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EXCELLENCE

SCHOOL OF ENGINEERING
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Message from the Dean UConn School of Engineering



Dear Friends:

The School of Engineering at the University of Connecticut is home to over 100 top faculty members who blend research excellence with superb skill as teachers. Many of our faculty have made seminal contributions in their areas of research expertise, thereby helping to shape the technological landscape.

All of our tenured and tenure-track faculty hold doctoral degrees from respected colleges or universities and are committed researchers and educators. Our faculty have received countless national and international awards for seminal research contributions and excellence in teaching. Two are members of the prestigious National Academy of Engineering, and one is also a member of the National Academy of Sciences. Among our faculty are 45 Fellows of professional societies; more than 30 percent hold top editorial positions with leading engineering and scientific journals. Since 1999, the School of Engineering has established eight Endowed Named and Chair professorships in various technical areas.

It is my great privilege to acquaint you with some of the faculty accomplishments that define our School.

Mun Y. Choi
Dean

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Dr. Anthony J. DeMaria

Professor-in-Residence

Electrical & Computer Engineering Department

Member, **National Academy of Engineering** (1976)

Citation: “Developer of picosecond mode-locked lasers and contributions to high-power lasers.”

Member, **National Academy of Sciences** (1997), **Engineering Sciences Section**

Citation: “DeMaria’s pioneering research in picosecond laser pulse physics profoundly influenced the study of molecular and atomic dynamics, nonlinear optics, and plasma physics. He is credited with the first demonstration of picosecond laser pulses and contributed greatly to their generation, amplification, measurement, and applications.”

Anthony DeMaria is a Professor-in-Residence within the Electrical & Computer Engineering Department, Chief Scientist of Coherent, Inc. and a founder of DeMaria Electro-Optics Systems, Inc., Bloomfield, CT. Dr. DeMaria founded DeMaria Electro-Optics Systems, Inc. (DEOS) in 1994 and served as chairman and CEO until the company was purchased in 2001 by Coherent, Inc. Dr. DeMaria previously was employed with United Technologies Research Center for 33 years before retiring from UTRC in 1994. At UTRC he served as Assistant Director of Research for Microelectronics and Photonics, and prior to that, Assistant Director of Research for Electronics and Photonics Technologies (1981-93). Dr. DeMaria has pioneered strategic technologies that are widely acknowledged as profoundly important to the study of molecular and atomic dynamics, nonlinear optics and plasma physics. His research interests include photonics, lasers, electro-optics, acousto-optics, and non-linear optics.

Dr. DeMaria holds 45 U.S. patents in areas involving high-speed communications, microelectronic pressure sensors, multiplexers and other photonics and optics technologies. Dr. DeMaria is a Fellow of SPIE – the International Society for Optical Engineering, for which he served as President in 2003; IEEE; the American Physical Society; and the Optical Society of America, for which he served as president in 1982. He was a co-founding member of the Connecticut Academy of Science and Engineering (1977) and President (1997-03); and he is a member of the Connecticut Academy of Arts and Sciences.

He is the recipient of the Fairchild Distinguished Scholar award, California Institute of Technology (1982-83), Connecticut Medal of Technology Award (2004), UConn Academy of Distinguished Engineers award (2004), Fredric Ives Medal and Award of OSA (1988), IEEE Liebmann Award (1980), and the Rensselaer Polytechnic Institute Davies Medal and Award (1980).

Dr. Anthony DeMaria earned his Ph.D. in engineering physics from the University of Connecticut in 1965.



Dr. Amir Faghri

United Technologies Endowed Chair Professor in Thermal-Fluids Engineering
Department of Mechanical Engineering

Amir Faghri is the United Technologies Endowed Chair Professor in Thermal-Fluids Engineering and formerly the Dean of the School of Engineering (1998-2006). During his tenure as Dean, undergraduate enrollments rose by over 80 percent, the number of B.S. offerings was doubled, research expenditures rose by over 50 percent (2002 to 2004), and the School enjoyed significant growth in endowments. He previously served as Department Head of Mechanical Engineering (1994-1998), a position to which he was recruited through a nationwide search. Prior to joining UConn in 2004, he was the Brage Golding Distinguished Professor at Wright State University, Dayton (1989-93), professor and associate professor of Mechanical & Materials Science Engineering at Wright State University. His research areas of interest include heat and mass transfer, fluid mechanics, boiling and condensation, phase change and solidification, enhanced heat transfer, heat pipes and fuel cells.

Dr. Faghri is Executive Editor of the *Heat Transfer Engineering Journal (Thermal Storage & Heat Pipes)* and serves on the editorial boards of the *Journal of Enhanced Heat Transfer*, *Journal of Applied Thermal Engineering*, *Journal of Heat Transfer Research*, *International Journal of Heat and Mass Transfer*, *Communication in Heat and Mass Transfer*, *International Journal of Numerical Methods for Heat and Fluid Flow* and *Journal of Process Mechanical Engineering*.

