

2016 Newly Elevated Fellows

David Abramson
University of Queensland
Queensland, Australia

for contributions to software tools for high performance, parallel, and distributed computing

Vassilios Agelidis
University of New South Wales
Sydney, NSW, Australia

for contributions to power electronics, renewable energy conversion and integration with electricity grid

Kiyoharu Aizawa
University of Tokyo
Tokyo, Japan

for contributions to model-based coding and multimedia lifelogging

Ozgur B. Akan
Koc University
Istanbul, Turkey

for contributions to wireless sensor networks

Alin Albu-Schaeffer
Technical University Munich
Oberpfaffenhofen-Wessling, Germany

for contributions to compliant and lightweight robots

2016 Newly Elevated Fellows

Massimo Alioto
National University of Singapore
Singapore, Singapore

for contributions to energy-efficient VLSI circuits

Alexandre P. Alves da Silva
GE Global Research
Rio de Janeiro, Brazil

for contributions to dynamic security assessment and load forecasting in power systems

Lorenzo Alvisi
University of Texas at Austin
Austin, TX, USA

for contributions to reliable distributed systems

Massoud Amin
University of Minnesota
Minneapolis, MN, USA

for leadership in smart grids and security of critical infrastructures

Plamen Angelov
Lancaster University
Lancaster, United Kingdom

for contributions to neuro-fuzzy and autonomous learning systems

Tatsuo Arai
Osaka University
Osaka, Japan

for contributions to micro manipulators and sensors, and applications to cellular biology

2016 Newly Elevated Fellows

Huseyin Arslan
University of South Florida
Tampa, FL, USA

for contributions to spectrum sensing in cognitive radio networks

David Atienza
EPFL- École polytechnique fédérale de Lausanne
Lausanne, Switzerland

for contributions to design methods and tools for multiprocessor systems on chip

Ronald Azuma
Intel Laboratories
Santa Clara, CA, USA

for contributions to augmented reality

Fan Bai
General Motors Global R&D
Detroit, MI, USA

for contributions to vehicular networking and mobility modeling

Christopher Baker
Ohio State University
Columbus, OH, USA

for contributions to cognitive sensing in passive and diversity radars

William Baldygo
U.S. Air Force Research Laboratory
Dayton, OH, USA

for leadership in signal processing for radar systems

2016 Newly Elevated Fellows

Sanghamitra Bandyopadhyay
Indian Statistical Institute
West Bengal, India

for contributions to genetic algorithm based classification and clustering techniques

Edward Baranoski
Intelligence Advanced Research,
Projects Activity (IARPA)
McLean, VA, USA

for leadership in knowledge-aided radar systems for indoor environments

Kenneth Barner
University of Delaware
Newark, DE, USA

for contributions in nonlinear signal processing

Siegfried Bauer
Johannes Kepler-University Linz
Linz, Austria

for contributions to the understanding and application of electroactive polymer dielectrics

B. Wayne Bequette
Rensselaer Poly Institute
Troy, NY, USA

for contributions to design and control of chemical and biomedical systems

2016 Newly Elevated Fellows

Karl Berggren
Massachusetts Institute of Technology
Cambridge, MA, USA

for contributions to nanofabrication and nanomanufacturing in the sub-10 nm regime

Shannon Blunt
University of Kansas
Lawrence, KS, USA

for contributions to radar waveform diversity and design

Kwabena Boahen
Stanford University
Stanford, CA, USA

for contributions to system design for neuromorphic chip

Francesco Borrelli
University of California - Berkeley
Berkeley, CA, USA

for contributions to the theory and application of model predictive control

Laura Bottomley
North Carolina State University
Raleigh, NC, USA

for leadership in increasing student interest in STEM education

Brian Brandt
Maxim Integrated Products
San Jose, CA, USA

for leadership in data converters and mixed-signal circuits

2016 Newly Elevated Fellows

Michael Branicky
University of Kansas
Lawrence, KS, USA

for contributions to switched and hybrid control systems

Henning Braunsch
Intel Corporation
Phoenix, AZ, USA

for contributions to high-bandwidth microprocessor packaging

David Brooks
Harvard University
Cambridge, MA, USA

for contributions to power-efficient and resilient computer system design

Juergen Brugger
EPFL - École polytechnique fédérale de Lausanne
Lausanne, Switzerland

for contributions to micro and nano manufacturing technology

Tracy Camp
Colorado School of Mines
Golden, CO, USA

for contributions to wireless networking

Eugenio Cantatore
Eindhoven University of Technology
Eindhoven, Netherlands

for contributions to the design of circuits with organic thin film transistors

2016 Newly Elevated Fellows

Jinde Cao
Southeast University
Nanjing, China

for contributions to the analysis of neural networks

Bruce Carlsten
Los Alamos National Laboratory
Los Alamos, NM, USA

for contributions to high-brightness electron beams and vacuum electron devices

Sandro Carrara
Swiss Federal Institute of Technology
Lausanne, Switzerland

for contributions to design of nanoscale biological CMOS sensors

Umit Catalyurek
Ohio State University
Columbus, OH, USA

for contributions to combinatorial scientific computing and parallel computing

Yiu Tong Chan
Royal Military College
Kingston, ON, Canada

for development of efficient localization and tracking algorithms

Tony Chan
Hong Kong University of Science & Technology
Clearwater Bay, Hong Kong, China

for contributions to computational models and algorithms for image processing

2016 Newly Elevated Fellows

Chorng-Ping Chang
Applied Materials, Inc.
Santa Clara, CA, USA

for contributions to replacement gate and shallow trench isolation for CMOS technology

