

2010 Class of Newly Elevated Fellows

Raj Acharya
The Penn State University
University Park, PA, USA
for contributions to biomedical imaging and bioinformatics

Tinku Acharya
Intellectual Ventures
Kolkata, West Bengal, India
for contributions to very large scale integration algorithms and architectures for electronic image processing

Charu Aggarwal
IBM Research
Hawthorne, NY, USA
for contributions to knowledge discovery and data mining techniques

John Edward Allen
Oxford University, UK
Oxford, England
for contributions to high current radio frequency discharges, sheath and wave phenomena, and electronegative and dusty plasmas

Eitan Altman
INRIA
Sophia-Antipolis, PACA, France
for contributions to analysis, optimization, and control of telecommunication networks

Srinivas Aluru
Iowa State University
Ames, IA, USA
for contributions to computational biology

Nancy M. Amato
Texas A&M University
College Station, TX, USA
for contributions to the algorithmic foundations of motion planning in robotics and computational biology

Joerg Appenzeller
Birck Nanotechnology Center
West Lafayette, IN, USA
for contributions to carbon nanotube transistors and circuits

Shigehisa Arai
Quantum Nanoelectronics Research Center
Meguro-ku, Tokyo, Japan
for contributions to single-mode semiconductor lasers for optical communications

Kazutami Arimoto
Renesas Technology Corporation
Itami, Hyogo, Japan
for development of high-density dynamic random access memory and embedded memory

David A. Bader
Georgia Institute of Technology
Atlanta, GA, USA
for contributions to parallel algorithms for combinatorial problems and computational biology

James Baker-Jarvis
National Institute of Standards and Technology
Boulder, CO, USA
for contributions to dielectric measurement and analysis of microwave measurement structures

Shanker Balasubramaniam
Michigan State University
East Lansing, MI, USA
for contributions to time and frequency domain in computational electromagnetics

Martin J. Bastiaans
Eindhoven University of Technology
Eindhoven, The Netherlands
for contributions to signal processing for optical signals and systems

Polina Bayvel
University College London (UCL)
London, UK
for contributions to the design of optical networks, with emphasis on wavelength-routing architectures and mitigation of optical-fiber impairments

Alberto Bemporad
University of Siena, Italy
Siena, Italy
for contributions to predictive control of constrained linear and hybrid systems

Shmuel (Sam) Ben-Yaakov
Ben-Gurion University of the Negev
Beer Sheva, Israel
for development of modeling and simulation methodologies for pulse width modulated and resonant converters

Dawant M. Benoit
Vanderbilt University
Nashville, TN, USA
for contributions to biomedical image analysis and image guided medical interventions

Samuel Paul Benz
National Institute of Standards and Technology
Boulder, CO, USA
for contributions to quantum-based Josephson junction array waveform synthesizer

Theodore William Berger
University of Southern California
Rancho Palos Verdes, CA, USA
for contributions to nonlinear systems modeling of neural tissue and development of neural prostheses

Jennifer T. Bernhard
University of Illinois at Urbana-Champaign
Urbana, IL, USA
for development of multifunctional, reconfigurable, and integrated antennas

Joseph Ernest Berthold
Ciena Corporation
Fallston, MD, USA
for leadership in optical internetworking

Dieter H. Bimberg
Technical University of Berlin
Berlin, Germany
for advancement of semiconductor nanostructures, and development of self-organized quantum dot lasers

E. Grady Booch
IBM Thomas J. Watson Research Center
Littleton, CO, USA
for contributions in software engineering and creation of the Unified Modeling Language

Athman Bouguettaya
CSIRO (Commonwealth Scientific and Industrial Research Organization)
Acton, ACT, Australia
for contributions to large scale autonomous and heterogeneous databases and service-oriented computing

James Edward Bowen
Powell Electrical Systems
Houston, TX, USA
for leadership in "safety by design" in electrical substation engineering

Georg Anton Brasseur
Graz University of Technology
Graz, Styria, Austria
for developments in electronic diesel engine control

Lionel C. Briand
Simula Research Laboratory
Lysaker, Norway
for contributions to testing of object-oriented software systems

Shira L. Broschat
Washington State University
Pullman, WA, USA
for contributions to modeling of rough surface electromagnetic scattering

Lorenzo Bruzzone
University of Trento
Trento, Italy
for contributions to pattern recognition and image processing for remote sensing

Francesco Bullo
University of California at Santa Barbara
Santa Barbara, CA, USA
for contributions to geometric and cooperative control with applications to mechanical and robotic systems

Douglas Christopher Burger
The University of Texas at Austin
Redmond, WA, USA
for contributions to processor and memory systems

Edgar Herbert Callaway
Motorola, Inc.
Plantation, FL, USA
for contributions to wireless sensor networks and low power design techniques for communications devices and systems

Christophe Caloz
École Polytechnique, Montréal
Montréal, QC, Canada
for contributions to the development and application of electromagnetic metamaterial structures