Dr. Faghri has authored seven books and editorial volumes, more than 250 archival technical publications, including 150 journal papers, and six U.S. patents as the sole inventor. He is co-author of the textbook, *Transport Phenomena in Multiphase Systems*, published by Elsevier (2006) and author of *Heat Pipe Science and Technology*, published by Taylor & Francis Inc. (1995). He is a Fellow of the American Society of Mechanical Engineers and the recipient of the American Institute of Aeronautics & Astronautics (AIAA) Thermophysics Award (1998), the American Society of Mechanical Engineering (ASME) Heat Transfer Memorial Award (1998), and the ASME James Harry Potter Gold Medal (2006). In addition, he received the AIAA Certificate of Distinguished Service (1999) and is a member of the Connecticut Academy of Science and Engineering.

He received his Ph.D. degree from the University of California at Berkeley in 1976.



Dr. Yaakov Bar-Shalom

Marianne E. Klewin Professor in Engineering and Board of Trustees

Distinguished Professor

Department of Electrical & Computer Engineering

Yaakov Bar-Shalom, the Marianne E. Klewin Professor in Engineering, first joined the faculty of the Department of Electrical & Computer Engineering in 1976. He is widely credited with originating the probabilistic data association filter (PDAF) for target tracking in a low signal-to-noise ratio environment; pioneering the theoretical information limit for estimation in the presence of false measurements – and an algorithm that meets this limit; and developing the optimal track-to-track fusion (TtTF) equations for real-world asynchronous decentralized surveillance systems. These tools and tracking paradigms are used worldwide for target detection and tracking by military and national defense organizations. His research interests include multisensor/multitarget tracking, Bayesian estimation theory with application to remote sensing and information theoretic methods for combination of data from multiple sources.

Dr. Bar-Shalom has published more than 340 papers, seven books and numerous book chapters. His research is cited in 10,000 publications, testifying to its importance and relevance. His contributions cover virtually all aspects of target tracking, detection, estimation and data fusion, and many aspects of random systems theory and its applications. He was associate editor of *IEEE Transactions on Automatic Control* from 1976-77 and associate editor of *Automatica* from 1978-81. He is a Fellow of the IEEE and a recipient of the IEEE Dennis J. Picard Medal for Radar Technologies & Applications (2008); the IEEE Control Systems Society Distinguished Member Award (1987); the M. Barry Carlton Award for Best Paper in IEEE Transactions on AES (1996, 2000); the J. Mignona Data Fusion Award, Department of Defense JDL Data Fusion Group (2002); and the Distinguished Leadership and Dedicated Service Award, International Society of Information Fusion (2003).

He is a member of the Connecticut Academy of Science and Engineering, and he serves on the Department of Defense Single Integrated Air Picture Task Force (2003-08). Dr. Bar-Shalom is a member of the Board of Directors (1998-07) and served as President (2000, 2002) of the International Society for Information Fusion.

He earned his Ph.D. in electrical engineering from Princeton University in 1970.



Dr. Peter Luh

SNET Professor of Communications and Information Technologies
Department of Electrical & Computer Engineering

Peter Luh, SNET Professor of Communications and Information Technologies, is currently Head of the Department of Electrical & Computer Engineering. He joined the University of Connecticut in 1980 and has served in several administrative capacities in the School of Engineering. He served as Director of the Booth Engineering Center for Advanced Technology (BECAT) from 1997-2004. He was instrumental in winning support from the National Science Foundation to link UConn with the Internet II network. Dr. Luh's research interests include planning, scheduling, and coordination of design, manufacturing and service activities; configuration and operation of elevators and heating, ventilation, and air-conditioning (HVAC) systems for normal and emergency conditions; schedule and bid optimization and load/price forecasting for power systems; decision making under uncertain or distributed environments; mathematical optimization for large-scale systems; and engineering and socio-economic applications.

Dr. Luh has authored or co-authored 15 book chapters, more than 80 archival technical journal papers, and more than 200 conference papers on subjects as diverse as game theory, decision-making, power systems, and manufacturing systems. He is a Fellow of the IEEE and the recipient of the Distinguished Service Award, IEEE Robotics and Automation Society; King-Sun Fu Memorial Best Transactions Paper Award, IEEE Transactions on Robotics and Automation; and Outstanding Achievement Award presented by United Technologies Research Center. He is co-inventor on one U.S. patent.

He is founding Editor-in-Chief of *IEEE Transactions on Automation Science and Engineering* (2003-08) and Associate Editor of *Discrete Event Dynamic Systems* (1999-present), *IIE Transactions on Design and Manufacturing* (1997-present), and *ACTA Automatica Sinica* (2005-present). He was formerly the Technical/Associate Editor (1990-94), Editor (1995-1999) and Editor-in-Chief (1999-2003) of *IEEE Transactions on Robotics and Automation*; and a member and Council member (2000-2005) of the Connecticut Academy of Science and Engineering. He is a senior member of the Society of Manufacturing Engineers and the Institute of Industrial Engineers (IIE), and a member of the Institute for Operations Research and the Management Sciences (INFORMS) and Sigma Xi. He is also a Visiting Professor at the Center for Intelligent and Networked Systems, the Department of Automation, Tsinghua University, Beijing, China (2001-present).

