University
Professor of Industrial Engineering (2002 - Present), Koç University, Department of Industrial Engineering
Professor of Industrial Engineering (1990 - 2002), Boğaziçi University, Department of Industrial Engineering
Associate Professor (1985 - 1989), Boğaziçi University, Department of Industrial Engineering
Assistant Professor (1979 - 1980, 1981 - 1984), Boğaziçi University, Department of Industrial Engineering

Visiting Academic Positions
Visiting Professor (1999 - 2001), The George Washington University, Department of Engineering Management and Systems Engineering, and the Department of Management Science
Senior Fellow (1991 - 1993), National University of Singapore, Faculty of Business Administration, Department of Decision Sciences
Visiting Assistant Professor (1984 - 1985), Northwestern University, Kellogg Graduate School of Management, Department of Managerial Economics and Decision Sciences

HONORS and AWARDS
Boğaziçi University Foundation Achievement Award in Scientific Research (1999)
Boğaziçi University Foundation Award (1998)
Turkish Scientific and Technological Research Council (TÜBİTAK) Award (1990)
The Franz Edelman Management Science Achievement Finalist Award (1988)

MEMBER
Omega Rho International Honor Society; International Statistical Institute (ISI)
Institute for Operations Research and Management Sciences (INFORMS)
Bernoulli Society for Mathematical Statistics and Probability (BS)
International Society for Bayesian Analysis (ISBA)
Operations Research Society of Turkey
Turkish Statistics Society
**ÖZNUR ÖZKASAP**
Associate Professor of Computer Engineering

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Ph.D. in Computer Engineering, Ege University, 2000; M.S. in Computer Engineering, Ege University, 1994; B.S. in Computer Engineering, Ege University, 1992

Professor Özkasap teaches distributed computing systems, computer networks, operating systems, advanced programming, computer and network security. Her recent research focuses on the areas of distributed computing systems, peer-to-peer services, reliable multicast protocols, biologically-inspired distributed algorithms, mobile ad hoc and computer networks.

**SELECTED PUBLICATIONS**


**EDITORIAL BOARDS**

International Program Committee Member
IEEE Local Computer Networks (LCN), 2003, Germany
ACM Networked Group Communication (NGC), 2003, Germany
IASTED International Conference on Parallel and Distributed Computing and Systems, 2003-2007, USA
Bionetics: Bioinspired Models of Networked, Information and Computer Systems, 2006, Italy
Dynamics on and of Complex Networks, Workshop of European Conf. on Complex Systems, 2007, Dresden
International Symposium on Computer and Information Sciences (ISCIS), 2007, Ankara
International Conference on Emerging Network Intelligence (EMERGING), 2009, 2010
eChallenges e-2009 Conference, 2009, İstanbul
International Symposium on Computer and Information Sciences (ISCIS), 2010, London
Referee

GRANTS and CONSULTING
EU/FP7 STREP Project, DIOMEDES: DIstribution Of Multi-view Entertainment using content aware DElivery Systems, project partner (with Prof. M. Tekalp), 2010-ongoing
TÜBİTAK-EU COST IC0804 Action, Research Project, Energy Efficiency in Peer-to-Peer Network Services, pending proposal, principal investigator
Research Council of Norway, ICT programme, SCAM (Safer Children Internet Access: Multimodal Digital Media Analysis), pending proposal, project partner
İstanbul Metropolitan Municipality, Projem İstanbul, M-İstanbul: Mobile Istanbul Networked Information Services Development and Optimization, 2008-2009, principal investigator
Ege University Research Project, Scalable Reliable Multicast Protocols, 2000, principal investigator

PROFESSIONAL EXPERIENCE

Academic
Koç University, Department of Computer Engineering, Associate Professor, 06/2009 - present
Koç University, Department of Computer Engineering, Assistant Professor, 09/2000 - 06/2009
Cornell University, Department of Computer Science, Graduate Research Assistant, 08/1997-08/1999
Ege University, Computer Engineering Department, Teaching & Research Assistant, 12/1992-09/2000

Visiting Academic Positions
Cornell University, Department of Computer Science, Visiting PhD student, 08/1997-08/1999

Industry Experience
Vestel Data Processing Center, Project Member, 02-07/1992
Turkish Airlines (TAL) Data Processing Center, Software Applications Intern, 08-09/1991