Jie Chen
University of Alberta, Canada
Edmonton, AB, Canada

for contributions to low-power and biomedical ultrasound circuits and devices

Xilin Chen
Institute of Computing Technology
Beijing, China

for contributions to machine vision for facial image analysis and sign language recognition

Chun-Hung Chen
George Mason University
Fairfax, VA, USA

for contributions to simulation-based optimization of automation systems

Shigang Chen
University of Florida
Gainesville, FL, USA

for contributions to quality of service provisioning and policy-based security management in computer networks

2016 Newly Elevated Fellows

Degang Chen
Iowa State University
Ames, IA, USA

for contributions to testing of analog and mixed-signal integrated circuits

Shu-Ching Chen
Florida International University
Miami, FL, USA

for contributions to multimedia data and disaster information management

Gyu Hyeong Cho
KAIST- Korea Advanced Institute of Science and Technology
Daejeon, Korea

for contributions to power management circuit design

Henry Chung
City University of Hong Kong
Kowloon Tong, Hong Kong, China

for contributions to power electronic converters for lighting

C. Y. Chung
University of Saskatchewan
Saskatoon, SK, Canada

for contributions to power system stability and control

Wan Kyun Chung
Pohang University of Science & Technology
Pohang, Korea

for developments in robust control theory for mechanical systems

2016 Newly Elevated Fellows

Terry Cisco
Consultant
Glendale, CA, USA

for leadership in the development of airborne active array transmit and receive module technologies

George Clark
Alabama Power Company
Birmingham, AL, USA

for contributions to distribution automation for power

Armando Colombo
Schneider Electric Automation GmbH
Bayern, Germany

for contributions to industrial cyber-physical systems

Ian Craddock
University of Bristol
Bristol, United Kingdom

for leadership in imaging for healthcare applications

Lorrie Cranor
Carnegie Mellon University
Pittsburgh, PA, USA

for contributions to privacy engineering

Luiz Da Silva
Trinity College Dublin
Dublin, Ireland

for contributions to cognitive networks and resource management for wireless networks

2016 Newly Elevated Fellows

Gilles Dambrine
IEMN - Institute of Electronic, Microelectronic
and Nanotechnology
Lille, France

for contributions to the modeling of small signal and noise characteristics in nanoscale high-frequency devices

Timothy Davis
Texas A&M University
College Station, TX, USA

for contributions to sparse matrix algorithms and software

Leila De Floriani
University of Genova
Genova, Italy

for contributions to geometric modeling and visualization

Carlos De Wit
INRIA Grenoble
Rhone-Alpes, France

for contributions to modeling and control of mechanical, robotic, and networked systems

Robert Deng
Singapore Management University
Singapore, Singapore

for contributions to security algorithms, protocols and systems

2016 Newly Elevated Fellows

Yixin Diao
IBM T. J. Watson Research Center
Yorktown Heights, NY, USA

for contributions to modeling, optimization, and control of computing systems

Maria-Gabriella Di Benedetto
Sapienza University of Rome
Rome, Italy

for contributions to impulse-radio ultra wideband and cognitive networks for wireless communications

Warren Dixon
University of Florida
Gainesville, FL, USA

for contributions to adaptive control of uncertain nonlinear systems

Ananth Dodabalapur
Univeristy of Texas at Austin
Austin, TX, USA

for contributions to organic electronic devices and circuits

David Doman
USAF Air Force Research Laboratory
Rome, NY, USA

for contributions to flight dynamics and control

Ravindranath Droopad
Texas State University
San Marcos, TX, USA

for contributions to epitaxial growth of advanced materials for RF and CMOS applications

2016 Newly Elevated Fellows

Frederic Dufaux
Telecom ParisTech
Paris, France

for contributions to visual information processing and coding

Schahram Dustdar
Vienna University of Technology
Vienna, Austria

for contributions to elastic computing for cloud applications

Michael Eineder
TUM - Technische Universität München
München, Germany

for contributions to synthetic aperture radar image processing for geodesy

Georges El Fakhri
Massachusetts General Hospital/
Harvard Medical School
Boston, MA, USA

for contributions to biological imaging

Danilo Erricolo
University of Illinois
Chicago, IL, USA

for contributions to electromagnetic scattering and associated computational algorithms

Karu Esselle
Macquarie University
Sydney, NSW, Australia

for contributions to resonance-based antennas

2016 Newly Elevated Fellows

Giuseppe Fabrizio
Defence Science & Technology Group
Edinburgh, SA, Australia

for contributions to adaptive array signal processing in over-the-horizon radar systems

