

## 2022 NEWLY ELEVATED FELLOWS

Dr. Amin Abbosh  
Brisbane, Queensland Australia

*for contributions to electromagnetic medical imaging*

Dr. Daniel Abramovitch  
Palo Alto, CA USA

*for contributions to the development of algorithms for control of mechatronic systems*

Prof. Behcet Acikmese  
Seattle, WA USA

*for contributions to optimization-based nonlinear control and to planetary landing systems*

Bo Ai  
Beijing, China

*for contributions to channel modeling and wireless communications in high-speed railways*

Prof. Maruthi Akella  
Austin, TX USA

*for contributions to spacecraft control systems*

Prof. J. Marcos Alonso  
Gijon, Asturias, Spain

*for contributions to power electronics in lighting applications*

Prof. Ghassan Alregib  
Atlanta, GA USA

*for contributions to perception-based and context-based visual signal processing*

Prof. Lay-Kee Ang  
Singapore, Singapore

*for contributions to electron emission and space charge effects in nanodiode and quantum materials*

Murali Annavaram  
Los Angeles, CA USA

*for contributions to heterogeneous architectures for energy-efficient computing systems*

Prof. Grigoris Antoniou  
Huddersfield, United Kingdom

*for contributions to knowledge representation within artificial intelligence and to the semantic web*

Shoko Araki  
Kyoto, Japan

*for contributions to blind source separation of noisy and reverberant speech signals*

Prof. Harry Asada  
Cambridge, MA USA

*for the design, modeling, and control of direct drive robotic arms*

Kemal Aygun  
Tempe, AZ USA

*for contributions to high-bandwidth and high-speed packaging and socket technologies*

Rajapandian Ayyanar  
Tempe, AZ USA

*for contributions to power conversion and grid integration of renewable resources*

Arturo Azcorra  
Leganes, Madrid, Spain

*for leadership in developing the midhaul and core of 5G networks*

Toshihiko Baba  
Yokohama, Japan

*for contributions to photonic nanostructure waveguides and emitters*

Dr. Michiel Bacchiani  
Tokyo, Japan

*for leadership in commercial automatic speech recognition systems*

Prof. Thomas Baeck  
Waltrop, Germany

*for contributions in synthesizing evolutionary computation*

Prof. Ruth Bahar  
Providence, RI USA

*for contributions to modeling and design of power-aware and noise-tolerant nanoscale computing systems*

Prof. Dominique Baillargeat  
Limoges, Limousin, France

*for contributions to developments of nanomaterials for RF packaging and sensors*

Dr. Anirban Bandyopadhyay  
Pleasanton, CA USA

*for leadership in silicon RF-SOI technologies*

Sujata Banerjee  
Palo Alto, CA USA

*for leadership in programmable and energy efficient networks*

Prof. Suman Banerjee  
Madison, WI USA

*for development of tools to improve performance and usability of wireless systems*

Prof. Seth Bank  
Austin, TX USA

*for contributions to the growth of optoelectronic materials by molecular beam epitaxy*

Cullen Bash  
Los Gatos, CA USA

*for contributions to improving the sustainability and energy efficiency of data center infrastructure*

Prof. Stephen Beeby  
Southampton, Hampshire, United Kingdom

*for contributions to energy harvesting and its application in e-textiles*

Boualem Benatallah  
Kensington, New South Wales, Australia

*for contributions to declarative service composition and web services middleware*

Suparna Bhattacharya  
Bangalore, Karnataka, India

*for contributions to Linux kernel for enterprise and advanced data processing systems*

Dr. Subhashish Bhattacharya  
Raleigh, NC USA

*for contributions to power conversion systems and active power filters*

Prof. Tianshu Bi  
Beijing, China

*for contributions to synchrophasor technology and protective relay applications*

Dr. Stephan Biller  
Chapel Hill, NC USA

*for leadership in the applications of Internet of Things and Artificial Intelligence in manufacturing industry*

Prof. Emil Bjornson  
Kista, Stockholm, Sweden

*for contributions to multi-antenna and multi-cell wireless communications*

Dr. M Brian Blake  
Washington, DC USA

*for contributions to web-based software engineering*

Dr. Laure Blanc-feraud  
Sophia Antipolis, Cedex, France

*for contributions to inverse problems in image processing*

Dr. Petros Boufounos  
Winchester, MA USA

*for contributions to compressed sensing*

James Buckwalter  
Santa Barbara, CA USA

*for contributions to high-efficiency millimeter-wave power amplifiers and optical transceivers in SOI technologies*

Dr. Humberto Bustince  
Pamplona, Navarra, Spain

*for contributions to information fusion under uncertainty*

Prof. Darwin Caldwell  
Bury, United Kingdom

*for contributions to Actuator Technology, Legged Systems and Soft Human Friendly Robotic*

