



2017 IEEE MEDALS AND RECOGNITIONS RECIPIENTS AND CITATIONS

1. [**IEEE MEDAL OF HONOR**](#), for an exceptional contribution or an extraordinary career in IEEE fields of interest, sponsored by the *IEEE Foundation*, to

Recipient

KEES SCHOUHAMER IMMINK (LFIEEE)—President, Turing Machines, Inc., Rotterdam, The Netherlands

Citation

"For pioneering contributions to video, audio, and data recording technology, including compact disc, DVD, and Blu-ray."

2. [**IEEE ALEXANDER GRAHAM BELL MEDAL**](#), for exceptional contributions to communications and networking sciences and engineering, sponsored by *Nokia Bell Labs*, to

Recipient

H. VINCENT POOR (LFIEEE)—Michael Henry Strater University Professor of Electrical Engineering, Princeton University, Princeton, NJ, USA

Citation

"For fundamental contributions to signal processing and its application to digital communications."

3. [**IEEE EDISON MEDAL**](#), for a career of meritorious achievement in electrical science, electrical engineering, or the electrical arts, sponsored by *Samsung Electronics Co., Ltd.*, to

Recipient

M. GEORGE CRAFORD (LFIEEE)—Solid State Lighting Fellow, Lumileds LLC, San Jose, California, USA

Citation

"For a lifetime of pioneering contributions to the development and commercialization of visible LED materials and devices."

4. [**IEEE MEDAL FOR ENVIRONMENTAL AND SAFETY TECHNOLOGIES**](#), for outstanding accomplishments in the application of technology in the fields of interest of IEEE that improve the environment and/or public safety, sponsored by *Toyota Motor Corporation*, to

Recipient

ALBERTO BROGGI (FIEEE)—Full Professor, University of Parma and General Manager, VisLab, Parma, Italy

Citation

“For leadership in vehicular environmental perception, and for setting worldwide milestones in safe and reliable intelligent vehicles.”

5. [IEEE FOUNDERS MEDAL](#), for outstanding contributions in the leadership, planning, and administration of affairs of great value to the electrical and electronics engineering profession, sponsored by the *IEEE Foundation*, to

Recipient

TAKEO KANADE (LFIEEE)—U. A. and Helen Whitaker Professor, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

Citation

“For pioneering and seminal contributions to computer vision and robotics for automotive safety, facial recognition, virtual reality, and medical robotics.”

6. [IEEE RICHARD W. HAMMING MEDAL](#), for exceptional contributions to information sciences, systems, and technology, sponsored by *Qualcomm, Inc.*, to

Recipient

SHLOMO SHAMAI (FIEEE)—Distinguished Professor, The Andrew & Erna Viterbi Faculty of Electrical Engineering, Technion-Israel Institute of Technology, Haifa, Israel

Citation

“For fundamental contributions to information theory and wireless communications.”

7. [IEEE MEDAL FOR INNOVATIONS IN HEALTHCARE TECHNOLOGY](#), for exceptional contributions to technologies and applications benefitting healthcare, medicine, and the health sciences, sponsored by the *IEEE Engineering in Medicine and Biology Society*, to

Recipient

YULUN WANG (non-member)—Chairman and Founder, InTouch Health, Goleta, California, USA

Citation

“For pioneering contributions to remotely operated surgical robots and telemedicine devices.”

8. [IEEE JACK S. KILBY SIGNAL PROCESSING MEDAL](#), for outstanding achievements in signal processing, sponsored by *Texas Instruments, Inc.*, to

Recipient

MARTIN VETTERLI (FIEEE)—President and Professor, School of Computer and Communications Sciences, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

Citation

“For fundamental contributions to advanced sampling, signal representations, and multirate and multiresolution signal processing.”

9. IEEE JAMES H. MULLIGAN, JR. EDUCATION MEDAL, for a career of outstanding contributions to education in the fields of interest of IEEE, sponsored by *MathWorks, Pearson, and the IEEE Life Members Fund*, to

Recipient

STEPHEN P. BOYD (FIEEE)—Samsung Professor in the School of Engineering; Professor, Department of Electrical Engineering; Professor (by courtesy), Department of Management Science and Engineering; Professor (by courtesy), Department of Computer Science Engineering, Stanford University, Stanford, California, USA

Citation

“For inspirational education of students and researchers in the theory and application of optimization.”

