

2024 NEWLY ELEVATED FELLOWS

Alessandro Abate

University of Oxford

Oxford Oxfordshire United Kingdom

for contributions to verification and control of stochastic hybrid systems

P Thushara D Abhayapala

Research School of Engineering

Canberra Australian Capital Territory Australia

for contributions to the theory of spherical harmonic-based spatial sound field recording, reproduction, and control

Claudio Adragna

IPC Division, Power Conversion BU

Agrate Brianza Monza and Brianza Italy

for contributions to industrial usage of resonant converters in offline power supplies

Daniel C Alexander

University College London

London United Kingdom

for contributions to medical imaging and analysis

Husam N Alshareef

KAUST

Thuwal Saudi Arabia

for the development of nanoscale materials for device applications and their deployment in volume production

2024 NEWLY ELEVATED FELLOWS

Mark A Anastasio
University of Illinois at Urbana-Champaign
Urbana IL USA

for contributions to advanced computed imaging

Alagan Anpalagan
Ryerson University, ECE
Toronto ON Canada

for contributions to resource management in wireless communication networks

Sameer K Antani
Montgomery Village MD USA

for contributions to medical imaging research in high-morbidity disease screening

Elke Arenholz
Pacific Northwest National Laboratory
Richland WA USA

for contributions to X-ray magnetic spectroscopy

Krassimir Atanassov
Institute of Biophysics and Biomedical Engineering
Sofia Bulgaria

for contributions to introducing intuitionistic fuzzy sets and their applications

Joseph C Bardin
Google/UMass Amherst
Goleta CA USA

for contributions to cryogenic microwave circuits

2024 NEWLY ELEVATED FELLOWS

Mathias Baumert

The University of Adelaide

Adelaide South Australia Australia

for contributions to biomedical signal processing and clinical applications

Daryl G Beetner

Missouri University of Science and Technology

Rolla MO USA

for contributions to measurement, modeling, and prediction of electromagnetic immunity and power integrity issues

Juan P Bello

New York University

New York NY USA

for contributions to sound detection and retrieval

Gabriel Benmouyal

Boucherville QC Canada

for contributions to digital protective relays for power systems

Terry V Benzel

Los Angeles CA USA

for leadership in establishing the field of cybersecurity experimentation

2024 NEWLY ELEVATED FELLOWS

Wendemagegnehu T Beyene
San Jose CA USA

for contributions to modeling and simulation techniques for high-speed links

Swarup Bhunia
University of Florida
Gainesville FL USA

for contributions to the design of secure and trustworthy microelectronic systems

Robert H Bishop
The University of South Florida
Tampa FL USA

for contributions to control systems engineering education

Aggelos Bletsas
Technical University of Crete
Chania Chanion Greece

for contributions to cooperative relaying and backscatter communication networks

James K Breakall
Penn State University
Port Matilda PA USA

for design of novel antennas for radar, communications, and ionospheric and radio-astronomy research

Matthew C Caesar
Champaign IL USA

for contributions to computer network verification and routing

2024 NEWLY ELEVATED FELLOWS

Zhipeng Cai

Georgia State University

Atlanta GA USA

for contributions to resource management and scheduling for high-performance computing

Yijia Cao

CSUST

Changsha Hunan China

for contributions to analysis and control of smart grids

Volkan Cevher

EPFL STI IEL LIONS

Lausanne Vaud Switzerland

for contributions to model-based signal processing and semi-definite programming

Premjeet Chahal

Michigan State University

Okemos MI USA

for contributions to additive manufacturing and materials characterization

Chien C Cheah

Singapore Singapore

for contributions to task-space robot control and dynamic multi-robot control

2024 NEWLY ELEVATED FELLOWS

Ke-Horng Chen

National Chiao Tung University

Hsinchu Taiwan Taiwan

for contributions to power management integrated circuits and system design

Ji Chen

University of Houston

Houston TX USA

for contributions to implantable medical device safety in MRI

Songqing Chen

George Mason University

Fairfax VA USA

for contributions to Internet streaming, content delivery, and security

Hong Chen

PJM Interconnection

Downingtown PA USA

for contributions to economic efficiency equilibrium and risk mitigation in power system operations

Mike Shuo-Wei Chen

S Pasadena CA USA

for contributions to data converter architectures and clock generation techniques

2024 NEWLY ELEVATED FELLOWS

Enhong Chen

University of Science and Technology of China

Hefei Anhui China

for contributions to context-aware data mining and recommender systems

Alexander V Chenakin

Morgan Hill CA USA

for contributions to microwave frequency synthesizer technologies

Wen-Huang Cheng

National Taiwan University

Taipei Taiwan

for contributions to intelligent multimedia computing and applications

Yu Jian Cheng

UESTC

Chengdu Sichuan China

for contributions to substrate integrated millimeter-wave array antenna technology

Yu Cheng

Naperville IL USA

for contributions to secure wireless networks

Long Cheng

Beijing China

for contributions to neural networks for optimization and control

2024 NEWLY ELEVATED FELLOWS

SeongHwan Cho

KAIST

Daejeon Korea, Republic of

for contributions to time-domain circuits and applications

Srabanti Chowdhury

Stanford University

Palo Alto CA USA

for contributions to wide bandgap semiconductor devices and technology

Kaushik R Chowdhury

Northeastern University

Boston MA USA

for contributions to development of cognitive radio networks and applied machine learning for wireless systems