Prof. Erik Cambria  
Singapore, Singapore

*for contributions to affective computing and sentiment analysis*

Prof. Ming Cao  
Groningen, Netherlands

*for contributions to multi-agent control systems for sensor, robotic and social networks*

Anita Carleton  
Sewickley, PA USA

*for leadership in the advancement of software measurement and practices*

Prof. Joao Paulo Catalao  
Tortosendo, Portugal

*for contributions to power system operations and demand response*

Dr. Andrea Cavallini  
Bologna, Italy

*for contributions to the development of electrical insulation diagnostics through partial discharge measurements*

Dr. Nacer Chahat  
Altadena, CA USA

*for development of CubeSat and Spacecraft antennas for inter-planetary missions*

Prof. Samarjit Chakraborty  
Chapel Hill, NC USA

*for contributions to system-level timing analysis of cyber-physical systems*

Prof. Anthony Chan Carusone  
Toronto, ON Canada

*for contributions to integrated circuits for digital communication*

Prof. Nitesh Chawla  
Notre Dame, IN USA

*for contributions to learning from imbalanced data and heterogeneous graphs*

Prof. Wenquan Che  
Guangzhou, Guangdong, China

*for contributions to planar transmission line structures for microwave passive components*

Dr. Jinjun Chen  
Melbourne, Victoria, Australia

*for contributions to scalable architecture for cloud data storage and processing*

Prof. Minghua Chen  
Kowloon Tong, Hong Kong

*for contributions to delay-critical networked systems*

Dr. Baoxing Chen  
Westford, MA USA

*for contributions to integrated signal-power isolation and integrated magnetics*

Dr. Zhihong Chen  
West Lafayette, IN USA

*for contributions to the understanding and applications of low-dimensional nanomaterials*

Prof. Hongsheng Chen  
Hangzhou, Zhejiang, China

*for contributions to electromagnetic metamaterial and invisibility cloak*

Prof. Xinkai Chen  
Saitama, Saitama, Japan

*for contributions to nonlinear adaptive control and nonlinear observer design for mechatronic systems*

Prof. Xiang Cheng  
Beijing, China

*for contributions to vehicular communication channel modeling and system design*

Prof. Alessandro Chiuso  
Padova, Padua, Italy

*for contributions to subspace and Bayesian identification methods*

Dr. Thomas Cho  
Seongnam-Si, Gyeonggi-do, South Korea

*for leadership and contributions in CMOS RFIC design and commercialization of wireless mobile systems*

Prof. Ki Chon  
Storrs, CT USA

*for the development of novel algorithms to detect atrial fibrillation from smart wearable devices*

Chee-Yee Chong  
Los Altos, CA USA

*for contributions to information fusion methods for multi-sensor tracking*

Dr. Thomas Clancy  
Arlington, VA USA

*for leadership in security and wireless communications*

Prof. Holger Claussen  
Maynooth, Kildare, Ireland

*for contributions to small cell wireless network technology*

Walter Cleaveland  
Arlington, VA USA

*for contributions to verification tools for finite-state and cyber-physical systems*

Prof. Bruno Clerckx  
London, United Kingdom

*for contributions to multi-antenna communications and wireless power transmission*

Todd Coleman  
La Jolla, CA USA

*for contributions to biomedical signal processing and leadership in neuro-engineering*

Sinem Coleri  
Sariyer, Istanbul, Turkey

*for contributions to wireless technologies and sensor networks*

Prof. Andrea Conti  
Ferrara, Italy

*for contributions to wireless communication and localization systems*

Mauro Conti  
Montecastrilli, Terni, Italy

*for contributions to communications network security*

Prof. Alessandra Costanzo  
Bologna, Italy

*for contributions to nonlinear electromagnetic co-design of RF and microwave circuits*

Linglong Dai  
Beijing, China

*for contributions to massive MIMO*

Prof. Luca Daniel  
Cambridge, MA USA

*for contributions to modeling and simulation of electronic systems*

Paul Dayton  
Chapel Hill, NC USA

*for contributions to contrast agents and contrast-enhanced ultrasound in medical diagnostics and therapeutics*

Dr. Riccardo Degaudenzi  
Den Haag, Zuid-Holland, Netherlands

*for leadership in digital communication standards for satellite communications*

F. Degertekin  
Atlanta, GA USA

*for contributions to micromachined ultrasonic and optomechanical transducers and systems*

Dr. Fang Deng  
Novi, MI USA

*for contributions to permanent magnet drive design and control methodology*

Massimiliano Di Ventra  
La Jolla, CA USA

*for contributions to quantum transport in nanoscale systems and in-memory computing*