He received his Ph.D. in applied mathematics from Harvard University in 1980.



Dr. Sanguthevar Rajasekaran

United Technologies Corporation Professor of Computer Science & Engineering
Department of Computer Science & Engineering

Sanguthevar Rajasekaran, United Technologies Corporation Professor of Computer Science & Engineering, is Director of the Booth Engineering Center for Advanced Technology and the GE E-Engineering Clinic at the University of Connecticut. Before joining the university in 2002, Dr. Rajasekaran was a Chief Scientist with Arcot Systems in Santa Clara, CA, a position he held while on temporary leave from his faculty position in the Computer & Information Science Department at the University of Florida, Gainesville. He previously was an assistant professor in the computer information systems department at the University of Pennsylvania (1988-94). His areas of expertise encompass applied algorithms, particularly parallel, randomized algorithms and computational geometry. His work on packet routing is considered by peers to be seminal, and his studies in integer sorting have helped pioneer new methodologies. Dr. Rajasekaran has expanded his work into bioinformatics and computational biology.

Dr. Rajasekaran has co-authored two textbooks, *Computer Algorithms/C++* (1997) and *Computer Algorithms* (1998), both published by W.H. Freeman Press. He has co-edited five books on algorithms and related topics. In addition he has authored 21 book chapters and more than 150 archival journal publications and conference proceedings. He has secured nine U.S. patents, alone and in collaboration with other researchers at Arcot Systems and the University of Florida.

He is Associate Editor of the electronic international journal, *Computing Letters* (2005-present), Subject Area Editor of the *Journal of Parallel and Distributed Computing*, an Editorial Board member of the *Journal of Interconnection Networks*, and former Area Editor, *IEEE Transactions on Computers* (1996-99). He is a Fellow of the IEEE.

He was awarded his Ph.D. in computer science at Harvard University in 1988.



Dr. Robert Weiss

*UTC Professor of Advanced Materials & Processing, and
Board of Trustees Distinguished Professor (2003)*

Department of Chemical, Materials & Biomolecular Engineering

Robert Weiss is the UTC Professor of Advanced Materials & Processing and a Board of Trustees Distinguished Professor. Dr. Weiss joined the university in 1981. His research focuses primarily on ionomers, a type of polymer containing bonded salt or acid groups. His interests also span proton exchange membranes - used in fuel cells, polymer blends, wetting of thin polymer films, electrically conductive polymers, and hydrophobically modified hydrogels. He is a Fellow of the American Physical Society, the Society of Plastics Engineers, the American Thermal Analysis Society and the Polymeric Materials: Science and Engineering Division of the American Chemical Society.

Dr. Weiss is a former Associate Director of the Institute of Materials Science, an interdisciplinary research institute, and former Director of the Polymer Program at UConn. He is the inventor or co-inventor on 18 U.S. patents and has published more than 400 peer-reviewed journal articles, book chapters and conference proceedings. Among the honors Dr. Weiss has received are the Society of Plastics Engineers' 2008 International Award, presented in recognition of his lifetime achievements in plastics research, International Research Award (2002), International Education Award (2000), and Fred O. Conley Award for Plastics Engineering/Technology (2003).

At the University level, Dr. Weiss was named the Anthony T. DiBenedetto Distinguished Professor of Engineering in 1998. He is Editor-in-Chief of the Society of Plastics Engineers' journals, *Polymer Engineering and Science* (1996-current) and *Polymer Composites* (1997-current). He previously was Associate Editor of both publications. Dr. Weiss serves on the Editorial Boards of *Macromolecules*, the *Journal of Applied Polymer Science*, *Polymer and Polymer Composites*, and *Chemistry Central Journal*. He is also an adjunct professor of Materials Science at the University of Florida.

He was awarded his Ph.D. in chemical engineering at the University of Massachusetts-Amherst in 1976.



Dr. Bahram Javidi

Board of Trustees Distinguished Professor (2004)

Department of Electrical & Computer Engineering

Bahram Javidi joined the University of Connecticut in 1988. His research includes three-dimensional (3D) optical imaging, display, recognition and visualization; secure information systems; automated visualization and recognition of biological micro/nano organisms using optical systems; biomedical image analysis; photon counting imaging; and communications systems. His research has various applications in image sensing and recognition, homeland security, medicine and military uses.

He is Fellow of the IEEE, the American Institute for Medical and Biological Engineering (AIMBE), the Optical Society of America (OSA), the International Society for Optical Engineering (SPIE), the Institute of Physics (IoP), the Society for Imaging Science & Technology (IS&T) and the Institution of Electrical Engineers (IEE). Dr. Javidi is the recipient of a 2008 Helmholtz-Humboldt Research Awards for U.S. scientists; the 2008 International Society for Optical Engineering (SPIE) Technology Achievement Award; the 2008 Fellow Award from the John Simon Guggenheim Memorial Foundation in recognition of his work on real-time 3D optical imaging and identification; the Dennis H. Gabor Award, presented by SPIE (2005); the Distinguished Lecturer Award, presented by the IEEE Lasers and Electro-optics Society (2004-05); and a Presidential Young Investigator Award, presented by the National Science Foundation (1990). He also received the University of Connecticut Chancellor's Research Excellence Award. He was invited in 2003 to participate in the German-American Frontiers of Engineering Symposium of the National Academy of Engineering (NAE), an honor reserved for a select group of emerging engineering leaders aged 30-45. He is now an alumnus of the Frontiers of Engineering of the NAE.