Sandoval Carneiro
Federal University of Rio De Janeiro
Rio De Janeiro, RJ, Brazil
for leadership in power systems research and engineering education

Ahmet Enis Cetin
Bilkent University
Ankara, MN, Turkey
for contributions to signal recovery and image analysis algorithms

Srimat T. Chakradhar
NEC Laboratories America
Manalapan, NJ, USA
for contributions to digital integrated circuit testing

Chein-I Chang
University of Maryland Baltimore County
Baltimore, MD, USA
for contributions to hyperspectral image processing

Gary W. Chang
National Chung Cheng University
Chia-Yi, Taiwan
for contributions to power system harmonics and interharmonics

Kuo-chu Chang
George Mason University
Fairfax, VA, USA
for contributions to multisensor data fusion and Bayesian inference

Norman Ross Chapman
University of Victoria
Victoria, BC, Canada
for contributions to geoacoustic characterization of ocean bottom environments

Amitava Chatterjee
Texas Instruments Inc
Dallas, TX, USA
for contributions to complementary metal oxide semiconductor device technology and on-chip electrostatic discharge protection

Hsiao-Hwa Chen
National Cheng Kung University
Tainan, Taiwan
for contributions to radio resource allocation in code division multiple wireless systems

Zhizhang David Chen
Dalhousie University
Halifax, Nova Scotia, Canada
for contributions to time-domain electromagnetic modeling and simulation

Wood-Hi Cheng
National Sun Yat-sen University
Kaohsiung, Taiwan
for contributions to high-speed semiconductor lasers and photonic package technology

Stefano Chiaverini
Università di Cassino
Cassino, FR, Italy
for contribution to kinematics and control of robot manipulators and autonomous vehicles

Isamu Chiba
Mitsubishi Electric Corporation
Kamakura, Kanagawa, Japan
for leadership in high precision phased array antenna systems with digital signal processing

Greg Chirikjian
Johns Hopkins University
Baltimore, MD, USA
for contributions to hyper-redundant manipulators

Roy D. Cideciyan
IBM Zurich Research Laboratory
Ruschlikon, Zurich, Switzerland
for contributions to signal processing and constrained coding for magnetic recording

Thomas Jay Cloonan
ARRIS
Lisle, IL, USA
for leadership in development of cable modem termination systems

Laurent D. Cohen
CNRS, France
Neuilly-Sur-Seine, France
for contributions to computer vision technology for medical imaging

Danny Cohen
Sun Microsystems, Inc.
Menlo Park, CA, USA
for contributions to protocols for packet switching in real-time applications

Robert Joseph Comisso
Naval Research Laboratory
Washington, DC, USA
for contributions to high-voltage pulsed-power systems, and high-current pulsed plasmas for opening switches

Peter M. Corcoran
National University of Ireland , Galway
Cregg, Claregalway, Co. Galway, Ireland
for contributions to digital camera technologies

Christine Ann Coverdale
Sandia National Laboratories
Albuquerque, NM, USA
for contributions to the development of neutron sources

Mariesa L. Crow
Missouri University of Science & Technology
Rolla, MO, USA
for contributions to power engineering education and to computational methods for power system analysis

Raffaello D'Andrea
ETH Zurich
Zurich, Switzerland
for contributions to control of multi-vehicle of autonomous systems

Mario Dagenais
University of Maryland
College Park, MD, USA
for contributions to photon correlation, semiconductor devices, and integration technologies

David Daniels
ERA Technology
Leatherhead, Surrey, UK
for contributions to Ground-Penetrating Radar

Michel Defrise
Vrije Universiteit Brussel
Brussels, Belgium
for contributions to computer tomography

Paul Emerson Dodd
Sandia National Laboratories
Albuquerque, NM, USA
for contributions to the understanding and simulation of single-event effects in microelectronics

Ray Dolby
Dolby Laboratories
San Francisco, CA, USA
for leadership in developing and commercializing practical noise reduction technology

Robert D. Doverspike
AT&T Labs Research
Middletown, NJ, USA
for contributions to architectures, modeling, and optimization of telecommunication networks

Dominique M. Durand
Case Western Reserve University
Cleveland, OH, USA
for contributions to the understanding of electromagnetic fields of human neurology

Benjamin John Eggleton
University of Sydney
NSW 2006, Australia
for contributions to the development and applications of Bragg gratings and other periodic structures in optical fibers

Hesham M. El-Gamal
Ohio State University
Columbus, OH, USA
for contributions to multiple-input multiple-output and cooperative communications

Ahmed K. El-Magarmid
Purdue University
West Lafayette, IN, USA
for contributions to transaction management, data integration and quality

Elmootazbellah N. Elnozahy
IBM Corporation
Austin, TX, USA
for contributions to rollback-recovery, low-power computing, highly-available file systems, and reliable computing systems