Prof. Alexandros G. Dimakis  
Austin, TX USA

*for contributions to distributed coding and learning*

Sorin Draghici  
Ann Arbor, MI USA

*for contributions to the analysis of high-throughput genomics and proteomics data*

Donald Dunn  
Highlands, TX USA

*for contributions to process control systems*

Dr. Trung Q. Duong  
Belfast, United Kingdom

*for contributions to cooperative communications and physical layer security*

Prof. Tarek El-bawab  
Boston, MA USA

*for contributions to the definition, recognition, accreditation criteria, and program development of modern network-engineering education*

R. Scott Erwin  
Albuquerque, NM USA

*for leadership and contributions to the development, implementation and on-orbit demonstration of spacecraft control technologies*

Dr. Carol Espy-wilson  
College Park, MD USA

*for contributions to speech enhancement and recognition*

Dr. Sonia Fahmy  
West Lafayette, IN USA

*for contributions to design and evaluation of network protocols and sensor networks*

Lingling Fan  
Tampa, FL USA

*for contributions to stability analysis and control of inverter-based resources*

Prof. Martin Farach-Colton  
New York, NY USA

*for contributions to data structures for storage systems*

Junlan Feng  
Beijing, China

*for leadership in spoken dialog applications, AI platform, and network intelligence*

Dr. Bonnie Ferri  
Atlanta, GA USA

*for contributions to hands-on learning and leadership in higher education*

Prof. Cedric Fevotte  
Toulouse, Midi-Pyrenees, France

*for contributions to nonnegative matrix factorization, source separation, and spectral unmixing*

Dr. Alessandro Foi  
Tampere, Finland

*for contributions to image restoration and noise modeling*

Prof. Giancarlo Fortino  
Rende, Italy

*for contributions to Engineering of IoT-enabled Wearable Computing Systems*

Prof. Eric Fosler-lussier  
Columbus, OH USA

*for contributions to spoken language technology by integrating linguistic models with machine learning*

Daniel Friedman  
Yorktown Heights, NY USA

*for contributions to RFID and phase-lock-loop systems*

Prof. Xiaoming Fu  
Goettingen, Niedersachsen, Germany

*for contributions to resource management in edge computing and networking*

Ibrahim Gedeon  
Edmonton, AB Canada

*for leadership in consumer-oriented applications of broadband communications*

Apostolos Georgiadis  
The Hague, Zuid-Holland, Netherlands

*for contributions to designs of RF energy harvesting circuits*

Dr. Tobias Geyer  
Ennetbaden, Aargau, Switzerland

*for contributions to control and modulation of high-power converters*

Simon Godsill  
Cambridge, United Kingdom

*for contributions to statistical signal processing for tracking and audio restoration*

Dr. Nada Golmie  
Gaithersburg, MD USA

*for contributions to wireless technologies and standards*

Prof. Albert Guillen I Fabregas  
Cambridge, United Kingdom

*for contributions to the analysis and design of wireless communication systems*

Deniz Gunduz  
Reading, Reading, United Kingdom

*for contributions to the foundations of source-channel coding, cooperative and cache-aided communications*

Dr. Chuanxiong Guo  
Bellevue, WA USA

*for contributions to design of data center networking*

Prof. Puneet Gupta  
Los Angeles, CA USA

*for contributions to the design and co-optimization of integrated circuits*

Vijay Gupta  
Notre Dame, IN USA

*for contributions to networked and cyber-physical systems*

Prof. Edmundo Gutierrez-d.  
Tonantzintla, Puebla, Mexico

*for contributions to education and infrastructure in the field of electron devices in Latin America*

Prof. Junwei Han  
Xi'an, China

*for contributions to visual saliency detection and image understanding*

Prof. Gerhard Hancke  
Kowloon, Hong Kong

*for contributions to secure and resilient wireless technology for the Industrial Internet-of-Things*

Tony Heinz  
Stanford, CA USA

*for contributions to spectroscopic techniques, nanophotonics, and optical nanomaterials*

Jeffrey Hesler  
Charlottesville, VA USA

*for contributions to development of terahertz components and instrumentation*

Prof. Daniel Hissel  
Ronchamp, France

*for contributions to the development of hydrogen-energy systems and their industrial applications*

Torsten Hoefler  
Pfaeffikon, Switzerland

*for contributions to large-scale parallel processing systems and supercomputers*