HONORS and AWARDS
Promoted to the rank of Associate Professor, Koç University, June 2009
Google conference grant and travel award (one of three winners worldwide) for SIGCOMM 2009
ACM Recommender Systems Conference 2008, Strands Call for Recommender Start-Ups Project Competition, Member of Board of Advisers of the 3rd place winner team: Iletken, Koç University
Microsoft Imagine Cup Turkey 2007, Software Design Competition, Project adviser of the 3rd place winner team: I.GET(!), Koç University
Associate Professorship in Computer Science and Engineering, Turkish Inter-university Council, Oct 2006
TÜBİTAK -CAREER Award, 2004
Listed in Marquis Who’s Who in the World, 2005-2009 Editions
Graduate Research Assistantship: Dept. of Computer Science, Cornell University, 1997-1999
ranked 3rd of the department in graduation, Computer Engineering, Ege University, 1992

MEMBER
IEEE Society
ACM Society
Turkish Informatics Society
IEEE Turkey Section
EuroSys: The European Professional Society on Computer Systems
N2 Women: Networking Networking Women
Professor Salman teaches mathematical programming, linear programming, integer programming, optimization methods and applications, network models, approximation algorithms, heuristics, scheduling, production planning and control, information systems, operations management, management science. Her recent research focuses on the areas of methodologies: discrete optimization, approximation algorithms, stochastic programming application areas: Network design in telecommunication and logistics, facility location problems, production scheduling problems, resource allocation for risk reduction, disaster logistics

**SELECTED PUBLICATIONS**


**GRANTS and CONSULTING**


TÜBİTAK CAREER AWARD (105M316), 2006 - 2011: Stochastic Network Optimization Methods with Applications in Disaster Management, Investigator: F. S. Salman


**PROFESSIONAL EXPERIENCE**

**Academic**

9/03-present, Assistant Professor of Industrial Engineering, Koç University

8/00-8/03, Assistant Professor of Industrial Engineering,
Krannert School of Management, Purdue University
9/92-7/95, Research Assistant, Department of Industrial
Engineering, Bilkent University

**Industry Experience**
6/98, 7/97-9/97, Summer Intern – IBM, T.J. Watson Research
Center

**HONORS and AWARDS**
2002 First Prize, Third Annual INFORMS Case Competition
8/97-7/99 IBM Corporate Fellowship for doctoral study
8/96-7/97 Doctoral Fellowship, William Larimer Mellon
Foundation, GSIA, CMU
8/95-8/96 Fulbright Scholarship for doctoral study
9/92-7/95 Fellowship for graduate study, Bilkent University
9/88-6/92 Fellowship for undergraduate study, Bilkent
University

**MEMBER**
Institute for Operations Research and the Management
Sciences (INFORMS)
Institute of Industrial Engineers (IIE)
IEEE
YAD
Yöneylem Araştırması Derneği
Professor Sayar teaches computational science and engineering, statistics, intermolecular and surface forces, finite element method. His recent research focuses on the areas of soft condensed matter, polymer physics, computational materials science, physics of biopolymers, physics of polyelectrolytes.

SELECTED PUBLICATIONS
Sayar M. & Stupp S.I. Self-organization of rod-coil molecules into nanoaggregates: A coarse grained model Macromolecules 34, 7135-7139 (2001)

GRANTS and CONSULTING
03/2010-03/2012 Partner Program with Max-Planck Institute for Polymer Research, Mainz, Germany
11/2009-10/2012 TÜBİTAK 1001 Project: A coarse-grained model of DNA and the investigation of the equilibrium plasmid structures as a function of temperature

MEHMET SAYAR
Assistant Professor of Mechanical Engineering

SOFT CONDENSED MATTER
POLYMER PHYSICS
COMPUTATIONAL MATERIALS SCIENCE

PHYSICS OF BIOPOLYMERS
PHYSICS OF POLYELECTROLYTES

Ph.D. in the Department of Materials Science and Engineering at Northwestern University, 2003; M.Sc. in the Department of Materials Science and Engineering at University of Illinois Urbana/Champaign, 1999; B.Sc. in the Department of Civil Engineering at Boğaziçi University, 1996

HONORS and AWARDS
01/2004-08/2005 Marie Curie Intra European Fellowship for Postdoctoral Research
09/2001-03/2003 Nanoscale Science and Engineering Center Graduate Fellow at Northwestern University
09/1997-03/1999 Fulbright Scholarship for M. Sc. studies in USA
09/1992-06/1996 Honor student, Boğaziçi University, Faculty of Engineering
09/1991-06/1996 Hacı Ömer Sabancı Foundation Award
09/1992-02/1996 Boğaziçi University Alumni Association Award
ALPHAN SENNAROĞLU
Professor of Physics and Electrical-Electronics Engineering
Dean of College of Sciences
Director of KUPRC