Jun Fan
Missouri University of Science & Technology
Rolla, MO, USA

for contributions to power delivery networks in printed circuit designs

Mukta Farooq
IBM Corporation
Hopewell Junction, NY, USA

for contributions to 3D integration and interconnect technology

Patrick Fay
University of Notre Dame
Notre Dame, IN, USA

for contributions to compound semiconductor tunneling and high-speed device technologies

Faramarz Fekri
Georgia Institute of Technology
Atlanta, GA, USA

for contributions to coding theory and its applications

Leonard Feldman
Rutgers University
Piscataway, NJ, USA

for contributions to semiconductor-dielectric interfaces for MOS technologies

2016 Newly Elevated Fellows

Claudia Felser
Max-Planck-Institut für CPfS
Gesellschaft, München, Germany

for contributions to the design and chemical synthesis of new materials with multi-functional properties

Gabor Fichtinger
Queens University
Kingston, ON, Canada

for contributions to medical robotics and computer-assisted intervention

Dinei Florencio
Microsoft Research
Redmond, WA, USA

for contributions to statistical and signal processing approaches to adversarial and security problems

Thor Fossen
Norwegian University of Science & Technology
Trondheim, Norway

for contributions to modelling and controlling of marine crafts

F. Stuart Foster
Sunnybrook & Women's College-
Health Sciences Centre
Toronto, ON, Canada

for contributions to the development and commercialization of ultrasound technology

2016 Newly Elevated Fellows

Christina Fragouli
University of California - Los Angeles
Los Angeles, CA, USA

for contributions to network coding

Michael Franz
University of California - Irvine
Irvine, CA, USA

for contributions to just-in-time compilation and to computer security through compiler-generated software diversity

Patrick French
TU Delft- Delft University of Technology
Delft, Netherlands

for contributions to micro-electromechanical devices and systems

Jessica Fridrich
Binghamton University- SUNY
Binghamton, NY, USA

for contributions to digital media forensics, steganography, and steganalysis

Masayuki Fujita
Tokyo Institute of Technology
Tokyo, Japan

for contributions to passivity-based control in robotics and robust control

2016 Newly Elevated Fellows

Vincenzo Galdi
University of Sannio
Benevento, Italy

for contributions to modeling the interaction between electromagnetic waves and complex materials

Alan Gatherer
Huawei
Plano, TX, USA

for contributions to systems-on-chip for 3G and 4G cellular systems

Maryellen Giger
University of Chicago - Radiology
Chicago, IL, USA

for contributions to computer-aided biomedical imaging and diagnosis

Fernando Gomide
University of Campinas
Sao Paulo, Brazil

for contributions to fuzzy systems

Tibor Grasser
Technische Universität Wien : TU Wien
Vienna, Austria

for contributions to modeling the reliability of semiconductor devices

Anthony Grbic
University of Michigan
Ann Arbor, MI, USA

for contributions to the theory and design of electromagnetic metamaterials

2016 Newly Elevated Fellows

Anthony Guiseppi-Elie
Clemson University
Clemson, SC, USA

for contributions to organic electronic materials in biotechnology and biomedicine

Gerhard Hancke
University of Pretoria
Pretoria, South Africa

for contributions to wireless sensor networks

Edwin Hancock
University of York
N. Yorkshire, United Kingdom

for contributions to pattern recognition and computer vision

Alan Hanjalic
TU Delft- Delft University of Technology
Delft, Netherlands

for contributions to multimedia information retrieval

Tomohiro Hase
Ryukoku University
Shiga, Japan

for contributions to embedded software for real-time applications

Dimitrios Hatzinakos
University of Toronto
Toronto, ON, Canada

for contributions to signal processing techniques for communications, multimedia and biometrics

2016 Newly Elevated Fellows

Scott Hauck
University of Washington
Seattle, WA, USA

for contributions to Field-Programmable Gate Array based systems

Aaron Hawkins
Brigham Young University
Provo, UT, USA

for contributions to optofluidics

George Hayhoe
Mercer University
Macon, GA, USA

for contributions to professional and technical communication

Larry Heck
Google
Mountain View, CA, USA

for leadership in application of machine learning to spoken and text language processing

Maurice Heemels
Eindhoven University of Technology
Eindhoven, Netherlands

for contributions to analysis and design of hybrid, networked, and event-triggered systems

2016 Newly Elevated Fellows

Gernot Heiser
University of New South Wales
Sydney, NSW, Australia

for contributions to security and safety of operating systems

Michael Henderson
ISO New England
Springfield, MA, USA

for contributions to the application of high-voltage DC and flexible AC transmission systems

Mark Hersam
Northwestern University
Evanston, IL, USA

for contributions to carbon nanomaterial processing methods and devices

John Heywood
University of Dublin
Dublin, Ireland

for contributions to engineering education research

Mark Horenstein
Boston University
Boston, MA, USA

for contributions to the modeling and measurements of electrostatics in industrial processes