Prof. Heath Hofmann  
Ann Arbor, MI USA

*for contributions to electric machinery and drive systems*

Dr. David Horsley  
Davis, CA USA

*for development of micro-electromechanical systems for ultrasonic transduction*

Dr. Steve Hranilovic  
Hamilton, ON Canada

*for contributions to optical wireless communication systems*

Sun-Yuan Hsieh  
Tainan, Taiwan

*for contributions to fault-tolerance for internet and cloud computing*

Guohan Hu  
Yorktown Heights, NY USA

*for contributions to Spin-Transfer-Torque MRAM materials and devices*

Qi Huang  
Chengdu, Sichuan, China

*for leadership in informatics for smart electric energy system*

Prof. Jin Hur  
Incheon, South Korea

*for contributions to design of permanent magnet synchronous motors*

Prof. Ihab Ilyas  
Waterloo, ON Canada

*for contributions to data integration, data cleaning and rank-aware query processing*

Prof. Tommaso Isernia  
Reggio Calabria, Italy

*for contributions on antennas synthesis and inverse scattering problems*

Dr. Mahesh Iyer  
Fremont, CA USA

*for leadership in ASIC and FPGA Electronic Design Automation*

Prof. Mathews Jacob  
Iowa City, IA USA

*for contributions to computational biomedical imaging*

Prof. Tseng King Jet  
Singapore, Singapore

*for contributions to permanent magnet machines and distributed energy resources*

Dr. Jack Jewell  
Boulder, CO USA

*for development of vertical-cavity surface-emitting lasers*

Prof. Yusheng Ji  
Tokyo, Japan

*for contribution to distributed computing in mobile and dynamic systems*

Prof. Jian Xun Jin  
Tianjin, China

*for development of operational high-temperature superconducting power devices*

Prof. Admela Jukan  
Braunschweig, Germany

*for contributions to optical communications and networking*

Prof. Murat Kantarcioglu  
Richardson, TX USA

*for contributions to data management and analytics*

Prof. Soumya Kar  
Pittsburgh, PA USA

*for contributions to distributed signal processing*

Stamatis Karnouskos  
Berlin, Germany

*for leadership in industrial cyber-physical systems and smart grids*

Prof. Hideki Kawahara  
Ikoma, Nara Japan

*for contributions to auditory-inspired speech signal processing and science*

Prof. Kevin Kelly  
Houston, TX USA

*for contributions to compressive imaging*

Prof. Andrew Kent  
New York, NY USA

*for contributions to the application of spin-transfer torques in nano-scale devices*

Prof. Vinod Khadkikar  
Abu Dhabi, United Arab Emirates

*for contributions to power quality solutions*

Prof. Latifur Khan  
Plano, TX USA

*for contributions to stream analytics and ontology for big data*

Prof. Aberrahmane Kheddar  
Tsukuba, Japan

*for contributions to robotic haptics and humanoids*

Robert Killey  
London, United Kingdom

*for contributions to digital signal processing for high-speed, nonlinear optical communications systems*

Prof. Chul-Hwan Kim  
Suwon, Gyeonggi-do, South Korea

*for contribution to protective relaying methods to reduce power system outages*

Dr. Jin-Woo Kim  
Fayetteville, AR USA

*for contributions to nanoscale fabrication of bio/nano-hybrid materials*

William King  
Urbana, IL USA

*for contributions to nano-scale measurements and nano-manufacturing*

Dr. John Kitching  
Boulder, CO USA

*for contribution to Chip-Scale Atomic Clock and Atomic Magnetometer*

Prof. Elisa Konofagou  
New York, NY USA

*for contributions to ultrasound for cardiovascular and cancer diagnosis, neuromodulation and brain drug delivery*

Dr. Slawomir Koziel  
Reykjavik, Iceland

*for contributions to modeling and optimization of microwave devices and circuits*

Dr. Hariharan Krishnan  
Troy, MI USA

*for contributions to connected vehicle safety systems*

Dr. Katherine Kuchenbecker  
Stuttgart, Baden-Wuerttemberg, Germany

*for contributions to interactive haptic systems and robotic touch perception*

Dr. Sarah Kurtz  
Merced, CA USA

*for contributions to photovoltaic devices and systems reliability*

Ioannis Kymissis  
New York, NY USA

*for contributions to thin-film electronics for displays and sensors*

Michael Langberg  
Buffalo, NY USA

*for contributions to the theory and practice of network coding*

Prof. Buon Kiong Lau  
Lund, Sweden

*for contributions to multi-antenna systems in wireless communications*

Kang-Won Lee  
Seoul, South Korea

*for contribution to development of SDN and virtualization technologies for 5G wireless networks*

Prof. AMIR Leshem  
Ramat-Gan, Israel

*for contributions to multi-channel and multi-agent signal processing*

Dr. Yves Letraon  
Luxembourg, Luxembourg

*for contribution to software analysis and testing*

Dr. Feifei Li  
Salt Lake City, UT USA

*for contributions to database query processing and optimization, and to cloud database systems*

Qing Li  
Kowloon, Hong Kong

*for contributions to machine learning in multimedia, data mining and data warehousing*