Marcian N Cirstea

Anglia Ruskin University

Cambridge Cambridgeshire United Kingdom

for contributions to system-on-chip design methods and industrial digital controllers using HDLs and FPGAs

Jonathan C Clare

Nottingham University

Nottingham United Kingdom

for contributions to control, simulation and application of power electronic converters

2024 NEWLY ELEVATED FELLOWS

Paolo Colantonio

Roma Rome Italy

for contributions to microwave power amplifiers

Leslie M Collins

Duke University ECE Dept

Durham NC USA

for contributions to signal processing algorithms for auditory applications and to buried threat detection

Noah J Cowan

Johns Hopkins University

Baltimore MD USA

for contributions to sensing, navigation, and control in animals and machines

Bin Cui

Peking University

Beijing China

for contributions to large-scale data management, processing and analytics

Ninel V Cukalevski

IMP-Institute Mihailo Pupin

Belgrade Serbia

for leadership in resilience enhancement in control and information systems

2024 NEWLY ELEVATED FELLOWS

Robert W Cummings
Red Yucca Power Consulting LLC
Albuquerque NM USA

for leadership in power system disturbance analysis and standardization of power system protection and reliability

Bruno De Man
Clifton Park NY USA

for contributions to X-ray computed tomography

Mingcong Deng
Tokyo University of Agriculture and Technology
Koganei Tokyo Japan

for contributions to learning and operator based uncertain nonlinear systems analysis, control, and applications

Subhrakanti Dey
Uppsala University
Uppsala Sweden

for contributions to networked control systems and performance optimization over wireless and sensor networks

Sven J Dickinson
University of Toronto
Toronto ON Canada

for contributions to shape representation, processing, and classification in computer vision

2024 NEWLY ELEVATED FELLOWS

Scott A Diddams

University of Colorado Boulder

Boulder CO USA

for contributions to optical frequency combs and their applications

Xin Luna Dong

Medina WA USA

for contributions to knowledge graph construction and data integration

Min Dong

Ontario Tech University

Oshawa ON Canada

for contributions to transmission design and resource optimization for wireless communications

Mariagrazia Dotoli

Politecnico di Bari

Bari Italy

for contributions to control of logistics systems in smart cities

Junping Du

Beijing University of Posts and Telecommunications

Beijing China

for contributions to modeling and intelligent analysis of big data

2024 NEWLY ELEVATED FELLOWS

*Pengwei Du
Austin TX USA*

for contributions to integration of load resources in electricity market and control of smart grid

*Gregory D Durgin
Georgia Tech
Atlanta GA USA*

for contributions to the theory of fading in multi-antenna RFID systems

*Mohamed Shawki El Moursi
Khalifa University
Abu Dhabi United Arab Emirates*

for contributions to renewable energy integration and hybrid power grids

*Frank Ellinger
TU Dresden
Dresden Germany*

for contributions to radio frequency integrated phase shifters and amplifiers

*Niklas E Elmqvist
University of Maryland
College Park MD USA*

for contributions to mobile, ubiquitous, and immersive technologies for data visualization

2024 NEWLY ELEVATED FELLOWS

*Kevin B Englehart
University of New Brunswick
Fredericton NB Canada*

for contributions to myoelectric signal processing in rehabilitation engineering

*Dirk R Englund
Massachusetts Institute of Technology
Cambridge MA USA*

for contributions to semiconductor quantum photonics and machine learning

*Azim Eskandarian
Virginia Tech
Blacksburg VA USA*

for contributions to communication and control of intelligent autonomous vehicles

*Matthew N Ettus
Monte Sereno CA USA*

for contributions to software-defined radio products

*Herbert S Falk
Troy MI USA*

*for contributions and leadership in secure, reliable, and interoperable
communication of the electric power grid*

*Olivier Alain Faynot
CEA-Leti
Grenoble France*

for leadership in CMOS technology development

2024 NEWLY ELEVATED FELLOWS

Joan Feigenbaum

Yale University Computer Science Department

New Haven CT USA

for contributions to trust-management systems and Internet algorithmics

Dan Feng

Huazhong University of Science And Technology

Wuhan Hubei China

for contributions to data storage systems

Normann Fischer

Pullman WA USA

for contributions to fault protection methodologies for electric power grids

Alessandra Flammini

University of Brescia, DII

Brescia Italy

for contributions to wireless distributed measurements for industrial systems

Victorino Franco

University of Seville

Sevilla Spain

for contributions to the study of thermomagnetic phase transitions, soft magnets, and magnetocaloric materials

2024 NEWLY ELEVATED FELLOWS

*Aaron Franklin
Duke University
Durham NC USA*

for contributions to transistor scaling and carbon nanotubes applications in electronics

*Hiroshi Fujimoto
The University of Tokyo
Kashiwa Chiba Japan*

for contributions to control of high-precision systems

*Jay Michael Gambetta
Yorktown Heights NY USA*

for contributions to quantum computing

*Xinbo Gao
Xidian University
Xian Shaanxi China*

for contributions to hybrid augmented intelligence and image quality assessment

*Yue Gao
Fudan University
Yangpu District Shanghai China*

for contributions to sparse signal processing and smart antennas in cognitive radio and networks

2024 NEWLY ELEVATED FELLOWS

Ana Garcia-armada

Universidad Carlos III de Madrid

Leganes Madrid Spain

for contributions to wireless communications transceivers

Vahan E Gevorgian

NREL

Lakewood CO USA

for contributions to the wind and solar photovoltaics in grids

Reza Ghanadan

Bethesda MD USA

for leadership in robust artificial intelligence technologies and applications

Antoine Girard

CNRS

Gif sur Yvette France

for contributions to formal verification and synthesis of cyber-physical systems

Sergiu R Goma

Qualcomm Inc.