2016 Newly Elevated Fellows

Tzyy-Sheng Horng
Nat'l Sun Yat-Sen University
Kaohsiung, Taiwan

for contributions to system-in-package modeling and design

Yu Hu
Purdue University
West Lafayette, IN, USA

for contributions to power modeling and energy management of mobile devices

Xiaobo Hu
University of Notre Dame
Notre Dame, IN, USA

for contributions to resource management for embedded systems

Jiang Hu
Texas A&M University
College Station, TX, USA

for contributions to gate, interconnect, and clock network optimization in VLSI circuits

Xian-Sheng Hua
Alibaba Group
Hangzhou, China

for contributions to multimedia content analysis and image search

Tony Jun Huang
Penn State University
University Park, PA, USA

for contributions to acousto-opto-fluidics, and nanoelectromechanical systems

2016 Newly Elevated Fellows

Jianwei Huang
Chinese University of Hong Kong
Shatin, NT, Hong Kong

for contributions to resource allocation in wireless systems

Qiang Huang
Beijing Institute of Technology
Beijing, China

for contributions to the design and control of biped robots

Qing-An Huang
Southeast University
Nanjing, China

for contributions to modeling and packaging of microsensors and microactuators

Jiwu Huang
Shenzhen University
Shenzhen, China

for contributions to multimedia data hiding and forensics

Adrian Ionescu
EPFL - École polytechnique fédérale de Lausanne
Lausanne, Switzerland

for contributions to the development of novel devices for low power applications

Mohammad Islam
Halla Mechatronics
Bay City, MI, USA

for development of electromagnetic sensors and actuators for automotive applications

2016 Newly Elevated Fellows

Rabih Jabr
American University of Beirut
Beirut, Lebanon

for application of robust optimization to power systems

Yungtaek Jang
Delta Products Corporation
Fremont, CA, USA

for contributions to efficiency optimization of ac-dc power supplies

Dan Jiao
Purdue University
West Lafayette, IN, USA

for contributions to computational electromagnetics

Yaochu Jin
University of Surrey
Surrey, United Kingdom

for contributions to evolutionary optimization

Alvin Joseph
IBM Thomas J. Watson Research Center
Yorktown Heights, NY, USA

for contributions to silicon-germanium bipolar-CMOS and RF silicon-on-insulator technology

2016 Newly Elevated Fellows

Mahmut Kandemir
Penn State University
University Park, PA, USA

for contributions to compiler support for performance and energy optimization of computer architectures

Lance Kaplan
Army Research Laboratory
Adelphi, MD, USA

for contributions to signal processing and information fusion for situational awareness

Sheldon Kennedy
Niagara Transformer Corporation
Cheektowaga, NY, USA

for leadership in the technology and standards for rectifier, inverter and harmonic-mitigating transformers

Nam Sung Kim
University of Wisconsin-Madison
Madison, WI, USA

for contribution to circuits and architectures for power-efficient microprocessors

Joungho Kim
KAIST- Korea Advanced Institute of
Science and Technology
Daejeon, Korea

for contributions to modeling signal and power integrity in 3D integrated circuits

2016 Newly Elevated Fellows

Katsumi Kishino
Sophia University
Tokyo, Japan

for contributions to III-V light emitter technology

Hitoshi Kiya
Tokyo Metropolitan University
Tokyo, Japan

for contributions to filter structure, data hiding, and multimedia security

Stuart Kleinfelder
University of California - Irvine
Irvine, CA, USA

for contributions to sensors and instrumentation for high-speed imaging applications

Michael Kneissl
Technische Universitaet Berlin
Berlin, Germany

for contributions to the development of wide bandgap semiconductor laser diodes and ultraviolet LEDs

Vladimir Kolobov
CFD Research Corporation
Huntsville, AL, USA

for contributions to theory, simulation and software development for industrial plasma

Avinoam Kolodny
Technion - Israel Inst. of Technology
Technion City, Haifa, Israel

for contributions to VLSI design and automation tools

2016 Newly Elevated Fellows

Danica Kragic
Royal Institute of Technology
Stockholm, Sweden

for contributions to vision-based systems and robotic object manipulation

William Krupke
Lawrence Livermore National Laboratory
Livermore, CA, USA

for leadership in laser science and technology

Lawrence Kushner
BAE Systems, Inc.
Acton, MA, USA

for leadership in RF/microwave circuits for military and commercial applications

Akhlesh Lakhtakia
Pennsylvania State University
University Park, PA, USA

for contributions to isotropic chiral, bianisotropic materials, and metamaterials

Erik Larsson
Linköping University
Linköping, Sweden

for contributions to the technology of multi-antenna wireless communications

Mark Laubach
Broadcom Corporation
Irvine, CA, USA

for leadership in design and standardization of cable modems

2016 Newly Elevated Fellows

Eugene Lavretsky
The Boeing Company
Everett, WA, USA

for contributions to the development of adaptive and robust flight control technologies

