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for contributions to wireless channel modeling and underwater communications

Karim Abed-Meraim for contributions to blind system identification and source separation for communications

Edward Adelson for contributions to image representation and analysis in computer vision

Sonia Aissa for contributions to design and performance analysis of cognitive radio and cooperative communication systems

J .Stewart Aitchison for contributions to nonlinear optical devices and point-of-care testing systems

Elad Alon for contributions to mixed-signal integrated circuit design and methodology

Max Ammann for contributions to compact antennas for wideband wireless applications

Leopoldo Angrisani for contributions to test and measurement of communication systems

Yoshihiro Baba for contributions to electromagnetic modeling of lightning

Michael Backes for contributions to computer security and privacy

Matthias Bauer for contributions to growth technologies for alloys for transistors

Navakanta Bhat for contributions to electrochemical biosensors in nanoelectronic devices

William Blackwell for contributions to atmospheric remote sensing algorithms and instrumentation

Pierre Blondy for contributions to radio frequency micro electromechanical systems

Iustin Radu Bojoi for contributions to control of electrical drives and power electronics

Silverio Bolognani for contributions to permanent magnet synchronous motor technology

Gabriella Bosco for contributions to modeling and design of coherent optical communication systems

Jill M. Boyce for contributions to video coding

Lucien Breems for contributions to over-sampled converters using complementary metal-oxide-semiconductor technology

Olav Breinbjerg for leadership in spherical near-field antenna measurements

Michael Bronstein for contributions to acquisition, processing, and analysis of geometric data

Walter Buchanan for leadership in accreditation activities of engineering technology programs

Steven Butler for technical leadership in aerospace systems

Bruce Campbell for contributions to radar remote sensing for planetary science

Richard Campbell for contributions to millimeter and terahertz wafer-probe technology

Hui Cao for contributions to spatial coherence engineering of lasers

Antonio Capone for contributions to the design and resource management of wireless and Internet Protocol networks

Richard Carson for contributions to quantitative positron emission tomography

Friedhelm Caspers for contributions to charged particle accelerators

David Castañón for contributions to discrete-time stochastic control and information fusion

Mujdat Cetin for contributions to image processing for synthetic aperture radar and sensor array

Meng-Fan Chang for contributions to static and nonvolatile memories for embedded systems

Patrick Chapman for application of power electronics devices and systems for solar energy conversion

Deming Chen for contributions to field-programmable gate array high-level synthesis

Jie Chen

for contributions to optimization and control of complex systems

Jiming Chen

for contributions to resource allocation and optimization in wireless sensor networks

Xing Bi Chen

for contributions to power super-junction metal-oxide-semiconductor field-effect transistors

Z. Chen

for contributions to power electronics for wind energy conversion

Kangguo Cheng

for contributions to fully depleted Silicon-on-Insulator Complementary Metal-Oxide Semiconductor process technology

Kin Ping Cheung for contributions to plasma process-induced damage in integrated circuits

Pei-Yu Chiou *for contributions to optofluidics for high throughput single cell manipulation*

Hyouk Ryeol Choi for contributions to robotic interactive sensing

Jong Choi for contributions to debugging and compilers for parallel computing

Sewan Choi for contributions to power converter technologies

Paul Chow for contributions to the programmability of field-programmable gate array based computing

Tommy Chow for contributions to computational intelligence techniques for control systems diagnosis

Qing-Xin Chu for contributions to compact wideband antennas

Brian Classon for contributions to commercial cellular system standardization

Peter Clout for leadership in data acquisition and control in nuclear and plasma sciences

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Michael Condry for leadership in the development of semiconductor and computing technologies

Jose Luis Contreras for contributions to brain-machine interfaces and wearable exoskeletons

Kerstin Dautenhahn for contributions to social robotics and human-robot interaction

Timothy Davidson for contributions to optimization of signal processing and communication systems

Bart De Schutter for contributions to optimal control of discrete-event and hybrid systems

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Xiaotie Deng for contributions to computing in partial information and interactive environments

Tayeb Denidni *for contributions to frequency selective surfaces and their application to reconfigurable antennas*

Santosh Devasia for contributions to feedforward control of nonminimum-phase systems

Thomas Dionise for contributions to mitigation of transients and harmonics in power systems

Antun Domic *for technical leadership in the integrated circuits design automation*

David Dorrell *for contributions to time efficient design methodology of rotating electrical machines*