Dr. Javidi is inventor and co-inventor on 19 U.S. patents. He has authored/co-authored 8 books and 45 book chapters, more than 250 archival journal articles, and over 330 conference proceedings, including over 100 plenary, keynote and invited conference papers. His publications have been cited over 4,500 times (Citation Index of WEB of Science). His papers have appeared in *Physics Today* and *Nature*.

He is Editor-in-Chief of the Springer-Verlag book series, *Advanced Sciences & Technologies for Security Applications*. In addition, he serves on the editorial boards of the *Proceedings of the IEEE Journal*, *IEEE Journal of Display Technology* and *Optical and Fiber Communications Reports* (Springer-Verlag).

He earned his Ph.D. in electrical engineering at The Pennsylvania State University in 1986.

FELLOWS: MAJOR PROFESSIONAL SOCIETIES

Mark Aindow (Chemical, Materials & Biomolecular Engineering)
Fellow, The Institute of Physics (UK)
Fellow, Institute of Materials, Minerals and Mining

A.F.M. Anwar (Electrical & Computer Engineering)
Fellow, International Society for Optical Engineering (SPIE)

Keith Barker (Computer Science & Engineering)
Fellow, Institution of Electrical Engineers (IEE) UK

Yaakov Bar-Shalom (Electrical & Computer Engineering)
Fellow, IEEE

James P. Bell (Chemical, Materials & Biomolecular Engineering)
Patrick Fellow, Adhesion Society

Theodore Bergman (Mechanical Engineering)
Fellow of American Society of Mechanical Engineers (ASME)

Stephen Boggs (Electrical & Computer Engineering)
Fellow, IEEE

Harold Brody (Chemical, Materials & Biomolecular Engineering)
Fellow, ASM International

C. Barry Carter (Chemical, Materials & Biomolecular Engineering)
Fellow, American Ceramic Society

Baki Cetegen (Mechanical Engineering)
Fellow, American Society of Mechanical Engineers (ASME)

Robert Coughlin (Chemical, Materials & Biomolecular Engineering)
Fellow, American Institute of Chemical Engineers (AIChE)

Eli Dabora (Mechanical Engineering)
Fellow of American Society of Mechanical Engineers (ASME)

Anthony DeMaria (Electrical & Computer Engineering)
Fellow, International Society for Optical Engineering (SPIE)
Fellow, IEEE
Fellow, American Physical Society
Fellow, Optical Society of America

John DeWolf (Civil & Environmental Engineering)
Fellow, American Society of Civil Engineers (ASCE)

Eric Donkor (Electrical & Computer Engineering)
Fellow, SPIE – the International Society for Optical Engineering

John Enderle (Electrical & Computer Engineering)
Fellow, IEEE
Fellow, American Institute for Medical and Biological Engineering
Fellow, American Society for Engineering Education

Gerald Engel (Computer Science & Engineering)
Fellow, CSAB
Fellow, Association of Computing Machinery
Fellow, IEEE

Howard Epstein (Civil & Environmental Engineering)
Fellow, American Society of Civil Engineers (ASCE)

Amir Faghri (Mechanical Engineering)
Fellow, American Society of Mechanical Engineers (ASME)

Maurice Gell (Chemical, Materials & Biomolecular Engineering)
Fellow, ASM International

Bahram Javidi (Electrical & Computer Engineering)
Fellow, American Institute for Medical and Biological Engineering (AIMBE)
Fellow, Optical Society of America
Fellow, IEEE
Fellow, International Society for Optical Engineering (SPIE)
Fellow, Institute of Physics (IoP)
Fellow, Institution of Electrical Engineers (IEE)

Eric Jordan (Mechanical Engineering)
Fellow, American Society of Mechanical Engineers (ASME)

Kazem Kazerounian (Mechanical Engineering)
Fellow, American Society of Mechanical Engineers (ASME)

Lee Langston (Mechanical Engineering)
Fellow, American Society of Mechanical Engineers (ASME)

Peter Luh (Electrical & Computer Engineering)
Fellow, IEEE

Robert Magnusson (Electrical & Computer Engineering)
Fellow, Optical Society of America
Fellow, SPIE – the International Society for Optical Engineering

Harris Marcus (Chemical, Materials & Biomolecular Engineering)
Fellow, ASM International

Nejat Olgac (Mechanical Engineering)
Fellow, American Society of Mechanical Engineers (ASME)

Krishna Pattipati (Electrical & Computer Engineering)
Fellow, IEEE

Ranga Pitchumani (Mechanical Engineering)
Fellow, American Society of Mechanical Engineers (ASME)