San Diego CA USA

for contributions to hardware implementation of image processing for color cameras in mobile phones

2024 NEWLY ELEVATED FELLOWS

*Maoguo Gong
Xidian University
Xian Shaanxi China*

for contributions to collaborative learning and optimization

*Nathan A Goodman
University of Oklahoma
Norman OK USA*

for contributions to cognitive and distributed radar signal processing

*Neil J Gordon
Torrens Park South Australia Australia*

for contributions to sequential Monte Carlo methods and applications

*Warren J Gross
Cote Saint-Luc QC Canada*

*for contributions to the design of algorithms and integrated circuit architectures
for communication systems*

*Tao Gu
Gordon New South Wales Australia*

for contributions to mobile and wireless sensing systems

*Guan Gui
Nanjing University of Posts and Telecomm
Nanjing Jiangsu China*

for contributions to intelligent signal analysis and wireless resource optimization

2024 NEWLY ELEVATED FELLOWS

Onur G Guleryuz

Google LLC

Mountain View CA USA

for contributions to nonlinear approximation and sparsity-based signal processing

Qinglai Guo

Tsinghua University

Beijing China

for contributions to system-wide voltage control in power systems

Oleg Y Gusikhin

Ford Motor Company

Commerce Twp MI USA

for contributions to applications of cyber-physical systems in automotive engineering and connected vehicles

Sami Haddadin

MSRM / TUM

Munich Germany

for contributions to robot safety, tactile robots, and interaction control

Thomas M Hall

Evans GA USA

for leadership in engineering technology education

2024 NEWLY ELEVATED FELLOWS

Qi He

LinkedIn

San Jose CA USA

for contributions to knowledge engineering and business applications

Lei He

UCLA

Los Angeles CA USA

for contributions to integrated circuits and smart energy systems

Jason C Heikenfeld

University of Cincinnati

Cincinnati OH USA

for leadership in electrofluidic and biosensing devices

Gene E Henneberg

NV Energy

Reno NV USA

for contributions to electric power system integrity protection schemes

Deukhyoun Heo

Washington State University

Pullman WA USA

for contributions to CMOS power amplifiers in multi-layer packages and reconfigurable reactive components

2024 NEWLY ELEVATED FELLOWS

Michael Heyeck
Westerville OH USA

for contributions to development of advanced high-voltage power system technology

Takashi Hiyama
Kumamoto City Kumamoto Japan

for contributions to intelligent power systems

Tsung-Yi Ho
The Chinese University of Hong Kong
Shatin, Hong Kong

for contributions to design automation and test of microfluidic biochips

ChoongSeon Hong
Kyung Hee University
Yongin Gyeonggi-do Korea, Republic of

for contributions to resource management in wireless networks

Ming Hou
Defence Research and Development Canada
North York ON Canada

for leadership in intelligent adaptive systems and interaction-centered design

Jakob Hoydis
Paris Ile-de-France France

for contributions to the use of machine learning in communication systems

2024 NEWLY ELEVATED FELLOWS

Shimin Hu

Tsinghua University

Beijing China

for contributions to computational visual media and geometric processing

Xiaosong Hu

Chongqing University

Chongqing China

for contributions to battery management algorithms and electric vehicle optimization

Changchun Hua

Yanshan University

Qinhuangdao Hebei China

for contributions to intelligent control of nonlinear time-delay systems

Yiming Huai

Pleasanton CA USA

for contributions and leadership to STT MRAM and GMR recording heads development and productization

Minyi Huang

Carleton University

Ottawa ON Canada

for contributions to mean field game theory

2024 NEWLY ELEVATED FELLOWS

*George Q Huang
The University of Hong Kong
Hong Kong Hong Kong*

for contributions on digitization framework and cyber-physical analytics for smart manufacturing

*Francesca Iacopi
University of Technology Sydney
Broadway New South Wales Australia*

for contributions to integration strategies of nanomaterials in silicon technologies

*Omer T Inan
Marietta GA USA*

for contributions to wearable systems for health sensing

*Atif Iqbal
Qatar University
Doha Qatar*

for contributions to multiphase power conversion and renewable energy systems

*Axel A Jantsch
TU Wien
Vienna Austria*

for contributions to modeling and algorithms for Networks-on-Chip

2024 NEWLY ELEVATED FELLOWS

*Debdeep Jena
Cornell University
Ithaca NY USA*

for contributions to distributed polarization doping in the III-V semiconductor family

*Xiaochuan Jia
Dayton OH USA*

for contributions to development of electric machines and DC power generation systems for aerospace applications

*Yu-Gang Jiang
Shanghai China*

for contributions to large-scale video analysis and open-source datasets

*Chunxiao Jiang
Tsinghua University
Beijing China*

for contributions to heterogeneous space-air-ground networks

*Shi Jin
Southeast University
Nanjing Jiangsu China*

for contributions to MIMO and reconfigurable intelligent surface-assisted communications

2024 NEWLY ELEVATED FELLOWS

Alex K Jones

University of Pittsburgh

Pittsburgh PA USA

for contributions to sustainable computing

Josep Miquel Jornet

Boston MA USA

for contributions in terahertz communication and nanonetworking

Shumpei Kameyama

Mitsubishi Electric Corporation

Kamakura Kanagawa Japan

for leadership in fiber-based lidar technology for environment sensing applications