LASERS
SOLID-STATE LASERS
FEMTOSECOND LASERS

Ph.D. in Electrical Engineering, Cornell University, 1994; MS in Electrical Engineering, Cornell University, 1990; BS in Electrical Engineering, Cornell University, 1988

Professor Sennaroğlu teaches photonics and lasers, photonic materials and devices, electromagnetism, classical electrodynamics, fascinating nature of light, classical mechanics, quantum physics, experimental physics, quantum mechanics, and introduction to engineering. His recent research focuses on the development of infrared solid-state lasers, femtosecond lasers, spectroscopy of quantum dots, doped polymers, and glasses.

SELECTED PUBLICATIONS

GLASS LASERS
ULTRAFAST AND NONLINEAR OPTICS
SPECTROSCOPY


BOOKS

EDITORIAL BOARDS
Technical Committee Member, Advanced Solid-State Photonics, Denver CO, February 2009
Technical Committee Member, Advanced Solid-State Photonics, Nara Japan, February 2008
Technical Committee Member, Ultrafast Optics, CLEO 2007
Technical Committee Member, Ultrafast Optics, CLEO 2006
Technical Committee Member, Ultrafast Optics, CLEO 2005
Technical Committee Member, Ultrafast Optics, CLEO-Europe 2005
Technical Committee Member, Europhoton Conference on Solid-State and Fiber Lasers (2004)
Member of the Organizing Committee, Turkish Workshop on Photonics (1999-2009)
ALPHAN SENNAROĞLU

GRANTS and CONSULTING
‘Development of a high-energy, pulsed Cr2+:ZnSe laser amplifier at 2400 nm,’ (TÜBİTAK, Project TBAG 108T028, 2008-2011)
‘Development of a room-temperature Fe:ZnSe laser,’ (TÜBİTAK, 2006)
‘Development of tunable Cr:ZnSe lasers’ (Vrije University Brussels, 2004-2006)
m solid-stateμ(3) “Development of a 2.5- laser source” (TÜBİTAK-NSF, with Cornell University 1999-2000)
“Spectroscopic Characterization of New Solid-State Visible Laser Sources Based on Upconversion Processes” (Fiat Foundation, 1998-1999)

PROFESSIONAL EXPERIENCE
Academic
Dean of College of Sciences, 2010-present
Director of KUPRC, 2010-present
Professor of Physics and Electrical-Electronics Engineering, Koç University, November 2004-present
Associate Professor of Physics and Electrical-Electronics Engineering, Koç University, 1999-2004
Assistant Professor, Koç University, 1994-1999

Visiting Academic Positions
Research Laboratory of Electronics, Massachusetts Institute of Technology, (2002-2003 and 2009-2010 academic years, and summers of 2005-2008)
Cornell University, (August 1999, August 2000)
Ben Gurion University, (September 1998)

HONORS and AWARDS
Associate Member, Turkish Academy of Sciences (2005-present)
2002 ICTP/ICO (International Commission for Optics) Award
İTÜ (İstanbul Technical University) Foundation 2001 Technology Award
Werner-von-Siemens Excellence Award (Koç University, 2001)
2001 TÜBA (Turkish Academy of Sciences) Distinguished Young Scientist Award
1998 TÜBİTAK Young Scientist Award
Cornell Materials Science Center graduate research assistantship (1989-1994)
Sage Fellow (1988-1989 academic year)
Sibley Award of Electrical Engineering: (1988)
AMIDEAST Scholar (full undergraduate scholarship, 1984-1988)

MEMBER
Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
Member, Optical Society of America (OSA), International Society for Optical Engineering (SPIE).
Founding Chair of IEEE LEOS (Lasers and Electro-Optics Society) Turkish Chapter (1999-2003)
Vice chair, Optics Committee of Turkey (2001-2003)
Member, Eta Kappa Nu, Tau Beta Pi
PhD in Electrical Engineering and Computer Science, Massachusetts Institute of Technology, 2006; MS in Electrical Engineering and Computer Science, Massachusetts Institute of Technology, 2001; BS summa sum laude with Honors in Computer Science, Syracuse University, 1999

Professor Sezgin’s teaching interests are intelligent user interfaces, multimodal interfaces, machine learning, graphical models. His research interests are multimodal human-computer interfaces, affective computing and affective interfaces, pen-based computing, computer graphics and animation, intelligent driver monitoring systems, statistical techniques in medicine, machine learning and computer vision applications. His research aims enabling people to interact with computers in a more natural fashion by combining techniques from computer vision, machine learning, computer graphics, human-computer interaction and psychology. His past research has concentrated on recognition technologies for intelligent pen-based human-computer interfaces, and automated emotion recognition for active driver monitoring in automobiles.