Ta Sung Lee
National Chiao Tung University
Hsinchu, Taiwan

for leadership and contributions in communication systems and signal processing

Jong Ho Lee
Seoul National University
Seoul, Korea

for contributions to development and characterization of bulk multiple-gate field effect transistors

Inkyu Lee
Korea University
Seoul, Korea

for contributions to multiple antenna systems for wireless communications

Hui Lei
IBM T. J. Watson Research Center
Yorktown Heights, NY, USA

for contributions to scalable and dependable data access in distributed computing systems

2016 Newly Elevated Fellows

Charles Leiserson
MIT-Massachusetts Institute of Technology
Cambridge, MA, USA

for leadership in parallel and distributed computing

Peng Li
Texas A&M University
College Station, TX, USA

for contributions to the analysis and modeling of integrated circuits and systems

Shaoqian Li
University of Electronic Science &
Technology of China
Sichuan, China

for leadership in development of broadband wireless networks

Zhiwu Li
Xidian University
Xi'an, Shaanxi, China

for contributions to Petri nets and their applications to automated manufacturing systems

Tsong-Juu Liang
National Cheng Kung University
Tainan, Taiwan

for contributions to power conversion for lighting and sustainable energy

Weisi Lin
Nanyang Technical University
Singapore, Singapore

for contributions to perceptual modeling and processing of visual signals

2016 Newly Elevated Fellows

Xuemin Lin
University of New South Wales
Sydney, NSW, Australia

for contributions to algorithmic paradigms for database technology

Kai Liu
University of California- Davis
Davis, CA, USA

for contributions to the understanding of magnetotransport effects and magnetization reversal in nanostructures

Blake Lloyd
Iris Power Engineering
Mississauga, ON, Canada

for development of non-intrusive diagnostics for electrical motors and generators

Stefano Lonardi
University of California, Riverside
Riverside, CA, USA

for contributions to computational biology and data mining

Songwu Lu
University of California, Los Angeles
Los Angeles, CA, USA

for contributions to wireless and mobile networking and network security

Chenyang Lu
Washington University in St. Louis
Saint Louis, MO, USA

for contributions to adaptive real-time computing systems

2016 Newly Elevated Fellows

Shih-Lien Lu
Intel Corporation
Portland, OR, USA

for contributions to low-voltage microarchitecture and approximate computing

Victor Lubecke
University of Hawaii at Manoa
Honolulu, HI, USA

for leadership in the development of microwave transducers for biomedical application

Fa-Long Luo
Element CXI, Inc.
San Jose, CA, USA

for contributions to adaptive signal processing for hearing and multimedia applications

Jian-Guo Ma
Tianjin University
Tianjin, China

for leadership in microwave electronics and RFIC applications

Xiaoli Ma
Georgia Institute of Technology
Atlanta, GA, USA

for contributions to block transmissions over wireless fading channels

Souvik Mahapatra
IIT- Indian Institute of Technology Bombay
Mumbai, India

for contributions to CMOS transistor gate stack reliability

2016 Newly Elevated Fellows

Gabriele Manganaro
Analog Devices Inc.
Norwood, MA, USA

for leadership in the design of high-speed converters

Dimitris Manolakis
MIT Lincoln Laboratory
Lexington, MA, USA

for contributions to signal processing education, algorithms for adaptive filtering, and hyperspectral imaging

Jonathan Manton
University of Melbourne
Parkville, VIC, Australia

for contributions to geometric methods in signal processing and wireless communications

Joao Marques Silva
University College Dublin
Dublin, Ireland

for contributions to decision and optimization algorithms for propositional logic

Frank Marzano
Sapienza University of Rome
Rome, Italy

for contributions to microwave remote sensing in meteorology and volcanology

2016 Newly Elevated Fellows

Shinji Matsuo
NTT Device Technology Laboratories
Kanagawa, Japan

for contributions to heterogeneous integration of semiconductor lasers

Clyde Maughan
Maughan Engineering Consultants
Schenectady, NY, USA

for contributions to large generator insulation systems and generator failure mechanisms

Sudip Mazumder
University of Illinois at Chicago
Chicago, IL, USA

for contributions to analysis and control of power electronics systems

Nenad Medvidovic
University of Southern California
Los Angeles, CA, USA

for contributions to the architecture of complex software systems

Farid Melgani
University of Trento
Trento, Italy

for contributions to image analysis in remote sensing

2016 Newly Elevated Fellows

Ellis Meng
University of Southern California
Los Angeles, CA, USA

for contributions to biomedical microelectromechanical systems

Dimitri Metaxas
Rutgers University
Piscataway, NJ, USA

for contributions to computer vision, medical image analysis, and sparse learning methods

Risto Miikkulainen
University of Texas at Austin
Austin, TX, USA

for contributions to techniques and applications for neural and evolutionary computation

Federico Milano
University College Dublin
Dublin, Ireland

for contributions to power system modeling and simulation

Lamine Mili
Virginia Tech
Blacksburg, VA, USA

for contributions to robust state estimation for power systems

2016 Newly Elevated Fellows

Hlaing Minn
University of Texas at Dallas
Richardson, TX, USA

for contributions to synchronization and channel estimation in communication systems