Telesphor Kamgaing

Intel Corporation

Chandler AZ USA

for contributions to microwave and millimeter-wave packaging and system integration technologies

Niklas Karlsson

Mountain View CA USA

for technical leadership to vSLAM and online advertising

Zaher M Kassas

The Ohio State University

Columbus OH USA

for contributions to navigation with signals of opportunity

2024 NEWLY ELEVATED FELLOWS

*Gordon A Keeler
Falls Church VA USA*

for leadership in heterogeneous photonics and optical microsystems

*Chulhong Kim
POSTECH, Convergence IT Engineering
Pohang Gyeongsangbuk-do Korea, Republic of*

for contributions to photoacoustic imaging and its clinical applications

*Yongdae Kim
KAIST
Daejeon Korea*

for contributions to cellular and distributed system security

*Hyesoon Kim
Atlanta GA USA*

for contributions to resource modeling and partitioning in heterogeneous computing systems

*Dietmar Kissinger
Universitat Ulm
Ulm Germany*

for contributions to millimeter-wave integrated circuits

2024 NEWLY ELEVATED FELLOWS

Joerg Kliewer

Fair Lawn NJ USA

for contributions to theory and applications of iteratively decodable error correcting codes and network coding

Raymond H Knopp

Eurecom

Biot France

for contributions to multiuser diversity and open radio access networks

Sastry Kompella

North Potomac MD USA

for leadership in advancing dynamic spectrum access and wireless communications

Rakesh Kumar

Urbana IL USA

for contributions to energy-efficient processor architecture and design

Ashish Kundu

San Jose CA USA

for contributions to data security, privacy, and compliance in cloud systems

Gitta Kutyniok

Ludwig-Maximilians University Munich

Munich Bayern Germany

for contributions to the mathematical theory of artificial intelligence in signal processing and communication

2024 NEWLY ELEVATED FELLOWS

Mario Lanza

King Abdullah University of Science & Technology

Thuwal Makkah Saudi Arabia

for contributions to nanoelectronics metrology of ultra-scaled materials and devices

Pedro Larranaga

Universidad Politecnica de Madrid

Boadilla del Monte Madrid Spain

for contributions to estimation of distribution algorithms, feature subset selection and Bayesian networks methodologies

Miguel Laso

UPNA

Pamplona Navarra Spain

for contributions to high-power and smooth-profiled filters

Matti Latva-aho

University of Oulu

Oulu Finland

for contributions to mobile communication systems

Long B Le

Institut National de la Recherche Scientifique

Montreal QC Canada

for contributions to resource management and optimization of wireless networks

2024 NEWLY ELEVATED FELLOWS

Jonathan Le Roux

MERL

Cambridge MA USA

for contributions to multi-source speech and audio processing

Roger Lecomte

University of Sherbrooke

Sherbrooke QC Canada

for contributions to avalanche photodiode use in scintillation detectors and to positron emission tomography

Byoung Kuk Lee

Sungkyunkwan University

Suwon-Si Gyeonggi-do Korea, Republic of

for contributions to battery chargers for electric vehicles

Benjamin C Lee

University of Pennsylvania

Philadelphia PA USA

for contributions to the design of microprocessors with machine learning and game theory

Dong-Choon Lee

Yeungnam University, Dept. of Electrical Engineering

Gyeongsan Gyeongsangbuk-do Korea, Republic of

for contributions to energy conversion technology and systems

2024 NEWLY ELEVATED FELLOWS

Zhen Lei

Chinese Academy of Sciences

Beijing China

for contributions to face analysis and object detection

Xiao-Li Li

Institute for Infocomm Research

Singapore Singapore

for contributions to machine learning models

Hongwei Li

UESTC

Chengdu China

for contributions to data security in cloud computing

Changzhi Li

Lubbock TX USA

for contributions to portable microwave radar sensor technologies

Ming Li

University of Arizona

Tucson AZ USA

for contributions to information and network security

Jie Li

Shanghai Jiao Tong University

Shanghai China

for contributions to performance and management of network systems

2024 NEWLY ELEVATED FELLOWS

Qinghua Li

Intel

San Ramon CA USA

for contributions to standardization of wireless channel probing and modeling technologies

Pan Li

Case Western Reserve University

Cleveland OH USA

for contributions to scaling laws and cross-layer optimization for wireless networks

Di Liang

Santa Barbara CA USA

for contributions to photonic integration in optical communication, computing, and volume production

Jun Liang

Cardiff University School of Engineering

Cardiff United Kingdom

for contributions to DC grid's modeling and control

Zhiqiang Lin

The Ohio State University

Columbus OH USA

for contributions to automated vulnerability discovery, code hardening, and monitoring in mobile and systems security

2024 NEWLY ELEVATED FELLOWS

Liang Lin

Sun Yat-Sen University

Guangzhou Guangdong China

for contributions to multimedia content analysis

Zhiyun Lin

Southern University of Science and Technology

Shenzhen Guangdong China

for contributions to distributed multi-agent systems and autonomous systems

Ming-Yu Liu

NVIDIA Research

San Jose CA USA

for contributions to generative adversarial networks in multimodal content creation

Hang Liu

North Potomac MD USA

for contributions to the development and standardization of wireless mesh networking and video streaming technologies