SELECTED PUBLICATIONS

EDITORIAL BOARDS
Program Committee
Reviewer
Program Chair: MIT Student Oxygen Workshop (SOW)

GRANTS and CONSULTING
TOYOTA Motor Corporation ITC; Havelsan A.Ş.
DARPA/BAE/SIFT Deep Green.
DARPA/SAIC Deep Green. (PI T. Hammond)

PROFESSIONAL EXPERIENCE
Academic
01 2009 – present, Assistant Professor of Computer Engineering, Koç University
08/2006-01/2009, Research Associate, University of
T. METİN SEZGİN

Cambridge, Computer Laboratory
01/2000-06/2006, Research Assistant, Massachusetts Institute of Technology
01/1998-05/1998, Teaching Assistant, Syracuse University, Syracuse

HONORS and AWARDS
Warren Semon Prize for Outstanding Achievement in Computer Science, Syracuse University (1999)
Earl H. Devoe Prize for Outstanding Undergraduate Research, Syracuse University (1999)
Syracuse University 1998-1999 Remembrance Scholar
Second place in the Martin and Phyllis Berman Competition for innovative Computer Programs in 1998
Third Place in the Martin and Phyllis Berman Competition for innovative Computer Programs in 1997

MEMBER
Association for the Advancement of Artificial Intelligence (AAAI)
Association for Computing Machinery (ACM)
NY β chapter of Tau Beta Pi Honor Society
Phi Kappa Phi Honor Society
E. MURAT SÖZER
Associate Professor of Mechanical Engineering

Ph.D. in Mechanical Engineering, University of Delaware, 1995; M.S. in Mechanical Engineering, Middle East Technical University, 1989; B.S. in Mechanical Engineering, Middle East Technical University, 1989

Professor Sözer teaches mechanics and mechanical properties of materials, manufacturing processes and systems, numerical methods, and manufacturing of advanced engineering materials. His recent research focuses on the areas of manufacturing of composite materials, resin transfer folding (RTM) process, vacuum infusion (VI), free-surface flows and vortex sheet method.

SELECTED PUBLICATIONS

GRANTS and CONSULTING

PATENTS

PROFESSIONAL EXPERIENCE
Academic
Associate Professor, Koç University, Mechanical Engineering Dept., (June 2009 – present)
Assistant Professor, Koç University, Mechanical Engineering Dept., (September 2000 – June 2009)

Visiting Academic Positions
Mechanical Engineering Dept., University of Delaware (July 1995 - December 1995)

Industry Experience
Design Engineer, Aselsan Military Electronics Inc., July
1986-August 1989)

HONORS and AWARDS

Top (The Outstanding) Technical Paper Award: Given by the Composites Manufacturing Association (CMA) of the Society of Manufacturing Engineers (SME) in recognition of outstanding contribution to the composites manufacturing body of knowledge for the technical paper. Composites Manufacturing and Tooling 2000 Conference and Tabletop Exhibits, pages 167-190, Newport Beach, California, February 23-25, 2000

Excellence in Teaching Award: Given by the Committee on Student and Faculty Honors, University of Delaware (one of only two teaching assistant recipients), (May 1994);

Competitive and Tuition Fellowship by Graduate Office, University of Delaware (September 1992 - May 1993)
SERDAR TAŞIRAN
Assistant Professor of Computer Engineering

SOFTWARE ENGINEERING: SOFTWARE RELIABILITY, PROGRAM ANALYSIS, SOFTWARE VERIFICATION
CONCURRENT SYSTEMS: MULTI-THREADED SOFTWARE,
MULTI-PROCESSOR HARDWARE
DESIGN AUTOMATION TOOLS FOR HARDWARE AND SOFTWARE SYSTEMS

Ph.D. in Electrical Engineering and Computer Sciences, University of California, 1998; M.S. in Electrical Engineering and Computer Sciences, University of California, 1995; B.S. in Electrical Engineering, Bilkent University, 1991

Professor Taşıran teaches software engineering, algorithms and computational complexity, design methodologies and tools for software/hardware systems, object-oriented programming with Java. His recent research focuses on the areas of software engineering: software reliability, program analysis, foundations of software engineering; software verification: validation and bug detection tools and techniques; concurrent systems: multi-threaded software, multi-processor hardware; design automation tools for hardware and software systems: synthesis, verification, performance analysis and optimization; information visualization.

