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

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for contributions to model-based coding and multimedia lifelogging

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for contributions to reliable distributed systems

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for leadership in smart grids and security of critical infrastructures

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_for contributions to design methods and tools for multiprocessor systems on chip_

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_for contributions to augmented reality_

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_for contributions to vehicular networking and mobility modeling_

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for leadership in knowledge-aided radar systems for indoor environments

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for contributions in nonlinear signal processing

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for contributions to design and control of chemical and biomedical systems
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for contributions to nanofabrication and nanomanufacturing in the sub-10 nm regime

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for contributions to radar waveform diversity and design

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for contributions to system design for neuromorphic chip

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for contributions to the theory and application of model predictive control

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for leadership in increasing student interest in STEM education

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for leadership in data converters and mixed-signal circuits
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for contributions to design of nanoscale biological CMOS sensors

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

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for contributions to multimedia data and disaster information management

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for contributions to power system stability and control

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for contributions to industrial cyber-physical systems

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for leadership in imaging for healthcare applications

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

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for contributions to carbon nanomaterial processing methods and devices

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_for contributions to resource management for embedded systems_

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_for contributions to gate, interconnect, and clock network optimization in VLSI circuits_

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for contributions to the design and control of biped robots

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for contributions to modeling and packaging of microsensors and microactuators

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

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_for contributions to III-V light emitter technology_

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_for contributions to filter structure, data hiding, and multimedia security_

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_for contributions to sensors and instrumentation for high-speed imaging applications_

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_for contributions to the development of wide bandgap semiconductor laser diodes and ultraviolet LEDs_

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_for contributions to theory, simulation and software development for industrial plasma_

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for leadership and contributions in communication systems and signal processing

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for contributions to adaptive real-time computing systems
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for leadership in microwave electronics and RFIC applications

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for contributions to block transmissions over wireless fading channels

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for contributions to large generator insulation systems and generator failure mechanisms

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

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for contributions to haptics and multi-fingered robotic hands
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for contributions to nanophotonic devices

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

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for contributions to SAR tomography and airborne multi-band SAR

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Wei Ren
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for contributions to visual-inertial navigation and cooperative localization

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