Jose Antonio Encinar Garcinuno
Universidad Politecnica De Madrid
Madrid, Spain
for contributions to analysis and design of reflectarray antennas

Diane L. Evans
Jet Propulsion Laboratory
Pasadena, CA, USA
for leadership in understanding of the Earth system through observations from space

Long-Sheng Fan
National Tsing Hua University
San Jose, CA, USA
for contributions to Micro Electro-Mechanical Systems

Ian Thomas Ferguson
Georgia Institute of Technology
Atlanta, GA, USA
for the development of semiconductor materials and devices for infrared and ultraviolet sensor applications

Katherine Ferrara
University of California, Davis
Davis, CA, USA
for contributions to ultrasound and its applications in molecular imaging and drug delivery

Mário Alexandre Teles Figueiredo
Technical University of Lisbon Portugal
Lisboa, Portugal
for contributions to pattern recognition and computer vision

Daniel R. Fuhrmann
Michigan Technological University
Houghton, MI, USA
for contributions to adaptive radar signal processing

Lixin Gao
University of Massachusetts Amherst
Amherst, MA, USA
for contributions to internet protocol and network routing

George C. Giakos
The University of Akron
Akron, OH, USA
for contributions to efficient imaging devices, systems and techniques

Yogesh B. Gianchandani
University of Michigan
Ann Arbor, MI, USA
for contributions to silicon-based microactuators and on-chip microplazmas

Gennady Gildenblat
Arizona State University
Tempe, AZ, USA
for contributions to modeling of metal-oxide semiconductor field effect transistors

Marc Hillel Goldberg
ASSIA, Inc.
Redwood City, CA, USA
for leadership in the development and commercialization of spectrally efficient wireless communications systems.

Charles Louis Goldsmith
MEMtronics Corporation
Plano, TX, USA
for development of micro-electromechanical capacitive switches

Aniruddha M. Gole
University of Manitoba
Winnipeg, Manitoba, Canada
for contributions to the modeling of power electronics apparatus

Ganesh Kumar Gopalakrishnan
Independent Consultant
Bethesda, MD, USA
for leadership in microwave photonics and high-speed optical lithium niobate modulator development

William D. Gropp
University of Illinois at Urbana Champaign
Urbana, IL, USA
for contributions to high performance computing and message passing

Guoxiang Gu
Louisiana State University
Baton Rouge, LA, USA
for contributions to robust identification and control

Pier Francesco Guarguaglini
Finmeccanica
Rome, Italy
for leadership in aviation, aerospace and defense communities

Donald Urban Gubser
Naval Research Laboratory
Washington, DC, USA
for contributions to applied superconductivity

Edward Gulski
Delft University of Technology
Delft, The Netherlands
for application of partial discharges to diagnosis of high voltage components

Baining Guo
Microsoft Research Asia
Haidian District, Beijing, China
for contributions to surface appearance modeling and rendering in computer graphics

Ali Hajimiri
California Institute of Technology
Pasadena, CA, USA
for development of high-speed silicon integrated-circuit oscillators, power amplifiers, and phased arrays

Hiroyuki Hama
Mitsubishi Electric Corporation
Amagasaki, Hyogo, Japan
for contributions to compact and reliable high-voltage equipment

Baheer Haroun
Texas Instruments Inc
Dallas, TX, USA
for development of submicron digital complementary metal-oxide semiconductor for wireless systems-on-chip

Richard Alan Hartlein
Georgia Institute of Technology - NEETRAC
Atlanta, GA, USA
for contributions to standards and analytical techniques for underground power cable systems

Richard Ian Hartley
Australian National University
Canberra, ACT, Australia
for contributions to computer vision industrial applications

Yutaka Hata
University of Hyogo
Himeji, Hyogo Prefecture, Japan
for contributions to fuzzy logic based image processing in biomedical informatics

Xiangning He
Zhejiang University
Hangzhou, Zhejiang, China
for leadership in establishing a power electronics research institute in China

Joseph Hellerstein
Google, Inc.
Seattle, WA, USA
for contributions to control engineering for performance management of computing systems

James Hendler
Rensselaer Polytechnic Institute
Troy, NY, USA
for contributions to artificial intelligence, and development of the semantic web

Burkard Hillebrands
Technical University Kaiserslautern
Kaiserslautern, Rhineland-Palatinate, Germany
for contributions to the understanding of magnetic excitations, including linear and nonlinear spin waves

Christopher L. Holloway
National Institute of Standards and Technology
Boulder, CO, USA
for application of new material in the field of electromagnetic compatibility

Masashi Horiguchi
Renesas Technology Corp.
Kodaira-shi, Tokyo, Japan
for contributions to circuit technologies for high-density low-power memories

Bedrich Jaroslav Hosticka
Fraunhofer Inst. Of Microelectronic Circuits and Systems
Duisburg, Germany
for contributions to analog integrated circuits and sensor systems

Powen Hsu
National Taiwan University
Taipei, Taiwan
for leadership in electrical engineering education