10. IEEE JUN-ICHI NISHIZAWA MEDAL, for outstanding contributions to material and device science and technology, including practical application, sponsored by *The Federation of Electric Power Companies, Japan*, to

Co-Recipients

CHING W. TANG (non-member)—Professor, Hong Kong University of Science and Technology, Kowloon, Hong Kong and Professor, University of Rochester, Rochester, NY, USA

AND

STEPHEN R. FORREST (LFIEEE)—Peter A. Franken Distinguished University Professor and Paul G. Goebel Professor of Engineering at the University of Michigan, Ann Arbor, Michigan, USA.

AND

MARK E. THOMPSON (non-member)—Ray R. Irani Chair of Chemistry, Materials Science, and Chemical Engineering at the University of Southern California, Los Angeles, CA, USA

Citation

“For their pioneering work on organic devices, leading to organic light-emitting diode displays.”

11. [IEEE ROBERT N. NOYCE MEDAL](#), for exceptional contributions to the microelectronics industry, sponsored by *Intel Foundation*, to

Recipient

HENRY I. SMITH (LFIEEE)—Professor Emeritus, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA

Citation

“For contributions to lithography and nanopatterning through experimental advances in short-wavelength exposure systems and attenuated phase-shift masks.”

12. [IEEE DENNIS J. PICARD MEDAL FOR RADAR TECHNOLOGIES AND APPLICATIONS](#), for outstanding accomplishments in advancing the fields of radar technologies and their applications, sponsored by *Raytheon Company*, to

HUGH GRIFFITHS (FIEEE)—Professor, THALES/ Royal Academy of Engineering Chair of RF Sensors, University College London, London, United Kingdom

Citation

“For technical leadership and exceptional contributions to multistatic radar.”

13. [IEEE MEDAL IN POWER ENGINEERING](#), for outstanding contributions to the technology associated with the generation, transmission, distribution, application, and utilization of electric power for the betterment of society, sponsored by the *IEEE Industry Applications, Industrial Electronics, Power Electronics, and Power & Energy Societies*, to

Recipient

MARIAN P. KAZMIERKOWSKI (LFIEEE)—Full Professor, Institute of Control and Industrial Electronics, Warsaw University of Technology, Warsaw, Poland

Citation

“For leadership in and pioneering contributions to the development of power electronic converters and electric drive control systems.”

14. [IEEE SIMON RAMO MEDAL](#), for exceptional achievement in systems engineering and systems science, sponsored by *Northrop Grumman Corporation*, to

Recipient

JOHN S. BARAS (LFIEEE)—Professor, University of Maryland, College Park, Maryland, USA

Citation

“For exceptional contributions to the conception and commercialization of internet-over-satellite systems, and for leadership in model-based engineering, systems science, and engineering research.”

15. [IEEE JOHN VON NEUMANN MEDAL](#), for outstanding achievements in computer-related science and technology, sponsored by *IBM Corporation*, to

Recipient

VLADIMIR VAPNIK (non-member)—Professor, Department of Computer Science, Columbia University, New York, New York, USA, and Facebook AI Research Consultant, Menlo Park, California, USA

Citation

“For the development of statistical learning theory, the theoretical foundations for machine learning, and support vector machines.”

16. [IEEE CORPORATE INNOVATION AWARD](#), for an outstanding innovation by an organization in an IEEE field of interest, sponsored by *IEEE*, to

Recipient

ANALOG DEVICES, INC.—Norwood, Massachusetts, USA

Citation

“For sustained innovation and leadership in the development of high-performance data converter technology and products.”

17. [IEEE RICHARD M. EMBERSON AWARD](#), for distinguished service advancing the technical objectives of the IEEE, sponsored by the *IEEE Technical Activities Board*, to

Recipient

DAVID A. HODGES (LFIEEE)—Professor Emeritus (Retired), University of California Berkeley, Berkeley, California, USA

Citation

“For effective leadership in advancing IEEE's goals for excellence in publications, conferences, and awards.”

18. [IEEE HARADEN PRATT AWARD](#), for outstanding volunteer service to the IEEE, sponsored by the *IEEE Foundation*, to

Recipient

JOHN T. BARR, IV (LFIEEE)—Research and Development Manager/Director (Retired), Agilent Technologies/Hewlett-Packard, Santa Rosa, California, USA

Citation

“For sustained leadership and service across IEEE and Society levels.”

- 19. [IEEE HONORARY MEMBERSHIP](#)**, elected by the IEEE Board of Directors from among those who have rendered meritorious service to humanity in the IEEE's designated fields of interest and who are not members of the IEEE, sponsored by *IEEE*, to

Recipient

SIR JAMES DYSON (non-member)—Founder and Chief Engineer, Dyson Company, Wiltshire, United Kingdom

Citation

“For achievements in industrial design, entrepreneurship, and manufacturing technology, and for services to the engineering profession.”