SELECTED PUBLICATIONS
Selected for publication in the Communications of the ACM Research Highlights


EDITORIAL BOARDS
Guest Editor, Special Issue of the Journal of Logic and Computation (Oxford Journals) on Runtime Verification

GRANTS and CONSULTING
Microsoft Research Europe PhD Scholarship 2010
Young Investigator Award (KARIYER Award No. 104E058) by the Scientific and Technical Research Council of Turkey (TÜBİTAK)
During 2003-2009, research support from Microsoft Research, Redmond in the form of yearly unrestricted gifts, two salaried PhD student internships with support for travel and accommodations and financial support for several Visiting Researcher appointments

PROFESSIONAL EXPERIENCE
Academic
January 2003 – present, Assistant Professor of Computer Engineering, Koç University
June 2001, Instructor, Sabancı University
August 1992-December 1998, Graduate Student Researcher, University of California
Spring 1997, Course Consultant, University of California and National Technological University
August 1991-May 1992, Research Assistant, University of Illinois, Urbana-Champaign

Visiting Academic Positions
Massachusetts Institute of Technology, Research Laboratory of Electronics (August 2005)
SERDAR TAŞIRAN

Swiss Federal Institute of Technology (EPFL) Lausanne
(July-August 2003)

Industry Experience
October 2000 – May 2002, Research Scientist, Systems Research Center, Compaq, Palo Alto
December 1998 – October 2000, Post-Doctoral Researcher, Gigascale Silicon Research Center, Berkeley
June – August 1995, June 1996, Member of Technical Staff, Bell Laboratories, Lucent Technologies, Murray Hill

HONORS and AWARDS
2004-2007: Research gifts from the Software Productivity Tools and Software Reliability Research Groups, Microsoft Research, Redmond
Outstanding Young Researcher Award (TÜBA-GEKİP) by the Turkish Academy of Sciences
1993-1998: Funding for graduate study from the Semiconductor Research Corporation
1992: Eugene C. Gee and Mona Fay Gee Scholarship for graduate study at UC Berkeley
1991: One of the four NATO Honorary Doctoral Scholars in Electrical Engineering selected by the Scientific and Technical Research Council of Turkey
1991: Ranked first in the graduating class of the Department of Electrical and Electronics Engineering at Bilkent University
1987-1991: Undergraduate merit scholarships from Bilkent University, the Turkish Council for Scientific and Technical Research, and the Sabanci Foundation

MEMBER
IEEE
ACM
Professor Tekalp teaches signals and systems, digital signal processing, image and video processing. His recent research focuses on the areas of video coding and streaming, multi-view and 3D video processing, 3DTV, video restoration and super-resolution, video and motion analysis, sports video analysis, multi-modal signal processing for human-computer interaction.

SELECTED PUBLICATIONS


EDITORIAL BOARDS


GRANTS and CONSULTING

DIOMEDES, FP7 STREP; SARACEN, FP7 STREP; COST2102; SIMILAR FP6 Network of Excellence; 3DTV FP6 Network of Excellence (Europe)
8 National Science Foundation Grants, and grants from Eastman Kodak, Xerox and Siemens Corporation (USA), TÜBİTAK grant (Turkey)
Consultant to Eastman Kodak Company, Xerox Corporation, Siemens Research, Sharp Labs. America (USA); Oxygen Technologies, ARGELA (Turkey)

PATENTS

“Mesh node motion coding to enable object based functionalities within a motion compensated transform video coder,” (with Peter van Beek and Atul Puri) US Patent No. 6,148,026, issued November 14, 2000
“2-D mesh geometry and motion vector compression,” (with Peter van Beek) US Pat No 6,047,088, issued April 4, 2000
“Object-based video processing using forward-tracking 2-D mesh layers,” (with Peter van Beek) US Patent No. 5,936,671, August 10, 1999

PROFESSIONAL EXPERIENCE

Academic
February ‘10-present, Dean of College of Engineering, Koç University
June ‘01-present, Professor Electrical and Electronics Engineering, Koç University
November ‘95-, Professor Electrical and Electronics Engineering, University of Rochester
May ‘90 - November 95, Associate Professor Electrical and Electronics Engineering, University of Rochester
July ‘87 - May ‘90, Assistant Professor electrical and Electronics Engineering University of Rochester
January ‘81-Dec. ‘84, Research/Teaching Assistant, Rensselaer Polytechnic Institute
February ‘78 - June ‘80, Boğaziçi University, Teaching Assistant