Sanguthevar Rajasekaran (Computer Science & Engineering)
Fellow, IEEE

Leon Shaw (Chemical, Materials & Biomolecular Engineering)
Fellow, ASM International
Fellow, World Academy of Materials and Manufacturing Engineering (AMME), Poland

Montgomery T. Shaw (Chemical, Materials & Biomolecular Engineering)
Fellow, Society of Plastics Engineers

Geoff Taylor (Electrical & Computer Engineering)
Fellow, IEEE

T.C. Ting (Computer Science & Engineering)
Fellow, Computing Research Association

Robert A. Weiss (Chemical, Materials & Biomolecular Engineering)
Fellow, American Physical Society
Fellow, Society of Plastics Engineers
Fellow, American Thermal Analysis Society
Fellow, Polymeric Materials: Science and Engineering Division, American Chemical Society

Peter Willett (Electrical & Computer Engineering)
Fellow, IEEE

EDITORIAL HONORS

Nelly Abboud

Associate Editor, *Fluid/Particle Separation Journal*, 1994-97

Mark Aindow

Deputy Editor-in-Chief (January '08 – date) and Editor (July '04 – January '08), *Journal of Materials Science*, Kluwer
Member, Editorial Board, *Research Letters in Materials Science*, 2007 - date
Member, Editorial Board, *Advances in Materials Science and Engineering*, 2008 - date

Reda Ammar

Member, Editorial Board, the *International Journal of Intelligent Computing and Information Sciences*, 2003-present
Member, Editorial Board, the *International Journal of Software Engineering (IJSE)*, 2007-present
Member, Editorial Board, the *International Journal of Software Architectures (IJS.A)*, 2007-present
Member, Editorial Board, the *Advances in Software Engineering*
Associate Editor, *Computing Letters*, 2004-present
Editor-in-Chief, *International Journal of Computers and Their Applications*, 2001-2007
Associate Editor, *International Journal on Software Engineering*
Associate Editor, *International Journal of Computers and Their Applications*, 1994-2000

Mehdi Anwar

Editor, *IEEE Transactions on Electron Devices*, 2001-present

Emmanouil N. Anagnostou

Associate Editor, *Journal of Hydrology*

Amvrossios C. Bagtzoglou

Environmental Engineering Topical Editor, *Encyclopedia of Earth*
Editor, *Water, Air, and Soil Pollution: Innovative Remediation Technologies for Pollution Abatement*
Associate Editor, *Journal of the American Water Resources Association*
Associate Editor, *Inverse Problems in Science and Engineering*
Member, Editorial Board, *Journal of Environmental Forensics*
Member, Editorial Board, *Stochastic Environmental Research and Risk Assessment*
Member, Editorial Board, *The Open Civil Engineering Journal*
Member, Editorial Board, *The Open Environmental Engineering Journal*
Editorial Board, *Environmental Forensics*, 2002-05

Rajeev Bansal

Associate Editor, *IEEE Antennas and Propagation Magazine*, 1987-present
Associate Editor, *IEEE Microwave Magazine*, 2000-present
Member, Editorial Board, *International Journal of RF and Microwave Computer-Aided Engineering*, 2004-present
Member, Editorial Board, *Progress in Electromagnetics Research (PIER online)*
Member, Editorial Board, *Journal of Electromagnetic Waves and Applications*, 1991-00
Associate Editor, *Radio Science*, 1991-00

Keith Barker

Editor, *Computer Science Education Journal*, 1991-96, 1998-01

Yaakov Bar-Shalom

Associate Editor, *IEEE Transactions on Automatic Control*, 1976-77
Associate Editor, *Automatica*, 1978-81

Theodore L. Bergman

Member, Editorial Board, *Heat Transfer Recent Contents*, 1998-01

Associate Editor, *ASME Journal of Heat Transfer*, 1995-98
Member, Editorial Board, *ASME Journal of Heat Transfer*, 1995-97

Steven Boggs

Contributing Editor, *IEEE Electrical Insulation Magazine*

C. Barry Carter

Editor-in-Chief, *Journal of Materials Science*, Springer, 2004-present
Member, Editorial Board, *Journal of Microscopy*, Blackwells, 1999-present
Member, Editorial Board, *Materials Characterization*, Elsevier, 1997-present
Member, Editorial Board, *Microscopy and Microanalysis*, Springer/CUP, 2004-present
Editor, *Journal of Microscopy*, Blackwells, 1995-1998
Editor, *Microscopy and Microanalysis*, Springer/CUP, 2000-2004

Wilson K.S. Chiu

Associate Editor, *International Journal of Thermal Sciences*, 2007 - present
Member, Editorial Advisory Board, *The Open Energy and Fuels Journal*, 2007 - present
Board Member, *The Open Renewable Energy Journal*, 2008 - present

Robert Coughlin

Member, Editorial Board, *Bioinvention*, ~1981-89

Jun-Hong Cui

Member, Editorial Board, Elsevier *Ad Hoc Networks*, December 2007-present

Eli K. Dabora

Editor, *Shock Waves*, an International Journal on Shock Waves, Detonations and Explosions, 1994-99