Ching-Wen Hsue
National Taiwan Univ. of Science & Technology (NTUST)
Taipei, Taiwan
for contribution to discrete-time signal processing in microwave engineering

Qing Hu
Massachusetts Institute of Technology
Cambridge, MA, USA
for contributions to terahertz (THz) quantum-cascade lasers and applications

John Impagliazzo
Qatar University
Doha, Qatar
for contributions to computing education

Yannis Ioannidis
University of Athens
Athens, Greece
for contributions to database systems including query optimization and data management

Dimitrios Evangelos Ioannou
George Mason University
Fairfax, VA, USA
for contributions to reliability and characterization of silicon-on-insulator devices and materials

Arthur Thomas Johnson
University of Maryland
College Park, MD, USA
for leadership in bioengineering education

David R. Kaeli
Northeastern University
Boston, MA, USA
for contributions to profile-guided optimization algorithms and dynamic branch prediction designs

Andrew B. Kahng
UC San Diego
La Jolla, CA, USA
for contributions to the design for manufacturability of integrated circuits, and the technology roadmap of semiconductors

Shivkumar Kalyanaraman
IBM India Research Laboratory
Bangalore, Karnataka, India
for contributions to traffic management in computer communication networks

Pooi Yuen Kam
National University of Singapore
Singapore, Singapore
for contributions to receiver design and performance analysis for wireless communications

Yoshio Karasawa
The University of Electro-Communications
Chofu, Tokyo, Japan
for contributions to the measurement and modeling of propagation effects in radio communication systems

Mohammad A. Karim
Old Dominion University
Norfolk, VA, USA
for leadership in engineering education through creation of interdisciplinary programs

Matti A. Karjalainen
Helsinki University of Technology- TKK
Espoo, Finland
for contributions to perceptual audio signal modeling and processing

Nikola Kirilov Kasabov
Auckland University of Technology
Auckland, Auckland, New Zealand
for the applications of neural networks and hybrid systems in computational intelligence

David Clark Keezer
Georgia Institute of Technology
Atlanta, GA, USA
for contributions to high-speed digital test technology

Takamaro Kikkawa
Hiroshima University
Higashi-Hiroshima, Hiroshima, Japan
for contributions to interconnect technologies for integrated circuits

Fanny Klett
Fraunhofer Institute Digital Media Technology
Ilmenau, Germany
for contributions to development and application of educational technologies

Yasuo Kokubun
Yokohama National University
Yokohama, Japan
for contributions to integrated photonic devices

Johann Walter Kolar
Swiss Federal Institute of Technology (ETH) Zurich
Zurich, Switzerland
for contributions to three-phase pulsed width modulation converter systems

Venkat Sharma Kolluri
Entergy Corporation
Metairie, LA, USA
for the application of advanced technologies to voltage stability problems

Rhee Jin Koo
Dongguk University
Seoul, Korea
for contributions to Gallium Arsenide, Microwave and Millimeter-wave Monolithic Integrated Circuits

Bart Kosko
University of Southern California
Los Angeles, CA, USA
for contributions to neural and fuzzy systems

Shiban Koul Koul
Indian Institute of Technology Delhi
Delhi, India
for contributions to analysis and design of microwave and millimeter wave components and circuits

Gerhard Guenter Theodor Kramer
University of Southern California
Los Angeles, CA, USA
for contributions to coded modulation, iterative decoding, and cooperative communications

Uwe Erich Kraus
Univ. of Wuppertal, Germany
Wuppertal, Germany
for contributions to digital television signal compression and transmission

Marwan Krunz
University of Arizona
Tucson, AZ, USA
for contributions to resource management policies in wireless networks

Jun-ichi Kushibiki
Tohoku University
Sendai, Miyagi, Japan
for contributions to ultrasonic metrology and acoustic microscopy

Richard Lai
Northrop Grumman Aerospace Systems
Redondo Beach, CA, USA
for development and space-qualified insertion of millimeter-wave transistor and integrated-circuit technologies

Andrew Francis Laine
Columbia University
New York, NY, USA
for contributions to wavelet applications in digital mammography, and ultrasound image analysis

Tor Sverre Lande
University of Oslo
Oslo, Norway
for contributions to low-power subthreshold circuit design

Michael Arthur Laughton
Queen Mary University of London
London, UK
for contributions to the understanding of power systems dynamics

Roger George Lawrence
RGL Solutions
Cary, NC, USA
for contributions to energy efficient Adjustable Speed Drive systems

Yusuf Leblebici
Swiss Federal Institute of Technology
Lausanne, Switzerland
for contributions to reliability and design techniques for integrated circuits and systems

Chang-Hee Lee
Korea Advanced Institute of Science and Technology(KAIST)
Daejeon, S. Korea
for contributions to wavelength division multiplexed-passive optical network