Industry Experience
June ‘87 - August ‘87, Senior Research Scientist, Eastman Kodak Company
December ‘84 - June ‘87, Research Scientist, Eastman Kodak Company

HONORS and AWARDS
TÜBA, Full Member, 2007
TÜBİTAK Bilim Ödülü, 2004
IEEE Fellow, 2003
Fulbright Senior Scholar Award, 1999-2000 Academic year
Listed in Marquis Who's Who in America Science and Engineering, 4th and 5th Editions

National Science Foundation Research Initiation Award (‘88)
Fellowship from Scientific and Technical Research Council of Turkey (‘78)

MEMBER
TÜBA
IEEE (S ‘80, M ‘85, Sr. ‘91, Fellow ‘03)
Member, Sigma Xi (M ‘83)
Member, ERC Advanced Grant Panel (2009-2013)
National Expert, Turkish ICT Delegation to European Commission, (2009- present)
TÜBİTAK EEEAG Executive Committee, (2004-present)

Professor Türkay teaches optimization models and algorithms, linear programming theory and algorithms, logistics and supply chain management, process and product design. His recent research focuses on the areas of multi-objective mixed-integer programming models and solution algorithms, planning and scheduling in logistics and supply chain management, inter-modal logistics, sustainable supply chain and logistics systems, systems biology, structure-based drug design.

SELECTED PUBLICATIONS

EDITORIAL BOARDS

GRANTS and CONSULTING
Development of Technologies for Reuse and Disposal of Batteries, TÜBİTAK-TARAL Research Project, 01.08.2009-31.07.2011
Automotive Logistics in Marmara Region, OSD (Otomotiv Sanayii Derneği), 01.08.2007-31.07.2008
Modeling and Optimization of Sustainable Supply Chain and Logistics Systems, IBM, 01.08.2007-31.07.2012
Integration of Facility Location and Layout of Intermodal Transportation System with Scheduling, TÜBİTAK Research Project (106E208), 01.01.2007-31.03.2008
Development of Mixed-Integer Multi-Objective Optimization Methods and Application to Supply Chain Management Strategy in Energy Systems, TÜBİTAK CAREER
METİN TÜRKAY

Project (104M322), 01.04.2005-01.04.2010
Optimization of Piecewise Linear Cost Functions using Generalized Disjunctive Programming, Koç University KÜMPEM Project, 07.11.2006-06.11.2007
Vendor Selection under Product Assortment and Inventory Considerations, Koç University KÜMPEM Project Dates: 01.01.2005-31.12.2006
Inter-company energy optimization project, Mitsubishi Chemical Corporation, Japan, 01.03.2002-28.02.2004
Logistics systems modeling and optimization project, Mitsubishi Chemical Corporation, Japan, 01.03.2001-28.02.2002

PATENTS

PROFESSIONAL EXPERIENCE
Academic
Koç University, Department of Industrial Engineering, Associate Professor, December 2007-present
Koç University, Department of Industrial Engineering, Assistant Professor, September 2000-December 2007
Rutgers University, Piscataway, NJ, USA, Lecturer/Assistant Professor, January 1997-July 1997

Industry Experience
Mitsubishi Chemical Corporation, Japan
Principal Consultant, August 1997-July 2000

HONORS and AWARDS
IBM Faculty Award, 2009 (for the development of novel multi-group data classification approach)
IBM SUR (Shared University Research) Award, 2007 (for the development of sustainable supply chain and logistics systems)
Semi-Plenary Speaker, EURO XXII Meeting, Prague, Czech Republic, 2007, Seminar Title: Operations Research in Computational Biology, Bioinformatics and Medicine
TÜBİTAK Encouragement Award, 2006 (for contributions to mixed-integer programming)
TÜBİTAK Career Award, 2005 (for the development of environmentally conscious supply chain management models in energy sector and multi-objective optimization algorithms)
1997 AIChE/CAST Division Ted Peterson Award (sponsored by IBM Corporation, for the development of pioneering generalized disjunctive programming models and solution algorithms in the optimization of nonlinear process networks)
18th CMU ChEGSA Symposium Award, 1996 (for excellence in oral presentation by a graduate student)
Graduate Fellowship Award, Carnegie Mellon University, May 1993-December 1996
Fulbright Scholarship Award, Carnegie Mellon University, July 1992-May 1993
Sami Kırdar Scholarship, Middle East Technical University, January 1987-December 1989