Anthony J. DeMaria

Associate Editor, *IEEE Journal of Quantum Electronics*, 1968-77
Editor, *IEEE Journal of Quantum Electronics*, 1977-82

Kenneth Demars

Technical Co-Editor-in-Chief, *ASTM Geotechnical Testing Journal*, 1995-present
Member, Editorial Board, *Journal of Marine Georesources and Geotechnology*, 1986-present

John DeWolf

Associate Editor, *Structural Health Monitoring*, 2002-present
Associate Editor, *Structural Engineering Practice*, 1982-83

Eric Donkor

Member, Editorial Board, *Journal of Nanoscience and Nanotechnology*, American Scientific Publishers, 2000-present

John Enderle

Editor-in-Chief, *IEEE EMB Magazine*, January 2002-present
Member, Editorial Advisory Board, International Journal of Neural Systems, 2005
Member, Editorial Board, The Open Biomedical Engineering Journal (OBE)

Gerald L. Engel

Member, Editorial Board, *Computer Science Education Journal*, 1991-present
Founding Editor, *Computer Science Education Journal*, 1987-91

Amir Faghri

North American Editor, *Journal of Enhanced Heat Transfer*, 1993-present
Executive Editor, *Heat Transfer Engineering Journal* (Thermal Storage & Heat Pipes), 1993-present

Member, Editorial Board, *ASME Journal of Heat Transfer*, 1993-96
Member, Editorial Board, *Journal of Applied Thermal Engineering*, 1996-present
Member, Editorial Board, *Journal of Heat Transfer Research*, 1997-present
Honorary Member, Editorial Advisory Board, *International Journal of Heat and Mass Transfer*, 1997-present
Honorary Member, Editorial Advisory Board, *Communication in Heat and Mass Transfer*, 1997-present
Editorial Advisory Board, *International Journal of Numerical Methods for Heat and Fluid Flow*, 1998-present
Member, Editorial Board, *Journal of Process Mechanical Engineering*, 1998-03

Swapna S. Gokhale

Member, Editorial Board, *Open Software Engineering Journal*

Chun-Hsi Huang

Member, Editorial Board, *Medical Informatics Insights*, *Libertas Academica*, 2007-present

Bryan Huey

Member, Editorial Board, *Journal of Scanning Probe Microscopy*

Horea Ilies

Invited Associate Editor, *ASME Journal of Medical Devices*, fall 2006

John Ivan

Member, Editorial Advisory Board, *Accident Analysis & Prevention*, 2005-present

Member, Editorial Advisory Board, *Transportation Safety and Security*

Bahram Javidi

Editor-in-Chief, *Advanced Sciences & Technologies for Security Applications* book series, Springer-Verlag, 2003-present

Member, Editorial Board, *IEEE Journal of Display*, 2004-present

Member, Editorial Board, *Proceedings of the IEEE Journal*, 2007-present

Member, Editorial Board, *Optical and Fiber Communications Reports*, Springer-Verlag, 2002-2007

Topical Editor, *Journal of Optical Engineering*, 1998-2000

Topical Editor, *Optical Signal and Image Processing*, Marcel Dekker, 1998-present

Eric Jordan

Associate Editor, *ASME Journal of Engineering Materials and Technology*, 1992-98

Kazem Kazerounian

Associate Editor, *Mechanism and Machine Theory*, Pergamon, 2002-present

Associate Editor, *ASME Journal of Mechanical Design*, 1994-99

Member, Review Advisory Board, *ASME Applied Mechanics Reviews*, 1992-99

Lee Langston

Editor-in-Chief, *Transactions of the ASME, Journal of Engineering for Gas Turbines and Power*, 2001-06

Lanbo Liu

Associate Editor, *Journal of Environmental and Engineering Geophysics*

Associate Editor, *Geophysics*, 2003-05

Guest Editor, *Journal of Geophysics and Engineering*, 2006

Peter Luh

Editor-in-Chief (1999-03), Editor (1995-99), and Technical/Associate Editor (1990-94), *IEEE Transactions on Robotics and Automation*

Associate Editor, *IIE Transactions on Design and Manufacturing*, 1997-present

Associate Editor, *Discrete Event Dynamic Systems*, 1999-present

Associate Editor, *ACTA Automatic Sinica*, 2005-present

Member, Advisory Board, *IEEE Systems Journal*, 2006-present

Member, Senior Editors Panel and Advisory Committee, *IEEE Transactions on Automation Science and Engineering*
Member, Senior Editors Panel, *IEEE Transactions on Robotics*
Member, Advisory Board, *International Journal of Intelligent Computing and Cybernetics*, 2007-present
Member, Advisory Board, *International Transactions on Systems Science and Applications*, 2006-present
Founding Editor-in-Chief, *IEEE Transactions on Automation Science and Engineering*, 2003-December 2007
Editor-in-Chief (1999-2003), Editor (1995-1999), and Technical/Associate Editor (1990-1994), *IEEE Transactions on Robotics and Automation*
Associate Editor, *International Journal of Intelligent Control and Systems*, 1995- 2000
Editor, *IEEE Robotics and Automation Magazine*, 1996-1999
Associate Editor, *IEEE Transactions on Automatic Control*, 1989-1991