Robert Durham for contributions to submersible electrical equipment analysis and multi-point ground methods in hazardous petroleum and chemical environments

Nicola Elia for contributions to networked control systems

Christian Enz for contributions to low-power analog circuit design

Meng Hwa Er for contributions to electronic engineering education

Joseph Evans for contributions to cognitive networks and deployment of defense networks

Jiyuan Fan for leadership in applications for power distribution systems

Xuejun Fan for contributions to the modeling and characterization of electronic packaging design

Luca Fanucci for the contributions to the design of Very-large-scale integration systems for network-on-chip

Dejan Filipovic *for contributions to frequency-independent and wideband antennas*

Robert Fish for application of visual communications and networking

Dimitrios Fotiadis for contributions to modelling and machine learning in biomedical data processing

Mark Fox for contributions to constraint-directed reasoning and ontologies

Emilio Frazzoli for contributions to motion planning and control of autonomous vehicles

Emilia Fridman for contributions to time-delay systems and sampled-data control

Yun Fu for contributions to manifold learning and face and gesture recognition

Claudio Fuerte-Esquivel for contributions to modeling, analysis and operation of Flexible Alternating Current Transmission Systems

Christophe Fumeaux for contributions to resonant dielectric-loaded antennas

Alexander Gaeta for contributions to quantum and nonlinear photonics

Jianfeng Gao for contributions to machine learning for Web search and natural language processing

Kaizhong Gao for contributions to data storage technologies

Shichang Gao for contributions to low-cost pattern-reconfigurable and broadband printed antennas

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Guido Gerig for contributions to medical image processing

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Xiaodong He for contributions to multimodal signal processing in human language and vision technologies

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Pin-Han Ho for contributions to failure restoration in optical backbone networks

Steven Chu-Hong Hoi for contributions to machine learning for multimedia information retrieval and scalable data analytics

Keum-Shik Hong for contributions to adaptive estimation and brain-computer interface techniques

Zeng-Guang Hou

for contributions to neural network optimization and control for rehabilitation

Gang Hua for contributions to facial recognition in images and videos

Tingwen Huang for contributions to dynamical analysis of neural networks

Mei-Yuh Hwang for contributions to speech and language technology

Daniele Ielmini for contributions to nonvolatile semiconductor memories

Syed Islam for contributions to wind energy conversion systems

Hiroshi Ito for contributions to high-speed photodiodes for millimeter and terahertz wave generation

Hans-Arno Jacobsen for contributions to publish subscribe and event processing

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Mona Jarrahi for contributions to terahertz technology and microwave photonics

Lijun Jiang for contributions to broadband computational electromagnetic methods

Tao Jiang for contributions to coding, modulation, and cognitive radio systems design

Hai Jin for contributions to peer-to-peer and cloud computing systems

Mihalo Jovanovic for contributions to modeling, optimization, and control of large-scale distributed systems

Chia-Feng Juang for contributions to data-driven fuzzy systems

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Chih-Huang Lai for contributions to magnetic information storage and spintronic devices

Roger Lake for contributions to quantum mechanical electronic device modeling

Mark Lantz for contributions to digital magnetic tape recording

Patrick Lecallet *for contributions to perceptual optimization of video signal processing*

Jaejin Lee for contributions to programming systems of heterogeneous machines

Juho Lee for leadership in standardization of cellular communication technologies

Seung Jae Lee for contributions to power distribution protection and automation

Frank Leferink *for leadership in electromagnetic compatibility measurement techniques*

Chih-Peng Li for contributions to digital broadcasting and wireless transmission

Hai Li for contributions to neuromorphic computing systems

Hongbin Li for contributions to adaptive radar signal processing with limited data

Qi Li for contributions in speech signal processing and speaker authentication

Shutao Li for contributions to image fusion and classification in remote sensing

Yonghui Li for contributions to cooperative communications technologies

C. Steven Lingafelt *for leadership in cybersecurity education and practice*

Alex Liu for contributions to firewall design and analysis

Jinjun Liu for contributions to modeling and control of power systems

Shaoying Liu for contributions to the design of Structured Object-Oriented Formal Language

Xiaoping Liu for contributions to system identification and networked teleoperation

Xin Liu for contributions to the design of cross-layer resource allocation algorithms for cellular and cognitive radio networks