MEMBER
CHAIR, EURO Working Group on Operational Research in Computational Biology, Bioinformatics and Medicine
YAD (Yöneylem Araştırmaları Derneği) member since 2000
ISCB (International Society for Computational Biology) member since 2003
INFORMS (Institute for Operations Research and the Management Sciences) member since 1998
AIChE (American Institute of Chemical Engineers) member since 1993
Ph.D. in Electrical Engineering, Georgia Institute of Technology, 1997; MS in Electrical Engineering, Georgia Institute of Technology, 1996; BS in Electrical Engineering, Middle East Technical University, 1992

Professor Ürey teaches circuit analysis, introduction to optics, introduction to micro-opto-electro-mechanical systems, and optical information processing. Professor Ürey’s recent research focuses on the areas of MEMS scanners for display and imaging systems, biosensors, MEMS thermal infrared imaging camera development, MEMS spectrometers, electrostatic and electromagnetic actuators, optical sensors, MEMS metrology tools, 3D displays.

SELECTED PUBLICATIONS
8 edited books, 2 book chapters, 30 international journal papers, 18 US patents, more than 100 conference papers, more than 20 invited talks and seminars

GRANTS and CONSULTING
Microvision Inc.-USA; MEMS and FR4 based laser scanner development; (2001-present)
HELIUM3D (EC 7th Framework STREP project); Multi-viewer 3D laser display development; (2008-2011)
MEMFIS(EC 7th Framework STREP project); Ultra-Miniaturized MEMS Spectrometer development; (2008-2011)
ASELSAN; Thermal imaging detector array with optical readout; (2005-present)
Fraunhofer Institute-IPMS-Germany; MEMS spectrometers; (2007-2008)
NSF-USA; Micro/Nano device characterization; (2005-2008)
TÜBİTAK Projects; Biosensor; Electro-plated magnetic actuators; Endoscopic imaging probe; (2003-2006, 2006-2009)


PATENTS
18 United States Patents issued more than 10 pending patents

PROFESSIONAL EXPERIENCE
Academic
October 2010 – present; Professor of Electrical and Electronics Engineering, Koç University
September 2007- October 2010; Associate Professor of Electrical and Electronics Engineering, Koç University
Sept.2001-September 2007; Assistant Professor of Electrical and Electronics Engineering, Koç University

Industry Experience
2001-present, Consultant, Microvision Inc.

HONORS and AWARDS
TÜBİTAK-Encouragement Award (2009)
JCI (Junior Chamber Int.) Top Outstanding Young Person (TOYP) Award in Science and Technology (2008)
TÜBA-GEBİP Outstanding Young Scientist Award, Turkish Academy of Sciences (TÜBA) (2007)
Werner Von Siemens Excellence Award for outstanding research performance at Koç University (2006)
Doçent title from the Higher Education Council (YÖK) (2004)

MEMBER
IEEE (Sr. Member)
IEEE-LEOS
OSA
SPIE
YÜCEL YEMEZ
Associate Professor of Computer Engineering

3D CAPTURE, MODELING & TRANSMISSION
CONTENT-BASED 3D RETRIEVAL
3D DIGITIZATION OF CULTURAL HERITAGE
COMPUTER VISION & GRAPHICS

Image Processing
Pattern Recognition
Biometrics
Multimodal Signal Processing

Ph.D. in Electrical and Electronics Engineering, Boğaziçi University, 1997; M.S.E. in Electrical and Electronics Engineering, Boğaziçi University, 1992; B.Sc in Electrical and Electronics Engineering, Middle East Technical University, 1989

Professor Yemez teaches computer vision, computer graphics, discrete mathematics. His recent research focuses on the areas of 3D capture, modeling & transmission, shape correspondence and matching, content-based 3D retrieval, 3D digitization of cultural heritage, computer vision & graphics, image processing, pattern recognition, biometrics, multimodal signal processing.