Prof. Zhijun Li  
Shanghai, Shanghai China

*for contributions to control systems for wearable robotics and bio-mechatronics*

Prof. Keqiu Li  
Tianjin, China

*for contributions to resource-efficient and QoS-oriented cloud computing*

Youfu Li  
Kowloon, Hong Kong

*for contributions to active visual sensing*

Prof. Yingbin Liang  
Dublin, OH USA

*for contributions to information theoretic methods for wireless systems*

Prof. Shih-Chii Liu  
Zurich, Switzerland

*for contributions to neuromorphic engineering*

Prof. Tian-Hua Liu  
Taipei, Taiwan

*for contributions to sensorless control for AC drives*

Ping Liu  
Arlington, TX USA

*for contributions to permanent magnet research and magnetic nanoparticle synthesis and characterization*

Shan Liu  
San Jose, CA USA

*for leadership in multimedia and multicore processors*

Prof. David Lo  
Singapore, Singapore

*for contributions to synergizing software engineering and data mining*

Dr. Hang-Ting Lue  
Hsinchu, Taiwan

*for contributions to charge-trapping memories and 3D NOR flash*

Prof. Robyn Lutz  
Ames, IA USA

*for contributions to software requirements for safety-critical systems*

Prof. Siwei Lyu  
Buffalo, NY USA

*for contributions to digital media forensic technologies*

Trevor Maguire  
Winnipeg, MB Canada

*for Leadership in the Development of Large Scale Real-Time Power Systems Simulators*

Roland Malhame  
Montreal, QC Canada

*for contributions to mean-field games and stochastic hybrid systems*

Dr. Shie Mannor  
Haifa, Israel

*for contributions to reinforcement learning and decision-making under uncertainty*

Prof. Zhuoqing Mao  
Ann Arbor, MI USA

*for contributions to performance and security of internet routing and mobile systems*

Prof. Ignacio Matias  
Pamplona, Navarra, Spain

*for contributions to photonic sensor research and transference to industry*

Prof. Saad Mekhilef  
Kuala Lumpur, Malaysia

*for contributions to control methods for photovoltaic systems and multi-level inverters*

Dr. Igor Mezic  
Santa Barbara, CA USA

*for contributions to modeling and control using Koopman operator techniques*

Dr. Zetian Mi  
Ann Arbor, MI USA

*for contributions to III-nitride photonics and clean energy*

Prof. Silvestro Micera  
Lausanne, Switzerland

*for contributions to restoration of human sensorimotor functions using engineered neuroprostheses*

Prof. Sudip Misra  
Kharagpur, West Bengal, India

*for contributions to intelligent sensing in constrained IoT environments*

Dr. Moriyasu Miyazaki  
Sagamihara City, Kanagawa, Japan

*for leadership in developments of airborne active-phased-array radars and satellite communication microwave subsystems*

Dr. Hiroyuki Mizuno  
Kokubunji, Tokyo, Japan

*for contributions to leakage current reduction in integrated circuits*

Dr. Apurva Mody  
Chelmsford, MA USA

*for leadership in cognitive dynamic spectrum sharing and standards*

Dr. Weibert Montlouis  
Columbia, MD USA

*for leadership in the development of radar systems*

Prof. Masato Motomura  
Yokohama, Kanagawa, Japan

*for contributions to memory-logic integration of reconfigurable chip architecture*

Dr. Debargha Mukherjee  
Mountain View, CA USA

*for leadership in standard development for video-streaming industry*

Prof. Vittorio Murino  
Genova, Italy

*for contributions to signal processing for behavior analysis*

Dr. Mukesh Nagpal  
Burnaby, BC Canada

*for contributions to economic and safe integration of distributed renewables in electric utility networks*

Prof. Babak Nahid-Mobarakeh  
Hamilton, ON Canada

*for contributions to service continuity of electric motor drive systems*

Dr. Sae Woo Nam  
Boulder, CO USA

*for pioneering development of superconducting single-photon detectors with applications to quantum communications and quantum computing*

Prof. Abdolhosein Nasiri  
Milwaukee, WI USA

*for contributions to high power converters for energy storage systems and microgrids*

Dr. Isaac Nassi  
Los Gatos, CA USA

*for leadership in parallel and distributed systems and adaptive systems*

Prof. Nassir Navab  
Garching, Bayern, Germany

*for contributions to augmented reality in medicine and computer-assisted interventions*

Dr. Krishna Nayak  
Long Beach, CA USA

*for contributions to real-time magnetic resonance imaging of the human heart and vocal tract airway*