Yuanwei Liu

Queen Mary University of London

London United Kingdom

for contributions to non-orthogonal multiple access technologies and wireless power transfer

2024 NEWLY ELEVATED FELLOWS

Hoi-Kwong Lo

University of Toronto Department of ECE

Toronto ON Canada

for contributions to theory and practice of quantum cryptography

Marko Loncar

Harvard University

Cambridge MA USA

for contributions to thin film lithium nanophotonics

Yue Lu

Winchester MA USA

for contributions to multidimensional signal processing

Jiwen Lu

Tsinghua University

Beijing China

for contributions to visual content analysis and recognition

Huchuan Lu

Dalian University of Technology

Dalian Liaoning China

for contributions to visual object tracking and salient object detection

Chang-Tien Lu

Virginia Tech

Falls Church VA USA

for contributions to spatial informatics and urban computing

2024 NEWLY ELEVATED FELLOWS

Jun Luo

*Nanyang Technological University School of Computer Engineering
Singapore Singapore*

for contributions to wireless networking and sensing using Internet-of-Things

Siwei Ma

*Peking University
Beijing China*

for contributions to video coding technologies and standards

Kaixue Ma

*Tianjin University
Tianjin China*

for contributions to low-loss substrate integrated suspended line technology and reconfigurable millimeter-wave front-end integrated circuits

Jochen Maes

Laakdal Belgium

for contributions to crosstalk cancellation technologies for twisted pair access

Bradley A Malin

Nashville TN USA

for contributions to data engineering, privacy, and security in biomedicine

2024 NEWLY ELEVATED FELLOWS

Steve Mann

University of Toronto

Toronto ON Canada

for contributions to wearable and immersive computing technologies

Jason R Marden

University of California Electrical and Computer Engineering

Santa Barbara CA USA

for contributions to game theory for distributed control systems

Manuel Martin-neira

ESTEC TEC-ETP

Noordwijk Netherlands

for contributions and leadership in innovative remote sensing techniques

Christos Masouros

University College London

London United Kingdom

for contributions to interference exploitation and joint sensing and communications

Michael J Mcshane

Texas A&M University

College Station TX USA

for contributions to biomaterials-based optical biosensors

2024 NEWLY ELEVATED FELLOWS

Prashant G Mehta
University of Illinois
Urbana IL USA

for contributions to nonlinear filtering

Klaus Mueller
New York NY USA

for contributions to image reconstruction and visualization

Max Mühlhäuser
Technische Uni Darmstadt
Darmstadt Hessen Germany

for contributions to distributed software engineering

Arrate Munoz-barrutia
Universidad Carlos III de Madrid
Leganes Madrid Spain

for contributions to biomedical image processing

Toshiyuki Murakami
Keio University
Yokohama Kanagawa Japan

for contributions to reaction torque observer and power assisted control

Tadahiko Murata
Osaka University
Ibaraki Osaka Japan

for contributions to evolutionary multi-objective optimization and algorithms

2024 NEWLY ELEVATED FELLOWS

S M Muyeen

Qatar University

Doha Ad Dawhah Qatar

for contributions to stable grid-interfaced renewable energy conversion and control

Wei Ni

CSIRO

Sydney New South Wales Australia

for contributions to resource allocation and cooperation in unmanned aerial vehicle networks

Dimitrios S Nikolopoulos

Virginia Tech

Blacksburg VA USA

for contributions to dynamic execution environments and multiprocessor memory management

Paul Oh

University of Nevada Las Vegas

Las Vegas NV USA

for contributions to unmanned aerial vehicles and humanoid robotics

Giacomo Oliveri

University of Trento

Trento Italy

for contributions to analytic design of antenna arrays and compressive sensing in electromagnetics

2024 NEWLY ELEVATED FELLOWS

*Lorraine K Padden
Padden Engineering, LLC
Katy TX USA*

for contributions to development of standards for motor protection and applications in industry

*Gopal C Pandurangan
University of Houston
Houston TX USA*

for contributions to theory and algorithms for distributed computing and networks

*Bijaya Ketan Panigrahi
IIT Delhi
New Delhi India*

for design of intelligent tools for power quality improvement and MPPT for solar energy systems

*Sri Parameswaran
The University of New South Wales
New South Wales Australia*

for contributions to embedded computer circuits and systems

*Seungbae Park
Binghamton University
Binghamton NY USA*

for contributions to design of reliable electronic packaging

2024 NEWLY ELEVATED FELLOWS

Vito Pascazio

University Napoli Parthenope, Dip. Ingegneria

Napoli Italy

for contributions to statistical signal processing in imaging radars

Sudeep Pasricha

Colorado State University

Fort Collins CO USA

for contributions to design and optimization of chip-scale communication architectures for manycore computing

Ioannis Pavlidis

Computational Physiology Lab

Houston TX USA

for contributions to contact-free physiological measurements and affective computing

Robert C Pilawa-podgurski

Alameda CA USA

for contributions to hybrid switched capacitor power converters

Yury Polyanskiy

MIT

Cambridge MA USA

for contributions to information measures and finite-blocklength information theory

2024 NEWLY ELEVATED FELLOWS

Milos R. Popovic
KITE - Toronto Rehabilitation Institute
Toronto ON Canada

for contributions to novel electrical stimulation approaches and devices in biomedical engineering

Denys Poshyvanyk
College of William & Mary
Williamsburg VA USA

for contributions to integrating software analyses and machine learning

Pau Prats-iraola
Microwave & Radar Institute
Wessling Bayern Germany

for contributions to the multimodal processing of airborne and spaceborne synthetic aperture radar data