Vishal Misra
Columbia University
New York, NY, USA

for contributions to network traffic modeling, congestion control and Internet economics

Daniele Mortari
Texas A&M University
College Station, TX, USA

for contributions to navigational aspects of space systems

David Moss
RMIT University
Melbourne, VIC, Australia

for contributions to all-optical signal processing chips and commercial products for fibre optic communications

Frank Mueller
North Carolina State University
Raleigh, NC, USA

for contributions to timing analysis of real-time systems

Annette Muetze
Graz University of Technology
Graz, Austria

for contributions to the analysis and mitigation of bearing currents in variable-speed drives

2016 Newly Elevated Fellows

Satoshi Nakamura
Nara Institute of Science and Technology
Nara, Japan

for contributions to speech recognition and speech-to-speech translation

Thyagarajan Nandagopal
National Science Foundation
Arlington, VA, USA

for contributions to wireless network optimization, RFID systems, and network architectures

Antonio Napolitano
University of Naples - Parthenope
Napoli, Italy

for contributions to the statistical theory of nonstationary signal processing

Robert Nelson
Siemens
Orlando, FL, USA

for contributions to flexible AC transmission system (FACTS) devices for wind power generation

Andrea Neto
TU Delft- Delft University of Technology
Delft, Netherlands

for contributions to dielectric lens antennas and wideband arrays

Branislav Notaros
Colorado State University
Fort Collins, CO, USA

for contributions to higher order methods in computational electromagnetics

2016 Newly Elevated Fellows

Richard Nute
Consultant
Bend, OR, USA

for contributions to safety engineering of electrical and electronic products

Claude Oestges
Universite Catholique de Louvain
Louvain-La-Neuve, Belgium

for contributions to channel characterization and modeling for multiple-input multiple-output wireless communications

Haruhiko Okumura
Toshiba
Tokyo, Japan

for contribution to image processing and display technologies

Peggy O'Neill
NASA - Goddard Space Flight Center
Greenbelt, MD, USA

for contributions to the remote sensing of soil moisture

Kenichi Osada
Hitachi LTD.
Tokyo, Japan

for contributions to reliable and low-power nanoscale SRAM

Pablo Parrilo
MIT - Massachusetts Institute of Technology
Cambridge, MA, USA

for contributions to semidefinite and sum-of-squares optimization

2016 Newly Elevated Fellows

Mahendra Patel
Electric Power Research Institute
Palo Alto, CA, USA

for contributions to synchrophasors standardization

Keith Paulsen
Thayer School of Engineering at Dartmouth
Hanover, NH, USA

for leadership in biomedical technologies in medical imaging for diagnosis and intervention

Joao Abel Pecas Lopes
INESC-Instituto de Engenharia de
Sistemas e Computadores, Tecnologia e Ciência
Porto, Portugal

for contributions to microgrids and the integration of wind generation

Fernando Perez-Gonzalez
University of Vigo
Vigo, Spain

for contributions to multimedia security

Luca Perregrini
University of Pavia
Pavia, Italy

for contributions to numerical techniques for electromagnetic modeling

Zhouyue Pi
Consultant
Allen, TX, USA

for leadership in millimeter wave communication technology

2016 Newly Elevated Fellows

William Plant
University of Washington
Seattle, WA, USA

for contributions to the modeling electromagnetic scattering from the sea surface and its application to microwave remote sensing

Ajay Poddar
Synergy Microwave Corporation
Paterson, NJ, USA

for contributions to microwave oscillators

Ting-Chung Poon
Virginia Tech
Blacksburg, VA, USA

for contributions to optical image processing and digital holography

Petar Popovski
Aalborg University
Aalborg, Denmark

for contributions to network coding and multiple access methods in wireless communications

Alexandros Potamianos
National Technical University of Athens
Athens, Greece

for contributions to human-centered speech and multimodal signal analysis

Domenico Prattichizzo
Universita di Siena
Siena, Italy

for contributions to haptics and multi-fingered robotic hands

2016 Newly Elevated Fellows

Calton Pu
Georgia Institute of Technology
Atlanta, GA, USA

for contributions to system software specialization, information security, and services computing

Min Qiu
Zhejiang University
Zhejiang, China

for contributions to nanophotonic devices

Wendi Rabiner Heinzelman
University of Rochester
Rochester, NY, USA

for contributions to algorithms, protocols, and architectures for wireless sensor and mobile networks

Stojan Radic
University of California, San Diego
La Jolla, CA, USA

for contributions to optical signal processing by leveraging optical fiber non-linearities

B. M. Azizur Rahman
City University London
London, United Kingdom

for contributions to the application of fully vectorial finite element methods to photonics design

Sreeranga Rajan
Fujitsu Laboratories of America
Sunnyvale, CA, USA

for contributions to scalable formal verification of software and hardware systems

