

IEEE Awards

Recognizing Technical Excellence, Leadership and Service

Vincenzo Piuri, IEEE Technical Field Awards Council Chair

Matej Zajc, IEEE R8 Chapters Coordination Subcommittee Chair

March 2019

Mission

Celebrate technological, leadership and service triumphs in our fields and the people who make them, to inspire future generations of innovators and innovations



IEEE Awards

IEEE Board-level Awards

IEEE EAB-level Awards

IEEE MGA-level Awards

IEEE Region-level Awards

IEEE Section/Regional Council Level Awards

IEEE TAB-level Awards

IEEE Societies/Technical Council Level Awards

Diversity Is Important

Submit nominations from underrepresented groups



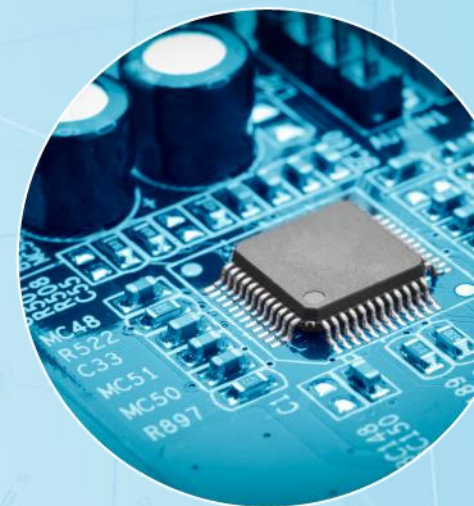
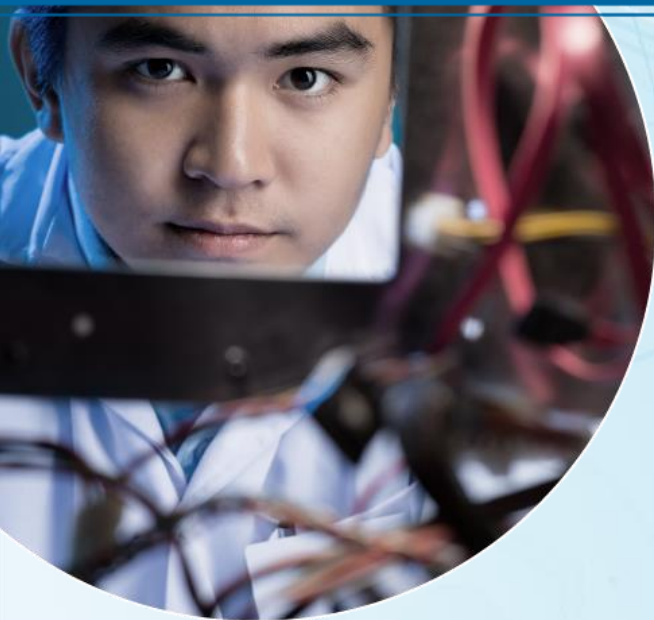
IEEE
Awards



DIVERSITY STATEMENT



IEEE awards recognize exceptional contributions to all IEEE fields of interest (technical and nontechnical) made by organizations and individuals regardless of nationality, gender, age, religion, ethnic background, or other personal characteristics not related to ability, performance, or qualifications. The IEEE Awards Program is committed to pursuing diversity in all its operations to help realize and maintain fair nomination and selection processes without bias or discrimination.



IEEE Board-level Awards

Administered by the IEEE Awards Board

IEEE Board-Level Award Categories



Medals

- IEEE's highest technical awards
- Recognize achievements and leadership in significant and broad IEEE areas
- <https://www.ieee.org/about/awards/medals>
- 15 June nomination deadline

Technical Field Awards (TFAs)

- Recognize technical contributions or leadership in specific field of interest of the IEEE
- <https://www.ieee.org/about/awards/technical-field-awards>
- 15 January nomination deadline

Recognitions

- Awarded for corporate innovations, service to IEEE, professional leadership
- <https://www.ieee.org/about/awards/recognitions>
- 15 June nomination deadline

IEEE Awards Board



- ▶ Administers the IEEE Board-level awards
- ▶ Overviews the selection process for the various IEEE Board-level awards
- ▶ Endorses the awards winners selected by the specific committees and submit the slate to the IEEE Board of Directors for final approval
- ▶ Reviews and propose amendments to policies concerning awards
- ▶ Reviews and endorses proposals for new IEEE Board-level awards
- ▶ Standing committees:
Medals Council, Recognition Council, Technical Field Awards Council,
Joint Awards with National Societies,
Cmte Awards Policy & Portfolio Review Cmte, Presentation & Publicity
Cmte, Finance Cmte

Medals (1)



IEEE Medal of Honor - exceptional contribution(s) or an extraordinary career in the IEEE fields of interest

IEEE Alexander Graham Bell Medal - exceptional contributions to communications and networking sciences and engineering

IEEE Edison Medal - career of meritorious achievement in electrical science, electrical engineering, or the electrical arts

IEEE Medal for Environmental and Safety Technologies - outstanding accomplishments in the application of technology in the fields of interest of IEEE that improve the environment and/or public safety

IEEE Founders Medal - outstanding contributions in the leadership, planning, and administration of affairs of great value to the electrical and electronics engineering profession

IEEE Richard W. Hamming Medal - exceptional contributions to information sciences, systems, and technology

IEEE Medal for Innovations in Healthcare Technology - exceptional contributions to technologies and applications benefitting healthcare, medicine, and the health sciences

