Patrice Abry CNRS & Ecole Normale Suprieure de Lyon Lyon Cedex 07, France

for contributions to the theory and applications of fractal and multifractal analysis in signal and image processing

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for contributions to analog and digital signal processing

Rambabu Adapa Electric Power Research Institute (EPRI) Palo Alto, CA, USA

for leadership in DC and flexible AC transmission systems

Hojjat Adeli The Ohio State University Columbus, OH, USA

for contributions to computational intelligence in infrastructure engineering

Anant Kumar Agarwal Cree Inc. Chapel Hill, NC, USA

for contributions to silicon carbide power device technology

Dakshi Agrawal IBM Thomas J. Watson Research Center Hawthorne, NY, USA

for contributions to theory, analysis, and design of efficient, secure, and privacy-preserving communication systems

Divyakant Agrawal University of California, Santa Barbara Santa Barbara, CA, USA

for contributions to large-scale data management in distributed and networked systems

Yucel Altunbasak Georgia Institute of Technology Atlanta, GA, USA

for contributions to super-resolution imaging, color filter array interpolation, and error-resilient video communications

Ajith Amerasekera Texas Instruments Inc. Dallas, TX, USA

for leadership in semiconductor innovation and contributions to circuit design

James Hampton Anderson University of North Carolina at Chapel Hill Chapel Hill, NC, USA

for contributions to the implementation of soft-real-time systems on multiprocessor and multicore platforms

Thomas Marbory Antonsen University of Maryland Potomac, MD, USA

for contributions to the theory of magnetically confined plasmas, laser-plasma interactions and high power coherent radiation sources

Carlos A. Araujo University of Colorado at Colorado Springs Colorado Springs, CO, USA

for contributions to the field of ferroelectric nonvolatile memories

Murat Arcak University of California, Berkeley Berkeley, CA, USA

for contributions to theory and application of nonlinear observer design and the passivity approach to control of distributed systems

Erdal Arikan Bilkent University Ankara, Bilkent, Turkey

for contributions to coding theory

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for leadership in architecture and protocols for the electric grid and telecommunication networks

Masahiro Asada Tokyo Institute of Technology Tokyo, Japan

for contributions to semiconductor laser theory and terahertz devices

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for contributions to the development technologies for electrical safety

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for contributions to real-time computing applications

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for contributions to convex optimization in control systems

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for contributions to machine learning and its applications in the life sciences

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for contributions to modeling and design of nanoscale integrated circuit interconnects

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for contributions to signal and image processing for multimedia security

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for contributions to high intensity laser matter interactions and pulsed power pinches

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for contributions to adaptive and low power circuit design

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for fundamental contributions to approximation theory in signal and image processing

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for contributions to analysis of magnetic materials and AC electrical machines

Jozsef Bokor Hungarian Academy of Science Budapest, Hungary

for contributions to system identification and multivariable control system design

Martin Bossert Ulm University Ulm, Germany

for contributions to reliable data transmission including code constructions and soft decision decoding

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for contributions to automated network and service management methodologies and applications

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for contributions to internet topology and active networks

Eduardo F. Camacho University of Seville Sevilla, Spain

for contributions to model predictive control and advanced control of solar systems

Marco Claudio Campi University of Brescia Brescia, Italy

for contributions to stochastic and randomized methods in systems and control

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for contributions to the understanding of noise and fluctuation phenomena in solid-state devices

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for contributions to low power embedded system design and to very large scale integration architectures for signal processing

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for contributions to system-level power characterization, including thermal management

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for contributions to data fusion and image processing for remote sensing

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for contributions to infrared detectors and high-k gate dielectrics

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for contributions to medical image analysis and computer vision

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for contributions to the analysis, control and applications of nonlinear systems and complex networks

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for contributions to semiconductor optical devices for transoceanic optical undersea cable systems

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for contributions to neuro-fuzzy and hybrid approaches in pattern recognition

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for contributions to cross-layer resource allocation algorithms for wireless, satellite, and optical networks

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for contributions to robot audition technology

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for contributions to nonlinear vectorial measurement-based experimental design and modeling

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