2016 Newly Elevated Fellows

Rajeev Ram
MIT - Massachusetts Institute of Technology
Cambridge, MA, USA

for contributions to semiconductor lasers and integration of photonics with CMOS electronics

Sundeeep Rangan
NYU Polytechnic School of Engineering
Brooklyn, NY, USA

for contributions to orthogonal frequency division multiple access cellular communication systems

Gregory Raybon
Bell Labs
New Providence, NJ, USA

for contributions to high-speed optical communication systems

Leonard Register
University of Texas At Austin
Austin, TX, USA

for contributions to modeling of charge transport in nanoscale CMOS devices

Andreas Reigber
German Aerospace Center (DLR)
Wessling, Germany

for contributions to SAR tomography and airborne multi-band SAR

Kui Ren
State University of New York at Buffalo
Buffalo, NY, USA

for contributions to security and privacy in cloud computing and wireless networks

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Wei Ren
University of California- Riverside
Riverside, CA, USA

for contributions to distributed coordination and control of multi-agent systems

Stefan Ritt
Paul Scherrer Institute
Aargau, Switzerland

for the development of the Domino Ring Sampler series of chips

Pablo Rodriguez
Telefonica
Madrid, Spain

for contributions to the design and development of content distribution architectures in the Internet

Stergios Roumeliotis
University of Minnesota
Minneapolis, MN, USA

for contributions to visual-inertial navigation and cooperative localization

Chris Rowen
Cadence Design Systems
San Jose, CA, USA

for leadership in the development of microprocessors and reduced instruction set computers

Xinbo Ruan
Nanjing University of Aeronautics & Astronautics
Nanjing, China

for contributions to switching-mode power converter topologies and modulation strategies

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Imperial College
London, United Kingdom

for contributions to biomedical image computing

Daniel Sabin
Electrotek Concepts, Inc.
Beverly, MA, USA

for leadership in power quality database management and analysis software

David Sampson
University of Western Australia
Western Australia, Australia

for contributions to fiber-optic biophotonics and biomedical optical imaging

Jagannathan Sarangapani
University of Missouri
Rolla, MO, USA

for contributions to nonlinear discrete-time neural network adaptive control and applications

Lorenz Schmidt
University of Erlangen-Nuremberg, Germany
Erlangen, Germany

for contributions to millimeter-wave and terahertz imaging systems

Noel Schulz
Kansas State University
Manhattan, KS, USA

for leadership in advancing women in engineering and electric ship technologies

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Georgia Institute of Technology
Atlanta, GA, USA

for contributions to high-performance, real-time and virtualized computing systems

Ivan Selesnick
NYU - Polytechnic School of Engineering
Brooklyn, NY, USA

for contributions to wavelet and sparsity based signal processing

Subhabrata Sen
AT&T Labs Research
Bedminster, NJ, USA

for contributions to analysis of cross-layer interactions in cellular networks

Sudipta Sengupta
Microsoft Research
Redmond, WA, USA

for contributions to network design, routing and applications to Internet backbone, data centers, and peer-to-peer systems

Weisong Shi
Wayne State University
Detroit, MI, USA

for contributions to distributed systems and internet computing

Yuhui Shi
Xi'an Jiaotong - Liverpool University
Suzhou, China

for contributions to particle swarm optimization algorithms

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Thomas Silva
IST/INESC-ID
Lisboa, Portugal

for contributions to the understanding and applications of magnetization dynamics

Oswaldo Simeone
NJIT - New Jersey Institute of Technology
Newark, NJ, USA

for contributions to cooperative cellular systems and cognitive radio networks

Marcelo Simoes
Colorado School of Mines
Golden, CO, USA

for application of artificial intelligence in control of power electronics systems

Theodore Sizer
Bell Labs, Alcatel-Lucent
New Providence, NJ, USA

for leadership in wireless communications technology

Bruce Smith
Rochester Institute of Technology
Rochester, NY, USA

for contributions to semiconductor lithography

Jian Song
Tsinghua University
Beijing, China

for contributions to digital television broadcasting

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Matteo Sonza Reorda
Politecnico di Torino
Torino, Italy

for design of test algorithms for reliable circuits and system

Mehmet Soyuer
IBM Thomas J. Watson Research Center
Yorktown Heights, NY, USA

for contributions to the design of high-frequency integrated circuits for clocking and communications

Giovanni Spagnuolo
University of Salerno
Salerno, Italy

for contributions to control of photovoltaic systems

Thomas Stuetzle
Universite Libre de Bruxelles (ULB)
Brussels, Belgium

for contributions to the design and engineering of heuristic optimization algorithms

Il Hong Suh
Hanyang University
Seoul, South Korea

for contributions to the design and control of redundant and multiple-arm robot systems