Jerald Nesper  
Moorestown, NJ USA

*for contributions to Digital AESA Radar Systems*

Philip Neudeck  
Cleveland, OH USA

*for contributions to silicon carbide electronics and crystal growth*

Dr. Nathan Newbury  
Boulder, CO USA

*for contributions to optical frequency comb metrology*

Prof. Sam Noh  
Ulsan, South Korea

*for contributions to storage system software for flash and nonvolatile memory*

Dr. Yoshihiro Ohba  
Kawasaki, Kanagawa, Japan

*for contributions to standardization of network security protocols*

Prof. Mario Paolone  
Lausanne, Vaud, Switzerland

*for contributions to situational-awareness and control of power distribution systems*

Dr. Sung Ik Park  
Daejeon, South Korea

*for contributions to physical layer development of broadcast systems*

Prof. Gianmario Pellegrino  
Torino, Italy

*for contributions to Synchronous Reluctance machines identification and control*

Dr. Thomas Penzel  
Berlin, Germany

*for contributions to biosignal analysis for sleep medicine*

Prof. Adrian Perrig  
Zurich, Switzerland

*for contributions to network and system security*

Dr. Anh-Vu Pham  
Davis, CA USA

*for contribution to organic packaging technologies*

Gopal Pingali  
Bengaluru, Karnataka, India

*for contributions to hybrid cloud computing and real-time multimedia systems*

Prof. Joyce Poon  
Toronto, ON Canada

*for contributions to integrated photonics on silicon and resonant microphotonic devices*

Prof. Eric Pop  
Stanford, CA USA

*for contributions to phase-change memory*

Prof. Marjan Popov  
Delft, Netherlands

*for contributions to high-frequency transformer and circuit breaker modeling*

Christophe Prieur  
Grenoble, France

*for contribution to nonlinear control systems*

Prof. GuoJun Qi  
Bellevue, WA USA

*for contributions to multimedia analysis and applications*

Rajesh Rajamani  
Saint Paul, MN USA

*for contributions to vehicle control in intelligent transportation systems*

Satish Ranade  
Las Cruces, NM USA

*for contributions to integration of renewable and distributed energy resources into power systems*

Dr. Clive Randall  
University Park, PA USA

*for contributions to the formulation, processing, and characterization of electroceramics*

Prof. Arijit Raychowdhury  
Atlanta, GA USA

*for contributions to energy-efficient adaptive integrated circuit design*

Prof. Daniel Razansky  
Zurich, Switzerland

*for contributions to multispectral optoacoustic tomography*

Dr. Sorel Reisman  
Newport Beach, CA USA

*for leadership in design, implementation and adoption of open education resources*

Dr. Christopher Rodenbeck  
Annandale, VA USA

*for contributions to radar microsystems for ultrawideband and millimeter-wave applications*

Dr. Haisheng Rong  
Santa Clara, CA USA

*for contributions to silicon photonics devices*

Prof. Thomas Runkler  
Muenchen, Germany

*for contributions to computational intelligence in clustering and control*

Maryam Saeedifard  
Atlanta, GA USA

*for contributions to modulation, control and protection of multilevel converters for high-voltage DC transmission*

Tara Sainath  
Jersey City, NJ USA

*for contributions to deep learning for automatic speech recognition*

Prof. Ricardo Sanfelice  
Santa Cruz, CA USA

*for contributions to hybrid feedback control systems*

Prof. Bulent Sarlioglu  
Madison, WI USA

*for applications of electrical drives in the aerospace industry*

Mladen Sasic  
Etobicoke, ON Canada

*for contributions to development of diagnostics testing of motor and generator windings*

Dr. Tadashi Sawata  
Coventry, United Kingdom

*for contributions to motor drive systems for more electric aircraft*

Dr. Peter Seiler  
Ann Arbor, MI USA

*for contributions to robust control theory and computational tools*

Dr. Bernhard Sendhoff  
Offenbach/Main, Hessen, Germany

*for contributions to evolutionary optimization and its engineering applications*

Devavrat Shah  
Cambridge, MA USA

*for contributions to network and information science, inference and machine learning*

Prof. Shiguang Shan  
Haidian, Beijing, China

*for contributions to visual signal processing and recognition*

Prof. Heng Tao Shen  
Chengdu, Sichuan, China

*for contributions to multimedia content understanding and retrieval*

Prof. Timothy Sherwood  
Santa Barbara, CA USA

*for contributions to computer system security and performance analysis*

Steven Simske  
Fort Collins, CO USA

*for contributions to anti-counterfeiting and cyber-physical security*

Dr. Hanumant Singh  
Boston, MA USA

*for development of localization and mapping techniques and autonomous systems for marine and polar applications*

Dr. Brij Singh  
West Fargo, ND USA

*for applications of electric drive to off-road vehicles*

Kumar Sivarajan  
Bangalore, India

*for leadership in optical networking*

Prof. Florian Solzbacher  
Salt Lake City, UT USA

*for the development of tools enabling applied and translational neuroscience and neural engineering*