Tom Prevost
Weidmann Electrical Technology Inc.
Saint Johnsbury VT USA

for contributions to life estimation of transformer insulation systems

Xiaoning Qi
Palo Alto CA USA

for leadership in open-source hardware of computer architecture and contributions to holistic interconnect system design

2024 NEWLY ELEVATED FELLOWS

Li Qi

Cary NC USA

for contributions to DC distribution protection and architectures of DC shipboard power systems

Jianbin Qiu

Harbin Institute of Technology

Harbin Heilongjiang China

for contributions to intelligent fuzzy control systems and applications

Qinru Qiu

Manlius NY USA

for contributions to modeling and optimization of energy efficient computing systems

Veronika A Rabl

Alexandria VA USA

for contributions to the design of demand response resources and electrification

Ionut Radu

Soitec

Bernin Rhone-Alpes France

for contributions to silicon-on-insulator materials for semiconductor devices

Vijay Raghunathan

Purdue University

West Lafayette IN USA

for contributions to design of low power and energy harvesting embedded systems

2024 NEWLY ELEVATED FELLOWS

*Narendran Ramakrishnan
Virginia Tech Dept of Computer Science
Arlington VA USA*

for contributions to algorithms and systems for event modeling and forecasting

*Li Ran
Chongqing University
Chongqing China*

for contributions to the modeling of power electronic devices

*Rajiv Ranjan
Chester-Le-Street Durham United Kingdom*

for contributions to quality-of-service-aware resource management in cloud computing systems and big data analytics

*Benjamin H Recht
UC Berkeley
Berkeley CA USA*

for contributions to high-dimensional signal processing, machine learning, and optimization

*Haoxing Ren
Austin TX USA*

for contributions to physical synthesis of integrated circuits

2024 NEWLY ELEVATED FELLOWS

*Tian-Ling Ren
Tsinghua University
Beijing China*

for contributions to fabrication and application of 2D materials

*John V Ringwood
Maynooth University
Maynooth Kildare Ireland*

for contributions to wave energy conversion systems

*Anderson R Rocha
Institute of Computing, Unicamp
Campinas Sao Paulo Brazil*

for contributions to digital forensics using machine learning

*Esther Rodriguez-villegas
Imperial College London
London United Kingdom*

for contributions to low power biomedical circuits and systems for wearable medical applications

*Michael E Ropp
Albuquerque NM USA*

for contributions to distributed energy resources integration in power systems

*Luke Rosenberg
Cumberland Park South Australia*

for contributions to maritime radars

2024 NEWLY ELEVATED FELLOWS

Lawrence J. Rosenblum

Rockville MD USA

for leadership in developing mobile augmented reality, visualization, and visual analytics of complex data

Joseph R Rostron

McDonough GA USA

for leadership in power switching interrupter design and development of circuit breakers and switchers

Stephen E Russek

NIST

Boulder CO USA

for contributions to metrology of spintronic devices and standardization of magnetic resonance imaging

Mehrdad Saif

University of Windsor Faculty of Engineering

Windsor ON Canada

for contributions to monitoring, diagnosis and prognosis in cyber-physical health systems

Karthikeyan Sankaralingam

Madison WI USA

for contributions to identifying and mitigating the challenges of dark silicon

2024 NEWLY ELEVATED FELLOWS

*Moshe Schwartz
McMaster University
Hamilton ON Canada*

for contributions to the theory and practice of error-correcting coding for storage systems

*Mathini Sellathurai
Heriot-Watt University
Edinburgh United Kingdom*

for contributions to multi-user, multi-functional and multi-antenna wireless communications

*Atif Shamim
KAUST
Thuwal Makkah Saudi Arabia*

for contributions in the field of antenna-on-chip and antenna-in-package

*Osama K Shana'a
MediaTek Inc./UC Berkeley
San Jose CA USA*

for leadership in developing low-cost high-performance RF transceivers

*Maryam M Shanechi
Los Angeles CA USA*

for contributions to brain-machine interfaces

2024 NEWLY ELEVATED FELLOWS

*Mohammad S Sharawi
Polytechnique Montreal
Montreal QC Canada*

for contributions to multiband, reconfigurable, and integrated active multiple-input and multiple-output antenna systems

*Mansoor Sheik-bahae
University of New Mexico Pysics/Astro Dept
Albuquerque NM USA*

for contributions to nonlinear optics and solid-state laser cooling

*Hamid R Sheikh
Allen TX USA*

for contributions to visual quality prediction in mobile cameras

*Jianbing Shen
University of Macau
Macau Macau*

for contributions to computer vision for video analysis and visual understanding

*Jinn-Kong Sheu
National Cheng-Kung University Department of Photonics
Tainan Taiwan*

for contributions to light-emitting diodes and photovoltaic devices

2024 NEWLY ELEVATED FELLOWS

*Kazuo Shimizu
Shizuoka University
Hamamatsu Japan*

for contributions to the modeling and applications of microplasma phenomena in complex industrial processes