Seong-Whan Lee
Korea University
Seoul, Korea
for contributions to pattern recognition for biometrics and document image analysis

Patrick M. Lenahan
Pennsylvania State University
University Park, PA, USA
for contributions to understanding of radiation damage and reliability of metal-oxide semiconductor devices

James V. Leonard
Boeing
St. Charles, MO, USA
for contributions to the integration of military avionics

Ping Li
City University of Hong Kong
Hong Kong, China
for contributions to iterative signal processing, multi-user detection and concatenated error control codes

Wanjiun Liao
National Taiwan University
Taipei, Taiwan
for contributions to communication protocols in multimedia networking

Jenshan Lin
University of Florida
Gainesville, FL, USA
for contributions to integrated microwave circuits and systems for wireless sensors

Ching-Fuh Lin
National Taiwan University
Taipei, Taiwan
for contributions to broadband semiconductor optical devices

Chih-Min (Jimmy) Lin
Yuan Ze University
Chung-Li, Taiwan
for contributions to fuzzy system, neural network, and cerebellar model articulation controllers

Lih Y. Lin
University of Washington
Seattle, WA, USA
for contributions to optical micro-electro-mechanical systems switching technologies

Kwei-Jay Lin
University of California, Irvine
Irvine, CA, USA
for contributions to imprecise computations for scheduling real-time systems

Bernabe Linares Barranco
Consejo Superior de Investigaciones Cientificas (CSIC)
Sevilla, Spain
for contributions to the design and application of linear and nonlinear circuits in neuromorphic systems

Duixian Liu
IBM Thomas J. Watson Research Center
Yorktown Heights, NY, USA
for contributions to portable system and millimeter wave antenna design

Shen-luan Liu
National Taiwan University
Taipei, Taiwan
for contributions to high-speed phase-locked and delay-locked loop circuit design

Rich Liu
Macronix International Co. Ltd.
Hsinchu, Taiwan
for leadership in electron-beam mask writing, interconnects, and non-volatile technology development

Chang Liu
Northwestern University
Evanston, IL, USA
for contributions to bio-inspired and polymer micro electro-mechanical systems

John C.S. Lui
The Chinese University of Hong Kong
Shatin NT, Hong Kong, China
for contributions to performance modeling and analysis of storage communication systems and peer-to-peer networks

Stan Lumish
Red Bank, NJ, USA
for leadership in the development and implementation of commercial terrestrial lightwave systems

Kevin Michael Lynch
Northwestern University
Evanston, IL, USA
for contributions to robotic manipulation, motion planning, and control of mechanical systems

Soren Norvang Madsen
Jet Propulsion Laboratory
Pasadena, CA, USA
for leadership in the design and development of airborne and spaceborne remote sensing instruments

Andrew Marshall
Texas Instruments
Dallas, TX, USA
for contributions to process development and design of integrated circuits

Margaret Rose Martonosi
Princeton University
Princeton, NJ, USA
for contributions to power-efficient computer architecture and systems design

Peter Marwedel
Technische Universitaet Dortmund
Dortmund, Germany
for contributions to compilation techniques and embedded system design

Tadashi Matsumoto
Japan Advanced Institute of Science and Technology
Ebina, Kanagawa, Japan
for contributions to signal processing for wireless communications

Larry Henry Matthies
Jet Propulsion Laboratory
Pasadena, CA, USA
for contributions to perception systems for autonomous navigation of unmanned vehicles

Peter Clive Maxwell
Aptina Imaging
San Jose, CA, USA
for contributions to testing of digital logic circuits

Mark Thomas Maybury
The MITRE Corporation
Bedford, MA, USA
for contributions to language processing, broadcast video analysis, and intelligent user interfaces

Imran I. Mehdi
Jet Propulsion Laboratory
Pasadena, CA, USA
for contributions to submillimeter-wave device technology

Francisco Medina Mena
University of Seville
Sevilla, Sevilla, Spain
for contributions to the analysis and physical understanding of planar structures, anisotropic media, and metamaterials

Carmen S. Menoni
Colorado State University
Fort Collins, CO, USA
for contributions to nano-scale imaging with ultraviolet lasers, and semiconductor optical materials and devices

Peyman Milanfar
University of California, Santa Cruz
Santa Cruz, CA, USA
for contributions to inverse problems and super-resolution in imaging

Jovica Milanovic
University of Manchester
Manchester, UK
for contributions to power system dynamics and power quality

Victor Saul Miller
IDA Center for Communications Research
Princeton, NJ, USA
for contributions to elliptic curve cryptography

Craig Hillard Miller
Bellevue, WA, USA
for research on discharges and electrical insulation in vacuum

Dejan Spasoje Milojevic
Hewlett Packard
Palo Alto, CA, USA
for contributions to distributed systems software and mobile programming abstractions

Kaizad Romy Mistry
Intel Corporation
Hillsboro, OR, USA
for contributions to high performance complementary metal-oxide semiconductor technology and reliability