Robert Magnusson

Associate Editor and Member, Board of Editors, *Optical Engineering*, International Society for Optical Engineering, 2004-present
Topical Editor, *Applied Optics-Optical Technology & Biomedical Optics*, 2001-06

Ramesh Malla

Member, Editorial Board, *Journal of Aerospace Engineering*, American Society of Civil Engineers (ASCE), 1992- present
Member, Editorial Board, *International Journal of Space Structures*, 1998-present
Associate Editor, *Journal of Spacecraft and Rockets*, American Institute of Aeronautics and Astronautics (AIAA), 1995-01

Ion I. Mandoiu

Member, Editorial Board, *International Journal of Bioinformatics Research and Applications*, 2006-2007

Harris Marcus

Member, Editorial Board, *Rapid Prototyping Journal*, 1995-present

Robert McCartney

Co-Editor-in-Chief, *ACM Journal on Educational Resources in Computing*, 2006-present
Member, Editorial Board, *Journal of Computer Science Education*, 1998-present

Arthur McEvily

Associate Editor, *International Journal of Fatigue*, 1995-present
Technical Editor, *ASME Journal of Engineering Materials and Technology*, 1970-73

Nejat Olgac

Member, Editorial Board, *International Journal of Mechatronics and Manufacturing Systems*, 2006-present
Member, Editorial Board, *Journal of Vibration and Control*, 2005-present
Associate Editor, *ASME Journal of Dynamic Systems, Measurement and Control*, 1997-04
Guest Editor, *ASME Journal of Dynamic Systems, Measurement and Control*, special issue on Time Delayed Systems, Vol. 125, No. 2, June 2003

Richard Parnas

Member, Editorial Advisory Board, *Polymer Composites*
Member, Editorial Review Board, *Composites, Part A: Applied Science and Manufacturing*, 2005-present

Krishna Pattipati

Editor-in-Chief, *IEEE Transactions on Systems, Man, and Cybernetics (SMC): Part B - Cybernetics*, January 1998-December 2001

Ranga Pitchumani

Associate Technical Editor, *ASME Journal of Heat Transfer*, 2004-06
Member, Editorial Board, *Journal of Thermoplastic Composite Materials*, 1998- present

Sanguthevar Rajasekaran

Associate Editor, *Journal of Parallel and Distributed Computing*
Associate Editor, *International Journal of Computers and Their Applications*
Associate Editor, *Computing Letters*, 2005-present

Alexander Russell

Associate Editor-in-Chief, *Theory of Computation*, 2005-10

Montgomery Shaw

Associate Editor, *IEEE Transactions on Dielectrics and Electrical Insulation*, 1990-present

Dong-Guk Shin

Member, Editorial Board, *Bioinformatics and Biology Insights*, Libertas Academica

Howard A. Sholl

Founding Editor, *International Journal for Computers and Their Applications*, 1993
Editor-in-Chief, *International Journal for Computers and Their Applications*, 1994-01

Alexander Shvartsman

Member, Editorial Board, *Studia Informatica*, 1999-present
Co-Editor, *Distributed Computing*, Springer Special Issue, 2007-08

Erling Smith

Member, Editorial Board, *International Journal of Space Structures*, 1985-present

Mohammad Tehranipoor

Associate Editor, *Journal of Electronic Testing: Theory and Applications*
Editor, *TITC Newsletter*

Guiling Wang

Associate Editor, *Journal of Geophysical Research - Biogeosciences*, 2004-07

Mei Wei

Member, Editorial Board, *Journal of Biomimetics, Bioinformatics, and Biocomputing*
Member, Board of Review, *Metallurgical and Materials Transactions A*
Member, Editorial Board, *ASAIO Journal*

Robert Weiss

Editor-in-Chief, *Polymer Engineering and Science*, Society of Plastics Engineers, 1996-present
Editor-in-Chief, *Polymer Composites*, Society of Plastics Engineers, 1997-present
Member, International Advisory Board, *Polymer and Polymer Composites*, 1996-present
Member, Editorial Advisory Board, *Journal of Applied Polymer Science*, 2001-present
Member, Editorial Advisory Board, *Macromolecule*, 2004-present
Member, Editorial Advisory Board, *Chemistry Central Journal*, 2006-present
Associate Editor, *Polymer Engineering and Science*, Society of Plastics Engineers, 1987-96
Associate Editor, *Polymer Composites*, Society of Plastics Engineers, 1987-97

Peter Willett

Editor-in-Chief, *IEEE Transactions on Aerospace and Electronic Systems*, January 2006-present
Associate Editor, *IEEE Transactions on Aerospace and Electronic Systems Magazine*, June 2000-present
Associate Editor, *International Society for Information Fusion Journal of Advances in Information Fusion*, 2006-present
Editor, *IEEE AES Systems Magazine's* tutorial issues, 2003-2006
Associate Editor, ISIF's *Journal of Advances in Information Fusion*, 2004-present
Associate Editor, *IEEE Transactions on Systems, Man, and Cybernetics*, (Parts A, B, C), '98-2000
Associate Editor, *IEEE Transactions on Systems, Man, and Cybernetics*, (Parts A, B), 2000-2003