*Forrest J Shull
Carnegie Mellon University / SEI
Kensington MD USA*

for contributions to software engineering research

*Padhraic J Smyth
University of California, Irvine
Irvine CA USA*

for contributions to machine learning and data science

*Ho-Jin Song
Pohang University of Science and Technology
Pohang Gyeongsangbuk-do Korea, Republic of*

for contributions to wireless terahertz technology

*Volker Sorger
George Washington University
Washington DC USA*

for contributions to the optoelectronic devices and photonic-electronic ASICs

2024 NEWLY ELEVATED FELLOWS

Dusan M Stipanovic
University of Illinois
Urbana IL USA

for contributions to control of complex systems

Vladimir M Stojanovic
Oakland CA USA

for contributions to electronic-photonic design and system-on-chip integration

Danail V Stoyanov
University College London
London United Kingdom

for contributions to intelligent computer-assisted surgical and diagnostical systems

Karin Strauss
Seattle WA USA

for contributions to storage systems

Shankar Subramaniam
University of California, San Diego
La Jolla CA USA

for contributions to biomedical science and engineering

Salah Sukkarieh
University of Sydney Australian Centre For Field Robotics
Sydney New South Wales Australia

for contributions to robotic navigation in aerial and agricultural applications

2024 NEWLY ELEVATED FELLOWS

Kai Sun

Tsinghua University

Beijing China

for contributions to power electronics in renewable energy systems and microgrids

Kai Sun

University of Tennessee, EECS

Knoxville TN USA

for contributions to power grid stability analysis and control

Siew Chong Tan

University of Hong Kong

Hong Kong Hong Kong

for contributions to the control of power converters and sustainable lighting technologies

Yoichiro Tanaka

Yamagata Japan

for contributions to perpendicular magnetic recording technology for disk drives

Yang Tang

ECUST

Shanghai China

for contributions to hybrid multi-agent systems and complex networks

2024 NEWLY ELEVATED FELLOWS

Yufei Tao

Chinese University of Hong Kong

Hong Kong Hong Kong

for contributions to large-scale data processing

Sophie Tarbouriech

CNRS

Toulouse France

for contributions to nonlinear control systems with isolated nonlinear elements

Maria C Tavares

University of Campinas

Campinas Sao Paulo Brazil

for contributions to single-phase and three-phase auto-reclosing switching of transmission lines

Ufuk Topcu

Austin TX USA

for contributions to the design and verification of autonomous systems

Georgia Tourassi

Oak Ridge National Laboratory

Oak Ridge TN USA

for contributions to artificial intelligence and high performance computing in medicine

2024 NEWLY ELEVATED FELLOWS

*Kim Fung Tsang
City University of Hong Kong
Hong Kong Hong Kong*

for contributions to systems safety engineering

*Devis Tuia
EPFL
Sion Valais Switzerland*

*for contributions to artificial intelligence and machine learning applied to Earth
Observation data*

*Yukiharu Uraoka
Nara Institute of Science and Technology
Ikoma Nara Japan*

for contributions to reliability evaluation technology for thin film devices

*Ardalan Vahidi
Clemson University
Clemson SC USA*

*for contributions to control of connected, automated, and hybrid vehicles and
applications of optimal control*

*Marianna Vaiman
Los Angeles CA USA*

for contributions to transmission and distribution grids

2024 NEWLY ELEVATED FELLOWS

Alberto Valdes-garcia

IBM

Yorktown Heights NY USA

for contributions to millimeter-wave circuits and systems for communications

Kush R Varshney

Chappaqua NY USA

for contributions to socially responsible and trustworthy machine learning

Giri Venkataramanan

University of Wisconsin ECE Dept

Madison WI USA

for contributions to control of energy resources in microgrids

Martin J Wainwright

LIDS/EECS at MIT

Cambridge MA USA

for contributions to the theory of statistical signal processing and machine learning

Jian Wang

Wuhan National Lab for Optoelectronics

Wuhan Hubei China

for contributions to twisted light, structured light, and photonic integration for multi-dimensional optical communications

2024 NEWLY ELEVATED FELLOWS

Junmin Wang
University of Texas at Austin
Austin TX USA

for contributions to ground vehicle safety

Zhen Wang
Northwestern Polytechnical University
Xi'an China

for contributions to cooperation in multi-agent games and computing methods in networked intelligent systems

Beibei Wang
Clarksville MD USA

for contributions to wireless sensing and cognitive communications

Chih-Chun Wang
Purdue University
West Lafayette IN USA

for contributions to graph-based error-correcting codes and network codes

Zhi Wei
New Jersey Institute of Technology
Newark NJ USA

for contributions to knowledge discovery from biological data

Brian A Welchko
Oakland Township MI USA

for contributions to electric propulsion systems

2024 NEWLY ELEVATED FELLOWS

Chao-Kai Wen

National Sun Yat-sen University

Kaohsiung Taiwan

for contributions to deep learning technology for wireless systems

David Wipf

Shanghai China

for contributions to detecting low-dimensional data structures

Hang Wong

Kowloon Hong Kong

for contributions to development of magneto-electric dipole and L-probe feed for wideband and reconfigurable antennas

Roger Woods

Queen's University Belfast

Belfast Antrim United Kingdom

for contributions to VLSI chips and FPGA implementations for signal processing

Barry Bing-Ruey Wu

Keysight Technologies, Inc.