Teng Long for contributions to high resolution radar systems

Cristina Lopes for contributions to ubiquitous and immersive programming

Marco Lops for contributions to radar target detection and estimation in clutter

Anant Madabhushi for contributions in image analysis tools for diagnosis and prognosis of diseases

Pui-In Mak for contributions to radio-frequency and analog circuits

John Malinowski *for contributions to motor efficiency manufacturing regulations and standards*

Shiwen Mao for contributions to wireless multimedia networking

Charles Mc Shane for leadership in safety, performance, and sustainability of power transformers

Dale McMorrow for contributions to laser-based methodologies for simulating single-event effects in digital devices

Derek McNamara for contributions to antenna synthesis and engineering

Neelesh Mehta *for contributions to opportunistic selection in wireless communication systems*

Tao Mei for contributions to multimedia analysis and applications

Erik Meijering *for contributions to computational methods for biological image analysis*

Tim Menzies *for contributions to software engineering for artificial intelligence*

Bruno Michel *for contributions to energy efficiency for computers and solar systems*

Miroslav Micovic *for contributions to gallium nitride electronics*

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Theodore Moise *for contributions to ferroelectric memory development and engineering*

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Jason Nieh for contributions to virtualization, scheduling, and mobile computing

Anibal Ollero Baturone for contributions to the development and deployment of aerial robots

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Evangelos Papadopoulos for contributions to space and field robotics

Milorad Papic for contributions to probabilistic planning methods to mitigate cascading of the bulk power system

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Jan Peters for contributions to robot learning of dexterous motor skills

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Alessandro Piva for contributions to multimedia security

Maurizio Porfiri for contributions to biomimetic robotics

Yi Qian for contributions to wireless communication networks and smart grid communication architectures

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Siddharth Ramachandran for contributions to higher-order modes in optical fibers

Srinivasan Ramani for contributions to computer networks for developing countries

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Stewart Rauch for contributions to microelectronics reliability

Gerhard Rigoll for contributions to multimodal human-machine communication

Robert Rohling for contributions to ultrasound for medical diagnosis and intervention

Joachim Rosenthal for contributions to algebraic coding theory and cryptography

Matthew Roughan for contributions to Internet measurement and analysis

Romit Roy Choudhury for contributions to wireless network protocols and indoor localization

Amit Roy-Chowdhury for contributions to video-based tracking and behavior analysis

Dan Rubenstein for contributions to massively distributed networked systems

Stuart Rubin for contributions to computational intelligence

Roland Ryf for contributions to optical switching and multiplexing technology

Walid Saad for contributions to distributed optimization in cooperative and heterogeneous wireless systems

Rajiv Sabherwal for contributions to research on management of knowledge and information technologies

Samar Saha for contributions to compact modeling of silicon field-effect transistors

Tapan Saha for contributions to monitoring and assessment of power transformers

Sayeef Salahuddin for contributions to low power electronic and spintronic devices

Murti Salapaka for application of control and systems technology in nano-science

Venkatesh Saligrama for contributions to distributed detection and estimation of structured signals

Igal Sason for contributions to the gaussian interference channel

Andries Scholten for contributions to noise and radio frequency modeling of semiconductor devices

Venkat Selvamanickam for contributions to development and manufacturing of superconductor tapes

Kyuseok Shim for contributions to scalable data mining and database query processing

Mei-Ling Shyu for contributions to multimedia big data analytics and management

Ramesh Sitaraman *for contributions to content delivery, internet performance, and distributed systems*

Mikael Skoglund for contributions to source-channel coding and wireless communications

Dawn Song for contributions to systems security and privacy

Lingyang Song for contributions to cooperative communication and networking

Maarten Steinbuch for contributions to motion control and mechatronics

Christoph Stiller for contributions to machine vision for automated driving

Fuchun Sun for contributions to neural network control of nonlinear systems with applications to robotic manipulators

Jonathan Sun for contributions to spin-transfer-torque magnetic random access memory

Yan Sun for contributions to trust modeling and statistical signal processing for cyber-physical security

Kenji Sunagawa for contributions to cardiovascular mechanics, baroreflex dynamics, and bionic cardiology applications

Bruce Suter for contributions to data acquisition for aerospace sensory information systems

Jonathan Sykes

for leadership in the application and management of reliable protection systems for electric power networks

Mario Sznaier for contributions to identification of switched systems and multiobjective control

Joseph Tabrikian *for contributions to estimation theory and Multiple Input Multiple Output radars*