Dr. Narayan Srinivasa  
San Jose, CA USA

*for contributions to neural network and neuromorphic computing architectures, circuits and algorithms*

Dr. Anurag Srivastava  
Morgantown, WV USA

*for contributions to electric grid resiliency*

Prof. Thomas Stieglitz  
Freiburg, Germany

*for contributions to flexible micromachined neural interfaces and microimplants*

Dr. Mark Stiles  
Gaithersburg, MD USA

*for contributions to spintronics devices and data storage*

Dr. Ad Stoffelen  
De Bilt, Netherlands

*for contributions to satellite wind measurement missions*

Prof. S Sudarshan  
Mumbai, Maharashtra, India

*for contributions to query processing and optimization in databases*

Dr. Nobuyuki Sugii  
Tokyo, Japan

*for contributions to fully depleted silicon-on-insulator technology*

Dr. Richard Tabors  
South Dartmouth, MA USA

*for development of technologies for real-time locational pricing of electricity for efficient electric power markets*

Dr. Chuan Seng Tan  
Singapore, Singapore

*for contributions to wafer bonding technology for 3D packaging and integration*

Prof. Juan Tardos  
Zaragoza, Spain

*for contributions to simultaneous localization and mapping with visual sensors*

Daniel Tzartas  
West Hills, CA USA

*for contributions to inertial sensors and navigation systems*

Dr. Kiyohisa Terai  
Yokohama, Kanagawa, Japan

*for contribution to optical fiber sensors and electrical discharge applications*

Rajeev Thakur  
Lemont, IL USA

*for contributions to high-performance interfaces for scalable computing systems*

Prof. Yonghong Tian  
Haidian, Beijing, China

*for contributions to knowledge-based visual data analysis*

Dr. Hanghang Tong  
Champaign, IL USA

*for contributions to graph mining*

Gregg Trahey  
Durham, NC USA

*for contributions to speckle tracking and acoustic radiation force impulse imaging in medical ultrasound*

Prof. Ivor Tsang  
Sydney, New South Wales, Australia

*for contributions to large-scale machine learning and transfer learning*

Dr. Tetsuzo Ueda  
Toyonaka-Shi, Osaka, Japan

*for contributions to III-V compound semiconductor technologies*

Shambhu Upadhyaya  
Buffalo, NY USA

*for contributions to the mitigation of insider attacks and malware in cyberspace*

Elif Uysal  
Ankara, Turkey

*for pioneering contributions to energy-efficient and low latency communications*

Dr. Mikhail Vaiman  
Los Angeles, CA USA

*for contributions to methods and software for real-time analysis and control of electric power systems*

Pietro Valdastri  
Leeds, United Kingdom

*for contributions to medical capsule robots*

Prof. Mikko Valkama  
Tampere, Finland

*for contributions to physical layer signal processing in radio systems*

Prof. Daniel Van Der Weide  
Madison, WI USA

*for contributions to ultrafast terahertz electronics and biomedical applications of microwave technologies*

Dr. Frank Van Diggelen  
Carmel By The Sea, CA USA

*for contributions to assisted global navigation satellite systems for consumer applications*

Prof. Marten Van Dijk  
Den Bosch, Netherlands

*for contributions to secure processor design and encrypted computation*

Prof. Mayank Vatsa  
Jodhpur, Rajasthan, India

*for contributions to secure biometric recognition*

Ashok Veeraraghavan  
Houston, TX USA

*for contributions to computational photography and computer vision*

Dr. Peter Vetter  
Summit, NJ USA

*for leadership in broadband access technologies in advanced passive optical networks*

Dr. Emmanuel Vincent  
Villers-les-Nancy, France

*for contributions to audio source separation and challenge series methodology*

Dr. Sriram Vishwantath  
Austin, TX USA

*for contributions to information theory and coding for wireless communication systems*

Dr. Dimitris Visvikis  
Nantes Cedex, France

*for contributions to image reconstruction and analysis of positron emission tomography*

Prof. Richard Voyles  
West Lafayette, IN USA

*for leadership in the implementation of programs that foster robotics research and the robotics community*

Prof. Valeriy Vyatkin  
Espoo, Finland

*for contributions to software development methods and practices in industrial automation*

Christian Waldschmidt  
Ulm, Baden-Wuerttemberg, Germany

*for contributions to millimeter wave automotive radar sensors*

Dr. Jingdong Wang  
Beijing, China

*for contributions to visual content understanding and retrieval*

Dr. Haifeng Wang  
Beijing, China

*for contributions and leadership in natural language processing and AI technologies*

Jun Wang  
Orlando, FL USA

*for contributions to low power disk storage system design*

Dr. Guiling Wang  
Newark, NJ USA

*for contributions to distributed algorithm design for sensor networks and vehicular networks*