Santa Rosa CA USA

for contributions to enhancement and commercialization of InP-based ultra-high-speed DHBT IC technology

2024 NEWLY ELEVATED FELLOWS

Jianzhong Wu

Cardiff University/School of Engineering

Cardiff United Kingdom

for contributions to multi-energy systems and peer-to-peer energy trading

Qihui Wu

NUAA

Nanjing Jiangsu China

for contributions to cognitive radio networks

Henk Wymeersch

Chalmers University of Technology

Goteborg Sweden

for contributions to radio localization and sensing

Yuanqing Xia

Beijing Institute of Technology

Beijing China

for contributions to controlling unmanned systems

Jing Xiao

Ping An Insurance Group of China

Cupertino CA USA

for contributions to the multiple modality knowledge mining technologies

2024 NEWLY ELEVATED FELLOWS

Bin Xiao

The Hong Kong Polytechnic University

Kowloon Hong Kong

for contributions to wireless and system security

Xiaorong Xie

Tsinghua University

Beijing China

for contributions to analysis of subsynchronous resonance in electrical power systems

Sheng Quan Xie

University of Leeds

Leeds United Kingdom

for contributions to robotics for rehabilitation and healthcare

Jinjun Xiong

East Amherst NY USA

for contributions to process variation modeling, circuit yield optimization, and their applications in industry

Wei Xu

Huazhong University of Science and Technology

Wuhan Hubei China

for contributions to design and control of linear and rotary machines and drives

2024 NEWLY ELEVATED FELLOWS

Wenyuan Xu

Zhejiang University

Hangzhou Zhejiang China

for contributions to embedded systems for automobile security

Ke Xu

Tsinghua University

Beijing China

for contributions to optimal traffic management and network security

Bing Xue

Victoria University of Wellington

Wellington Greater Wellington New Zealand

for contributions to evolutionary deep learning

Koji Yamada

AIST

Tsukuba Ibaraki Japan

for contributions to silicon photonics

Zheng Yan

Xidian University

Espoo Finland

for contributions to trust management in communications and networking

2024 NEWLY ELEVATED FELLOWS

Chenguang Yang
University of the West of England
Bristol South Gloucestershire United Kingdom

for contributions to control and learning of mechatronic systems

Georgios Yannakakis
Institute of Digital Games
Msida Malta

for contributions to affective computing and artificial intelligence applied to games

Kui Yao
IMRE, ASTAR, Singapore
Singapore Singapore

for contributions to the development of advanced ferroelectric thin films and their sensor applications

John Yeow
University of Waterloo
Waterloo ON Canada

for contributions to the understanding and applications of nanostructures and nanocomposites

Arie Yeredor
Tel Aviv University
Tel-Aviv Israel

for contributions to blind source separation

2024 NEWLY ELEVATED FELLOWS

Nobuyuki Yoshikawa
Yokohama National University Dept of ECE
Yokohama Japan

for contributions to the development of low-power superconductive digital circuits and their application to reversible-computing

Alfred Yu
University of Waterloo
Waterloo ON Canada

for contributions to ultrasound imaging technology and therapy

Hengyong Yu
University of Massachusetts Lowell
Westford MA USA

for contributions to tomographic image reconstruction

Shimeng Yu
Georgia Institute of Technology
Atlanta GA USA

for contributions to non-volatile memories and in-memory computing

Yifei Yuan
Livingston NJ USA

for contributions to non-orthogonal multiple access and narrow-band Internet-of-Things technology and standardization

2024 NEWLY ELEVATED FELLOWS

Massood Zandi Atashbar
Western Michigan University ECE Dept
Kalamazoo MI USA

for contributions to flexible hybrid electronics

Zhi-Hui Zhan
South China University of Technology
Guangzhou Guangdong China

for contributions to efficient adaptive evolutionary computation

Pei Zhang
Beijing China

for contributions to computational methods for smart control centers and probability-based planning and operation

Tao Zhang
Tsinghua University
Beijing China

for contributions to robot vision perception and adaptive fault-tolerant control

Hao Zhang
Simon Fraser University
Burnaby BC Canada

for contributions to shape analysis and synthesis in visual computing

Hui Zhang
Beijing China

for contributions to automotive electronic systems

2024 NEWLY ELEVATED FELLOWS

*Fumin Zhang
Milton GA USA*

for contributions to autonomy of robotic sensing networks and control of marine robots

*Di Zhang
Carmel CA USA*

for contributions to motor drives and breakers for electrified aircraft propulsion

*Bo Zhang
South China University of Technology
Guangzhou Guangdong China*

for contributions to nonlinear analysis in power electronics

*Honggang Zhang
Zhejiang Lab
Hangzhou Zhejiang China*

for contributions to intelligent wireless communications and networks

*Lian Zhao
Toronto Metropolitan University - ECE
Toronto ON Canada*

for contributions to modeling, performance analysis, and resource management of wireless networks

2024 NEWLY ELEVATED FELLOWS

Jim P Zheng

State University of New York at Buffalo

Clarence Center NY USA

for contributions to energy storage technologies

Tongxin Zheng

ISO New England

Longmeadow MA USA

for contributions to electricity market design and its operational method

Kan Zheng

Ningbo University

Ningbo Zhejiang China

for contributions to resource management in wireless networks

Sheng Zhong

Nanjing University

Nanjing Jiangsu China

for contributions to incentive-compatible and privacy-preserving mechanisms in distributed systems

Zheng Zhou

Teshmont Consultants LP

Winnipeg MB Canada

for contributions to electromagnetic transients simulation and the study of HVDC dynamics

2024 NEWLY ELEVATED FELLOWS

Enrico Zio

Politecnico Di Milano

Milano Italy

for contributions to safety and reliability engineering

Georges Zissis

Toulouse France

for contributions to improving efficiency and light quality, and enabling industrial applications in lighting systems