Munehiro Tada for contributions to copper interconnects for very-large-scale integration

Seishi Takamura for application of video coding

HarkHoe Tan for contributions to compound semiconductor optoelectronic materials and devices

Yap-Peng Tan for contributions to visual data analysis and processing

Chi-Keung Tang for contributions to interactive segmentation algorithms in computer graphics applications

Jian Tang for contributions to optimization in wireless networks and mobile crowdsourcing systems

Meixia Tao for contributions to resource allocation in broadband wireless networks

Jan-Ulrich Thiele for contributions to magnetic recording

Ioannis Tomkos for contributions to dynamic optical networks

Carme Torras for contributions to learning algorithms for robot perception, planning and manipulation

David Torrey for contributions to modeling, design, and control of electric machines and drives

Piero Tortoli for contributions to ultrasound signal processing hardware and algorithms

Jean-Yves Tourneret for contributions to statistical signal and image analysis

Hon Tsang *for contributions to nonlinear silicon photonics and advanced waveguide grating couplers*

Panagiotis Tsiotras for contributions to nonlinear control of aerospace systems

Zhuowen Tu for contributions to computer vision, medical imaging, and deep learning

Deepak Uttamchandani for contributions to photonics-based sensing

Murat Uysal for contributions to cooperative and diversity techniques in wireless and optical communications

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Paul Vanoorschot for contributions to applied cryptography and authentication

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Namrata Vaswani for contributions to dynamic structured high-dimensional data recovery

Jelena Vuckovic for contributions to experimental nano and quantum photonics

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Liang Wang for contributions to video-based human identification and motion analysis

Shuo Wang for contributions to reduction of electromagnetic interference in electronic systems

Xiaofeng Wang for contributions to system security and genomic privacy

Yuanxun Wang for contributions to time-varying and nonlinear electromagnetic devices and systems

Simon Warfield for contributions to medical imaging

ShaoJun Wei for leadership in Integrated Circuits engineering of smart cards and reconfigurable devices

John Turner Whitted *for contributions to computer graphics*

Chee Wei Wong for contributions to silicon nanophotonics

Robert Wood for contributions to small-scale and soft robotics

Guangning Wu for contributions to traction power supply equipment diagnostics for high-speed electrified railways

Min Wu

for contribution to control and automation for complex systems

Naiqi Wu for contributions to discrete-event production systems

Zhaohui Wu for contributions to intelligent service computing

Shengli Xie for contributions to blind source separation and its applications

Eric Xing for contributions to machine learning algorithms and systems

Zeshui Xu for contributions to decision-making methodologies

Fan Yang for contributions to surface electromagnetics for antennas

Ming-Hsuan Yang for contributions to object tracking and face recognition

Xiaokang Yang for contributions to perceptual modeling and processing of visual signals

Steve Yao for leadership in opto-electronic oscillator and optical polarization devices

Hiroto Yasuura for contributions to energy-efficiency and dependability of Very Large Scale Integration designs

Minerva Yeung for leadership in multimedia signal processing

Eiichi Yoshida for leadership in the development of modular reconfigurable robotic systems

Marwan Younis for contributions to digital beam-forming techniques for spaceborne radar systems

Moustafa Youssef for contributions to wireless location tracking technologies

Yizhou Yu for contributions to geometric and image-based modeling

Pericle Zanchetta for contributions to the control of complex power electronics systems

Jared Zerbe for contributions to the development of high performance serial interfaces

Bao-Hui Zhang for contributions to power system transient stability prediction

Cha Zhang for contributions to machine learning for image and video data processing

Daqing Zhang for contributions to context-aware mobile and pervasive systems

Liangpei Zhang for contributions to image processing of remote sensing data

Mengjie Zhang *for contributions to evolutionary learning and optimization methodologies*

Ping Zhang for leadership in theory, standardization, and application of wireless technologies

Richard Zhang for leadership in development of power electronic converters

Yanchao Zhang for contributions to wireless and mobile security

Yimin D. Zhang for contributions to high-resolution direction finding and radar signal processing

Weisheng Zhao for contributions to spintronic integrated circuit design

Lin Zhong for contributions to the development of energy-efficient driver circuits for organic light-emitting diodes

Donghua Zhou

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Jingren Zhou for contributions to cloud computing and query processing

Lidong Zhou for contributions to trusted distributed computing

Qifa Zhou for contributions to medical ultrasound transducers and multimodal imaging

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