Joseph Mitola
Steven Institute of Technology
Gainesville, FL, USA
for contribution to software-defined and cognitive radio technologies

Prasant Mohapatra
University of California, Davis
Davis, CA, USA
for contributions to the quality of service provisioning in computer networks

Lon W. Montgomery
Siemens Energy, Inc.
Orlando, FL, USA
for contributions to design of large synchronous generators

Randolph Lyle Moses
The Ohio State University
Columbus, OH, USA
for contributions to statistical signal processing

Eliot Blakeslee Moss
University of Massachusetts Amherst
Amherst, MA, USA
for contributions to transactional computing and memory management

Eduard Muljadi
National Renewable Energy Laboratory
Lakewood, CO, USA
for contributions to wind turbine control and integration of wind power into the power system grid

Robin Roberson Murphy
Texas A&M University
College Station, TX, USA
for contributions to rescue robotics and insertion of robots into major disasters

Ashwini Kumar Nanda
HPC Research Inc
New Delhi, India
for leadership in high performance computer systems

Arokia Nathan
University College London
London, UK
for contributions to thin film transistor technologies

M. Hashem Nehrir
Montana State University
Bozeman, MT, USA
for contributions to alternative energy power generation

David Thomas Neilson
Bell Laboratories, Alcatel-Lucent
Holmdel, NJ, USA
for contributions to optical switching technologies for telecommunication networks

Kwok Kwok Ng
Semiconductor Research Corp (SRC)
Durham, NC, USA
for contributions to the optimization of intrinsic parasitics in metal-oxide semiconductor field-effect transistor design

Willie W. Ng
HRL Laboratories LLC
Malibu, CA, USA
for the application of photonic technologies to microwave antenna systems and ultra-wideband signal processing

Aria Nosratinia
University of Texas at Dallas
Richardson, TX, USA
for contributions to multimedia and wireless communications

Robert Nowak
University of Wisconsin
Madison, WI, USA
for contributions to statistical signal and image processing

Kevin D. O'Grady
The University of York
York, UK
for contributions to magnetic measurement techniques applied to information storage systems

Fumio Okano
NHK (Japan Broadcasting Corporation)
Tokyo, Japan
for contributions to high resolution three-dimensional television

Yasuhisa Omura
Kansai University
Suita, Osaka, Japan
for contributions of silicon on insulator devices technology, analysis, and modeling

Umit Ozguner
Ohio State University
Columbus, OH, USA
for contributions to the development of intelligent autonomous vehicles

Mario J. Paniccia
Intel
Santa Clara, CA, USA
for contributions to silicon photonic integrated circuits

Giuseppe Parise
University of Rome "La Sapienza"
Rome, Italy
for contributions to workplace safety through analysis of power system switching procedures

Lynne E. Parker
University of Tennessee
Knoxville, TN, USA
for contributions to distributed and heterogeneous multi-robot systems

Gary L. Patton
IBM
Hopewell Junction, NY, USA
for contributions to silicon germanium heterojunction bipolar transistors

Ronald John Patton
Hull University
Hull, East Yorkshire, UK
for contributions to robust fault diagnosis and fault-tolerant control

Nicholas G. Paulter
National Institute of Standards and Technology
Gaithersburg, MD, USA
for contributions to ultra-high speed waveform measurements

Mario Veiga Pereira
PSR
Rio de Janeiro, Brazil
for application of multi-stage stochastic optimization to power system operation and planning

Harry G. Perros
North Carolina State University
Raleigh, NC, USA
for contributions to performance evaluation modeling of computer networks

Larry Peterson
Princeton University
Princeton, NJ, USA
for contributions to the design, implementation, and deployment of networked software systems

Jonathon P. Phillips
National Institute of Standards and Technology
Gaithersburg, MD, USA
for contributions to the evolution of face recognition techniques

Roberto Pieraccini
SpeechCycle Inc.
New York, NY, USA
for contributions to statistical natural language understanding and spoken dialog management and learning

Keshav Pingali
University of Texas at Austin
Austin, TX, USA
for contributions to compilers and parallel computing

Pouyan Pourbeik
Electric Power Research Institute
Durham, NC, USA
for contributions to modeling of power generation and transmission equipment

Rich Stephen Prodan
Broadcom Corporation
Irvine, CA, USA
for leadership in the development of high definition television and broadband networks

Chunming Qiao
University at Buffalo, SUNY
Buffalo, NY, USA
for contributions to optical and wireless network architectures and protocols

Zihua Qu
University of Central Florida
Orlando, FL, USA
for contributions to control for nonlinear uncertain systems

Long Quan
The Hong Kong University of Science and Technology
Clear Water Bay, Kowloon, Hong Kong
for contributions to three-dimensional computer vision

Farhad Rachidi
Swiss Federal Institute of Technology
Lausanne, Switzerland
for contributions to electromagnetic modeling of lightning and coupling to transmission lines