Associate Editor, *Target Tracking and Data Fusion for IEEE Transactions on Aerospace and Electronic Systems*, 1998-2006

Shengli Zhou

Associate Editor, *IEEE Transactions on Wireless Communications*, February 2005-present

Quing Zhu

Associate Editor, *IEEE Transactions on Systems, Man and Cybernetics (Part B)*, 2002-present

NATIONAL & INTERNATIONAL AWARDS

Pamir Alpay (Chemical, Materials & Biomolecular Engineering)

CAREER Award, National Science Foundation, 2002

Emmanouil Anagnostou (Civil & Environmental Engineering)

Young Investigator Award, National Aeronautics & Space Administration, 1999

CAREER Award, National Science Foundation, 2002

Plinius Medal, European Geophysical Society, 2002

Marie Curie Excellence Award, European Commission, 2005

Yaakov Bar-Shalom (Electrical & Computer Engineering)

IEEE Dennis J. Picard Medal for Radar Technologies & Applications, 2008

Theodore Bergman (Mechanical Engineering)

Presidential Young Investigator, National Science Foundation, 1986

Wilson K.S. Chiu (Mechanical Engineering)

CAREER Award, National Science Foundation, 2001

Young Investigator Award, Office of Naval Research, 2001

Army Research Office (ARO) Young Investigator Award, 2005

ASME Bergles-Rohsenow Young Investigator Award in Heat Transfer, American Society of Mechanical Engineers, 2006

David E. Crow (Mechanical Engineering)

National Academy of Engineering, 1998

Jun-Hong Cui (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2007

Young Investigator Award, Office of Naval Research, 2008

Anthony DeMaria (Electrical & Computer Engineering)

National Academy of Engineering, 1976

IEEE Liebmann Award, 1980

Fredric Ives Medal and Award, Optical Society of America, 1988

National Academy of Sciences, 1997

Amir Faghri (Mechanical Engineering)

Thermophysics Award, American Institute of Aeronautics & Astronautics, 1998

Heat Transfer Memorial Award, American Society of Mechanical Engineering, 1998

James Harry Potter Gold Medal, American Society of Mechanical Engineers, 2006

Mekonnen Gebremichael (Civil & Environmental Engineering)

New Investigator Program Award, National Aeronautics & Space Administration

Swapna Gokhale (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2007

Horea Ilies (Mechanical Engineering)

CAREER Award, National Science Foundation, 2007

Bahram Javidi (Electrical & Computer Engineering)

Presidential Young Investigator, National Science Foundation, 1988
Dennis H. Gabor Award, International Society for Optical Engineering, 2005
Distinguished Lecturer Award, IEEE Lasers and Electro-optics Society, 2004-05
Helmholtz-Humboldt Research Award, 2008
IEEE Donald G. Fink Prize, 2008
Fellow Award, John Simon Guggenheim Memorial Foundation, 2008
Technology Achievement Award, SPIE, 2008

Kazem Kazerounian (Mechanical Engineering)

Mechanisms and Robotics Award, American Society of Mechanical Engineering (ASME), 2006

Aggelos Kiayias (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2005

Jeong-Ho Kim (Civil & Environmental Engineering)

CAREER Award, National Science Foundation, 2006

Ion Mandoiu (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2006

Laurent Michel (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2007

Kevin D. Murphy (Mechanical Engineering)

CAREER Award, National Science Foundation, 1996

Ugur Pasaogullari (Mechanical Engineering)

CAREER Award, National Science Foundation, 2008

Ranga Pitchumani (Mechanical Engineering)

Young Investigator Award, Office of Naval Research, 1996

Michael Renfro (Mechanical Engineering)

CAREER Award, National Science Foundation, 2003

Alexander Russell (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2001

Montgomery Shaw (Chemical, Materials & Biomolecular Engineering)

International Research Award, Society of Plastics Engineers, 1998
International Award, International Society of Plastic Engineers, 2002

Zhijie Shi (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2007

Alexander Shvartsman (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2000

Bing Wang (Computer Science & Engineering)

CAREER Award, National Science Foundation, 2008

Robert Weiss (Chemical, Materials & Biomolecular Engineering)

International Education Award, Society of Plastics Engineers, 2000

International Research Award, Society of Plastics Engineers, 2002

Fred O. Conley International Engineering/Technology Award, Society of Plastics Engineers, 2003

International Award, Society of Plastics Engineers, 2008

Benjamin Wilhite (Chemical, Materials & Biomolecular Engineering)

Young Investigator Award, Office of Naval Research, 2007

DuPont Young Professor Award, 2007

Shengli Zhou (Electrical & Computer Engineering)

Young Investigator Award, Office of Naval Research, 2007

Lei Zhu (Chemical, Materials & Biomolecular Engineering)

CAREER Award, National Science Foundation, 2004

DuPont Young Professor Award, 2005

3M Nontenured Faculty Award, 2004



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