Dr. Yu Wang  
Beijing, China

*for contributions to domain specific accelerator design*

Dr. Ping Wang  
Toronto, ON Canada

*for contributions to radio resource allocation and performance modeling of heterogeneous wireless networks*

Qing Wang  
University Park, PA USA

*for contributions to polymer dielectrics for capacitive energy storage*

Prof. Dongmei Wang  
Atlanta, GA USA

*for contributions to biomedical informatics and AI*

Prof. Gregory Welch  
Longwood, FL USA

*for contributions to tracking methods in augmented reality applications*

Matthew Wilkowski  
Rockwall, TX USA

*for contributions to integration and productization of magnetics for power electronics*

Prof. Rebecca Willett  
Chicago, IL USA

*for contributions to the foundations of computational imaging and large-scale data science*

Andrew Wolfe  
Los Gatos, CA USA

*for contributions in hardware code compression of embedded software power consumption analysis and optimization*

Prof. Lei Wu  
Hoboken, NJ USA

*for contributions to stochastic modeling and optimization of power systems and large interdependent infrastructures*

Prof. Cathy Wu  
Newark, DE USA

*for contributions to computational biology and data science*

Dr. Peter Wurman  
Acton, MA USA

*for contributions to computational auction, multiagent systems and robotics*

Dr. Xing Xie  
Beijing, China

*for contributions to spatial data mining and recommendation systems*

Prof. Le Xie  
College Station, TX USA

*for contributions to economic and secure operations of power systems and big data analytics*

Prof. Huili Grace Xing  
Ithaca, NY USA

*for contributions to GaN high-electron-mobility transistors*

Prof. Li Xiong  
Atlanta, GA USA

*for contributions to privacy preserving and secure data sharing*

Ying Xu  
Athens, GA USA

*for contributions to knowledge discovery from biological data*

Dr. Ruqiang Yan  
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*for contributions to defect/fault detection and diagnosis of rotating machines*

Dr. Zheng Yang  
Beijing, China

*for contributions to wireless localization and sensing*

Dr. Guang-Hong Yang  
Shenyang, Liaoning, China

*for contributions to fault tolerant control of dynamical systems*

Dr. Zhiping Yang  
Campbell, CA USA

*for contributions to signal and power integrity in high-performance data center electronics*

Ruigang Yang  
Lexington, KY USA

*for contributions to 3D computer vision and autonomous driving*

Prof. Chunhua Yang  
Changsha, Hunan, China

*for contributions in intelligent control and optimization of complex industrial processes*

Prof. Jianhua Yang  
Los Angeles, CA USA

*for contributions to resistive switching materials in memory and neuromorphic computing*

Prof. Liangzhong Yao  
Wuhan, Hubei, China

*for leadership in HVDC grid supporting integration of large wind farms*

Dr. Xiaoning Ye  
Portland, OR USA

*for contributions to high-speed interconnect design, optimization, and measurement methods*

Prof. Lei Ying  
Ann Arbor, MI USA

*for contributions to resource allocation in cloud computing systems and wireless networks*

Prof. Euisik Yoon  
Ann Arbor, MI USA

*for contributions to bio-microelectromechanical systems (BioMEMS) technologies for opto-electrical neural interfaces and microfluidic biochips*

Prof. Mohamed Younis  
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*for contributions to protocols, architecture, and analysis of multi-hop wireless networks*

Prof. Jiguo Yu  
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*for contributions to data storage and processing in cloud and social environments*

Prof. Sandro Zampieri  
Padova, Italy

*for contributions to distributed and networked control*

Prof. Carl Zetterling  
Kista, Sweden

*for contributions to silicon carbide devices*

Prof. Xiuyin Zhang  
Guangzhou, Guangdong, China

*for contributions to the design of filtering antennas*

Dr. Jun Zhang  
Sai Kung, Hong Kong

*for contributions to dense wireless networks*

Dr. Liang Zhang  
Ottawa, ON Canada

*for contributions to non-orthogonal multiplexing technology in terrestrial broadcast and broadband systems*

Prof. Guoying Zhao  
Oulu, Finland

*for contributions to facial expression analysis and feature representation*

Dr. Yefeng Zheng  
Shenzhen, Guangdong, China

*for contributions to machine learning for medical imaging*

Zhangdui Zhong  
Beijing, China

*for contributions to theory, technology and development of mobile communications for railways*

Prof. Anding Zhu  
Dublin, Ireland

*for contributions to behavioral modeling and digital predistortion of RF power amplifiers*

Dr. Jiang Zhu  
Cupertino, CA USA

*for contributions to antenna design for wireless communications*

Prof. Gil Zussman  
New York, NY USA

*for contributions to the design of wireless network systems*