Anand Raghunathan
Purdue University
West Lafayette, IN, USA
for contributions to the design of low-power and secure systems on chip

Alevoor Ravishankar Rao
IBM Thomas / J. Watson Research Center
Yorktown Heights, NY, USA
for contributions to understanding of image texture and applications to machine vision solutions

Ramesh Rao
University of California San Diego
La Jolla, CA, USA
for leadership in wireless communications

Al Narasimha Reddy
Texas A&M University
College Station, TX, USA
for contributions to multimedia storage and network support

Fan Ren
University of Florida
Gainesville, FL, USA
for contributions to processing technologies for compound semiconductor devices

Douglas A. Reynolds
MIT Lincoln Laboratory
Lexington, MA, USA
for contributions to Gaussian-mixture-model techniques for automatic speaker recognition

Giuseppe Riccardi
University of Trento, Italy
Povo-Trento, Italy
for contributions to algorithms for automatic speech recognition and spoken language processing

Douglas James Riley
Northrop Grumman Corporation
Cedar Crest, NM, USA
for contributions to time-domain techniques in computational electromagnetics

Ahmadreza Rofougaran
Broadcom Corporation
Irvine, CA, USA
for contributions to single chip system integration of radio frequency complementary metal-oxide semiconductor technology

John Ashley Rogers
University of Illinois at Urbana/Champaign
Urbana, IL, USA
for contributions to nanomaterials and nanofabrication techniques for electronic and photonic devices

Maev Grigoryevich Roman
University of Windsor
Windsor, ON, Canada
for contributions to high-resolution imaging, acoustic microscopy, and advanced material characterization

Thomas Roser
Brookhaven National Laboratory
Upton, NY, USA
for contributions to the design of magnets in particle accelerator applications

Richard C. Ruby
Avago Technologies
San Jose, CA, USA
for contributions to film bulk acoustic resonators, filters, and duplexers for mobile phones

Yong Rui
Microsoft China Research and Development
Beijing, China
for contributions to image and video analysis, indexing and retrieval

Daniela Lucia Rus
Massachusetts Institute of Technology
Cambridge, MA, USA
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Université Laval
Quebec, QC, Canada
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Seth Robert Sanders
University of California, Berkeley
Berkeley, CA, USA
for contributions to integrated passive component technology and digital control of power electronic systems

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Purdue University
West Lafayette, IN, USA
for contributions to metal/semiconductor interfaces and heterogeneous integration

Jafar Saniie
Illinois Institute of Technology
Chicago, IL, USA
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Maria Sabrina Sarto
Sapienza University of Rome
Rome, Italy
for contributions to advanced materials in electromagnetic compatibility applications

Motoyuki Sato
CNEAS, Tohoku University, Kawauchi Campus
Sendai, Miyagi-ken, Japan
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University of California, Los Angeles (UCLA)
Los Angeles, CA, USA
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Christian Schlegel
University of Alberta
Edmonton, Alberta, Canada
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Robert Schober
University of British Columbia (UBC)
Vancouver, BC, Canada
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Dan Schonfeld
University of Illinois at Chicago
Glenview, IL, USA
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Michael L. Scott
University of Rochester
Rochester, NY, USA
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Abdel A. Sebak
Concordia University
Montreal, QC, Canada
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Timoleon K. Sellis
National Technical University of Athens
Zografou, Attica, Greece
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Université de Liège
Liège Sart-Tilman, Belgium
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Vladimir M. Shalaev
Purdue University
West Lafayette, IN, USA
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University of Maryland
College Park, MD, USA
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Texas A&M University
College Station, TX, USA
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University of Illinois, Urbana-Champaign
Urbana, IL, USA
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Indian Institute of Technology, Delhi
New Delhi, New Delhi, India
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The LNM IIT Jaipur
Jaipur, Rajasthan, India
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Thomas Piotr Skotnicki
STMicroelectronics
Crolles, France
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Malcolm Graham Slaney
Yahoo! Research and CCRMA
Palo Alto, CA, USA
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Asim Smailagic
Carnegie Mellon University
Pittsburgh, PA, USA
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John E. Snyder
Cardiff University
Cardiff, UK

for contributions to synthesis and characterization of magnetic bulk and thin film materials

Frank K. Soong
Microsoft Research
Beijing, China

for contributions to speech processing

Aravind Srinivasan
University of Maryland
College Park, MD, USA

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Peter A. Steenkiste
Carnegie Mellon University
Pittsburgh, PA, USA

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Milica Stojanovic
Northeastern University
Boston, MA, USA

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Grant H. Stokes
MIT Lincoln Laboratory
Lexington, MA, USA

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Heinrich Josef Stuttgen
NEC Europe Ltd.
Heidelberg,, Germany