SELECTED PUBLICATIONS
Y. Yemez and F. Schmitt, “Multilevel Representation and Transmission of Real Objects with Progressive Octree

GRANTS and CONSULTING
SIMILAR, European FP6 Network of Excellence on ‘Human-machine interfaces similar to human-human communication’, 2004-2008
Programme of Integrated Actions (PIA), TÜBİTAK and French Embassy, Cooperation with ENST-Paris and Boğaziçi Un., 2004
DPT Projesi, ‘Güvenli-Sürüş: Sinyal İşleme ve İletişim Teknolojileri Kullanılarak Araç, Sürüş ve Sürücü Güvenliğinin Arttırılması ve Kazaların Azaltılması’, started in July 2005
AYGAZ-Dara okuma ve tüp deformasyon tespit sistemleri, 2006
COST Action 2102: Cross-Modal Analysis of Verbal and Non-verbal Communication (CAVeNC), started in August 2006

PROFESSIONAL EXPERIENCE
Academic
2009-Present, Associate Professor of Computer Engineering, Koç University
2000-2009, Assistant Professor, Koç University
1990-1997, Teaching Assistant, Boğaziçi University

HONORS and AWARDS
Paper Award: M.E., Sargin, E. Erzin, Y. Yemez, A. M. Tekalp, A.

Paper Award: H. Dutagaci, B. Sankur, Y. Yemez, “3D Face Recognition,” IEEE 14th Signal Processing and Communications Applications (SIU), Antalya, April 2006


MEMBER
IEEE
Eurasip
EMINE YILMAZ
Assistant Professor of Computer Engineering

PhD, Northeastern University, 2007; MSc, Northeastern University, 2004; BSc, Middle East Technical University, 2002

Professor Yilmaz teaches machine learning, data mining, artificial intelligence, algorithms, probability and statistics. Her recent research focuses on information retrieval, web search, and applications of machine learning, statistics and information theory.

SELECTED PUBLICATIONS
Estimating Average Precision with Incomplete and Imperfect Information, Emine Yilmaz and Javed A. Aslam, In Proceedings of the 15th International Conference on Information and Knowledge Management (CIKM), October 2006, Invited to Appear In International Journal of Knowledge and Information Systems

PROFESSIONAL EXPERIENCE
Academic
Assistant Professor at Koç University; Jan. 2011
Associate researcher at Microsoft Research Cambridge; February 2008-Jan. 2011
Research assistant at Northeastern University; 2003-2007
Teaching assistant at Northeastern University; 2002-2003
Research intern at Microsoft Research Cambridge; June 2006-September 2006

Industry Experience
Research engineer at AkNet; July 2002-December 2002
Part-time researcher at Software Research and Development Center (SRDC); January 2002-July 2002
Research intern at Hahn-Meitner Institut; July 2001 - September 2001

HONORS and AWARDS
TREC (Text Retrieval Conference, National Institute of Standards and Technology) Terabyte and VID track adopts infAP, an evaluation measure proposed by Emine Yilmaz and Javed Aslam (July 2006)
Outstanding Researcher Award, Department of Computer and Information Science, Northeastern University (May 2006)
Selected for the Dean's Office honors/high honors list for all semesters in Middle East Technical University (September 1998 - June 2002)
IAESTE (The International Association for the Exchange of Students for Technical Experience) Scholarship (July 2001 - September 2001)

MEMBER
ACM
Ph.D. in Computer Science, Massachusetts Institute of Technology, 1998; M.Sc. in Computer Science, Massachusetts Institute of Technology, 1994; B.Sc. in Electrical Engineering, Massachusetts Institute of Technology, 1992

Professor Yüret teaches programming, probability, and machine learning. His recent research focuses on problems in computational linguistics including dependency parsing, word sense disambiguation, morphological analysis, statistical language modeling, and machine translation.

SELECTED PUBLICATIONS


GRANTS and CONSULTING
TÜBİTAK 1001 (106T553): Modelling of the Transcriptional Regulatory Network of the Yeast (Saccharomyces Cerevisiae) and Investigation of its Dynamics
TÜBİTAK 1001 (108E228): Word Sense Disambiguation and Semantic Relation Identification Using Statistical Language Models in Natural Language Processing
TÜBİTAK 1002 (108E257): The Regression Model of Machine Translation and Competing Translation Models
European Language Resources Association (ELDA/KU/2009/01/TURKISH-CORPUS): Production of a morphologically tagged Turkish corpus
Karakullukcu Consultancy: Production of a Turkish morphological analyzer and disambiguator for legal search applications

PATENTS
Method of utilizing implicit references to answer a query,
DENİZ YÜRET


PROFESSIONAL EXPERIENCE

Academic
2010–present, Director of CIT
2002–present, Assistant Professor of Computer Engineering, Koç University
1999–2000, PostDoc, MIT

Visiting Academic Positions
Summer 2005, MIT CSAIL
Summer 2008, MIT CSAIL

Industry Experience

MEMBER
ACL
AAAI
Computational Linguistics Journal Editorial Board