Sun Sumei
Institute for Infocomm Research
Singapore, Singapore

for leadership in design and standardization of wireless communication systems

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Toru Tanzawa
Micron Technology, Inc. - Japan
Tokyo, Japan

for contributions to integrated high-voltage circuits

Vladimir Terzija
University of Manchester
Manchester, United Kingdom

for contributions to power systems protection

Diane Thiede Rover
Iowa State University
Ames, IA, USA

for contributions to active learning methods in engineering education

John Thompson
University of Edinburgh
Edinburgh, United Kingdom

for contributions to multiple antenna and multi-hop wireless communications

Qi Tian
University of Texas at San Antonio
San Antonio, TX, USA

for contributions to multimedia information retrieval

Akira Toriumi
University of Tokyo
Tokyo, Japan

for contributions to device physics and materials engineering for advanced CMOS technology

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Sennur Ulukus
University of Maryland
College Park, MD, USA

for contributions to characterizing performance limits of wireless networks

Ben U Seng Pan
Synopsys Macau Limited
Macau, Macao

for leadership in the analog circuit design

K. Venugopal
University Visvesvaraya College of Engineering - Bangalore
Bangalore, India

for contributions to computer science and electrical engineering education

Silverio Visacro
Universidade Federal de Minas Gerais: UFMG
Belo Horizonte, Brazil

for contributions to lightning protection

Martin Vossiek
University of Erlangen-Nuremberg
Erlangen, Germany

for contributions to the design of wireless and radar positioning systems

Sarma Bala Vrudhula
Arizona State University
Tempe, AZ, USA

for contributions to low-power and energy-efficient design of digital circuits and systems

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Bernhard Walke
RWTH Aachen University
Aachen, Germany

for contributions to packet switching and relaying in cellular mobile system

Pengjun Wan
Illinois Institute of Technology
Chicago, IL, USA

for contributions to scheduling and resource allocation in wireless networks

Cliff Wang
US Army Research Office
Durham, NC, USA

for leadership in trusted computing and communication systems

Jia Wang
AT&T Labs Research
Bedminster, NJ, USA

for contributions to measurement and management of large operational networks

Yue Wang
Virginia Polytechnic Institute & State University
Blacksburg, VA, USA

for contributions to genomic signal analytics and image-based tissue characterization

Zhengdao Wang
Iowa State University
Ames, IA, USA

for contributions to multicarrier communications and performance analysis of wireless systems

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Zhong Feng Wang
Broadcom Corporation
Irvine, CA, USA

for contributions to VLSI design and implementation of forward error correction coding

David Wolpert
Santa Fe Institute
Santa Fe, NM, USA

for contributions to optimization, machine learning, distributed control, and game theory

Vincent Wong
University of British Columbia
Vancouver, BC, Canada

for contributions to mobility management in wireless networks and demand side management in smart grid

Kaikit Wong
University College London
London, United Kingdom

for contributions to multiuser communication systems

Jieh Wu
National Chiao-Tung University
Hsin-Chu, Taiwan

for contributions to design and calibration of high-performance data converters

Ernest Wu
IBM Microelectronics- Avent, Inc.
Burlington, VT, USA

for contributions to gate oxide reliability of CMOS devices

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Liang-Liang Xie
University of Waterloo
Waterloo, ON, Canada

for contributions to fundamental limits of feedback control systems and wireless networks

Chenyang Xu
Siemens Technology-To-Business Center
Berkeley, CA, USA

for contributions to medical imaging and image-guided interventions

Shugong Xu
Intel Labs Research
Santa Clara, CA, USA

for contributions to the improvement of wireless networks efficiency

Chengzhong Xu
Wayne State University
Detroit, MI, USA

for leadership in resource management for parallel and distributed systems

Li Xu
Old Dominion University
Norfolk, VA, USA

for contributions to theory and applications of enterprise information systems

Lie Liang Yang
University of Southampton
Southampton, United Kingdom

for contributions to multicarrier communications and wireless transceivers

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Mark Yeary
University of Oklahoma
Norman, OK, USA

for contributions to radar systems for meteorology

Kiat-Seng Yeo
Singapore University of Technology & Design
Singapore, Singapore

for contributions to low-power integrated circuit design

Jinhong Yuan
University of New South Wales
Sydney, NSW, Australia

for contributions to multi-antenna wireless communication technologies

Luca Zaccarian
University of Trento
Trento, Italy

for contributions to the development and application of nonlinear and hybrid control systems

Daniel Zeng
University of Arizona
and CAS Institute of Automation
Tucson, AZ, USA

for contributions to collaborative computing with applications to security informatics

Bing Zeng
University of Electronic Science
and Technology of China
Sichuan, China

for contributions to image and video coding

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Xi Zhang
Texas A&M University
College Station, TX, USA

for contributions to quality of service in mobile wireless networks

Jianzhong Zhang
Samsung Research America
Mountain View, CA, USA

for leadership in standardization of cellular systems

Yi Zhang
Sichuan University
Chengdu, China

for contributions to convergence theory for neural networks and subspace learning

Lizhong Zheng
MIT - Massachusetts Institute of Technology
Cambridge, MA, USA

for contributions to the theory of multiple antenna communication

Ping Zhou
ANSYS Incorporated
Canonsburg, PA, USA

for contributions to finite element methods applied to electromagnetic devices and electrical machines