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Wei Su
US Army Communication-Electronics RD&E Center
Englishtown, NJ, USA

for leadership in military communications and electronic warfare technology

Shun-Feng Su
National Taiwan University of Science and Technology
Taipei, Taiwan
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Madhu Sudan
Massachusetts Institute of Technology
Cambridge, MA, USA
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Universitat Autònoma de Barcelona
Bellaterra, Barcelona, Spain
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University of Southampton
Southampton, Hants, UK
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Tokyo University of Science
Noda, Chiba-ken, Japan
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Giorgio Taricco
Politecnico di Torino
Turin, Italy
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Georgia Institute of Technology
Atlanta, GA, USA
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Panasonic Corporation
Nagaokakyo, Kyoto, Japan
for contribution to the development of charge-coupled device image sensors

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Chinese Academy of Sciences
Beijing, China
for contributions to medical image processing, pattern recognition, and molecular imaging

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University of Buenos Aires
Buenos Aires, Argentina
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Rensselaer Polytechnic Institute (RPI)
Troy, NY, USA
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Montana Tech of the University of Montana
Butte, MT, USA
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Nian-Feng Tzeng
University of Louisiana at Lafayette
Lafayette, LA, USA
for contributions to parallel computer systems and scalable routers

Nitin H. Vaidya
University of Illinois at Urbana-Champaign
Urbana, IL, USA
for contributions to wireless networking protocols and mobile communications

Maria Ines Valla
National University of La Plata
La Plata, Buenos Aires, Argentina
for contributions to non-linear control of electric drives

Mahesh Kumar Varanasi
University of Colorado
Boulder, CO, USA
for contributions to multi-user and wireless communication theory

Amitabh Varshney
University of Maryland
College Park, MD, USA
for contributions to scientific visualization and computer graphics

Giuseppe Vecchi
Politecnico di Torino
Torino, Italy
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The University of Melbourne
Parkville, Victoria, Australia
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John Fenwick Vesecky
University of California at Santa Cruz
Santa Cruz, CA, USA
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University of Maine
Orono, ME, USA
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Carnegie Mellon University
Pittsburgh, PA, USA
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Plano, TX, USA
for contributions to speech coding and synthesis and objective speech quality evaluation

Jeffrey Mark Voas
Science Applications International Corporation
Herndon, VA, USA
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General Motors Research and Development Center
Warren, MI, USA
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Virginia Tech
Blacksburg, VA, USA
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Yi-Min Wang
Microsoft Research
Redmond, WA, USA
for contributions to dependable computing and web security

Charles E. Weitzel
Mesa, AZ, USA
for contributions to compound semiconductor technology and microwave devices

Craig McKenzie Wellman
Wellman Electrical Engineering
Newark, DE, USA
for development of methods for calculating incident energy from electrical arc-flash sources

Changyun Wen
Nanyang Technological University
Singapore, Singapore
for contributions to adaptive control, switching and impulsive systems

Robert Vernon White
Vu1- PSMA(Power Source Mfg. Association)
Highlands Ranch, CO, USA
for contributions to digital power management in power systems for computing and telecommunications equipment

Daniel P. Wilt
Johns Hopkins Applied Physics Laboratory
Laurel, MD, USA
for contributions to semiconductor laser technology for high-capacity optical fiber communications systems

Steven M. Wright
Texas A&M University
College Station, TX, USA
for contributions to parallel magnetic resonance imaging methods and systems

Ruey-Beei Wu
National Taiwan University
Taipei, Taiwan
for contributions to coplanar waveguide passive components

Xiaohua Xia
University of Pretoria
Pretoria, South Africa
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Chengshan Xiao
Missouri University of Science and Technology
Rolla, MO, USA
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Brown University
Providence, RI, USA
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Kanazawa University
Kanazawa, Japan
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University of Rhode Island
Kingston, RI, USA
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Montage Technology Co. Ltd.
Shanghai, China
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Kiyotoshi Yasumoto
Kyushu University
Fukuoka, Fukuoka, Kyushu, Japan
for contributions to electromagnetic wave scattering and wave guiding

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Kitasato University
Sagamihara, Kanagawa, Japan
for contributions to semiconductor lasers and integrated optical devices

Ram Zamir
Tel-Aviv University
Tel Aviv, Israel
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Valery U. Zavorotny
NOAA/Earth System Research Laboratory
Boulder, CO, USA
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George E. Zentai
Varian Medical Systems
Mountain View, CA, USA
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Yue Ping Zhang
Nanyang Technological University
Singapore, Singapore
for contributions to integrated antennas and subsurface radio

Boming Zhang
Tsinghua University
Beijing, China

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Jian Hui Zhao
Rutgers University
Piscataway, NJ, USA

for contributions to vertical silicon carbide devices and process technologies

Feng Zhao
Microsoft Research
Issaquah, WA, USA

for contributions to networked embedded computing and sensor networks

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Microsoft Corporation
Beijing, China

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University of Missouri
Columbia, MO, USA

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Alameda, CA, USA

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MediaTek Wireless, Inc.
Woburn, MA, USA

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