IEEE Jack S. Kilby Signal Processing Medal - outstanding achievements in signal processing

Medals (2)



IEEE/RSE James Clerk Maxwell Medal - groundbreaking contributions that have had an exceptional impact on the development of electronics and electrical engineering, or related fields

IEEE James H. Mulligan, Jr. Education Medal - career of outstanding contributions to education in the fields of interest of IEEE

IEEE Jun-ichi Nishizawa Medal - outstanding contributions to material and device science and technology, including practical application

IEEE Robert N. Noyce Medal - exceptional contributions to the microelectronics industry

IEEE Dennis J. Picard Medal for Radar Technologies and Applications - outstanding accomplishments in advancing the fields of radar technologies and their applications

IEEE Medal in Power Engineering - outstanding contributions to the technology associated with the generation, transmission, distribution, application, and utilization of electric power for the betterment of society

IEEE Simon Ramo Medal - exceptional achievement in systems engineering and systems science

IEEE John von Neumann Medal – outstanding achievements in computer-related science and technology

Recognitions

IEEE Honorary Membership - To individuals not members of the IEEE, who have rendered meritorious service to humanity in IEEE's designated fields of interest

IEEE Theodore W. Hissey Outstanding Young Professional Award - contributions to the technical community and IEEE fields of interest.

IEEE Corporate Innovation Award - outstanding innovation by an organization in an IEEE field of interest

IEEE Richard M. Emberson Award - distinguished service advancing the technical objectives of IEEE

IEEE Haraden Pratt Award - outstanding volunteer service to IEEE

IEEE Eric Herz Outstanding Staff Member Award - sustained contributions by a present or past full-time staff member

Technical Field Awards (1)



IEEE Biomedical Engineering Award - biomedical engineering

IEEE Clelio Brunetti Award - nanotechnology and technologies for microsystem miniaturization

IEEE Control Systems Award - control systems engineering, science, or technology

IEEE Electromagnetics Award - theory and/or application of electromagnetics

IEEE Electronics Packaging Award - advancing components, electronic packaging, or manufacturing technologies

IEEE James L. Flanagan Speech and Audio Processing Award - advancement of speech and/or audio signal processing

IEEE Fourier Award for Signal Processing - advancement of signal processing, other than in the areas of speech and audio processing

IEEE Andrew S. Grove Award - solid-state devices and technology

IEEE Herman Halperin Electric Transmission and Distribution Award - electric transmission and distribution

Technical Field Awards (2)

IEEE Masaru Ibuka Consumer Electronics Award – consumer electronics technology

IEEE Internet Award - Internet technology for network architecture, mobility, and/or end-use applications

IEEE Richard Harold Kaufmann Award - industrial systems engineering

IEEE Joseph F. Keithley Award in Instrumentation and Measurement - electrical measurements

IEEE Gustav Robert Kirchhoff Award - fundamentals of any aspect of electronic circuits and systems that has a long-term significance or impact

IEEE Koji Kobayashi Computers and Communications Award - inspirational teaching of graduate students in the IEEE fields of interest

IEEE William E. Newell Power Electronics Award - power electronics

IEEE Daniel E. Noble Award for Emerging Technologies - emerging technologies recognized within recent years

IEEE Donald O. Pederson Award in Solid-State Circuits – solid-state circuits



Technical Field Awards (3)



IEEE Frederik Philips Award - management of research and development resulting in effective innovation in the electrical and electronics industry

IEEE Photonics Award - photonics

IEEE Robotics and Automation Award - robotics and automation

IEEE Frank Rosenblatt Award - biologically and linguistically motivated computational paradigms and systems

IEEE Marie Sklodowska-Curie Award - nuclear and plasma sciences and engineering

IEEE Innovation in Societal Infrastructure Award - establishment, development, and proliferation of innovative societal infrastructure systems through the application of information technology with an emphasis on distributed computing systems

IEEE Charles Proteus Steinmetz Award - development and/or advancement of standards in electrical and electronics engineering

IEEE Eric E. Sumner Award - communications technology

Technical Field Awards (4)

IEEE Nikola Tesla Award - generation and utilization of electric power

IEEE Kiyo Tomiyasu Award - early to mid-career contributions to technologies holding the promise of innovative applications

IEEE Transportation Technologies Award - technologies within the fields of interest to the IEEE as applied in transportation systems

IEEE Leon K. Kirchmayer Graduate Teaching Award - inspirational teaching of graduate students in the IEEE fields of interest

IEEE Undergraduate Teaching Award - inspirational teaching of undergraduate students in the fields of interest of IEEE



Technical Field Awards

Statistical information

TFA Data Summary	<u>2019</u>		<u>2018</u>		<u>2017</u>		<u>2016</u>	
		% of Total		% of Total		% of Total		% of Total
Total Number of Nominations	236		212		232		217	
Number of New Nominations	101	43%	104	49%	115	50%	84	39%
Number of Reconsider Nominations	135	57%	108	51%	117	50%	133	61%
Representation of Candidates								
Total number of candidates	282		242		266		235	
Region 1-6 Total Candidates	169	60%	163	67%	193	73%	162	69%
Region 7 Total Candidates	13	5%	20	8%	6	2%	7	3%
Region 8 Total Candidates	48	17%	32	13%	42	16%	34	14%
Region 9 Total Candidates	4	1%	2	1%	1	0%	1	0%
Region 10 Total Candidates	48	17%	25	10%	24	9%	31	13%
Number of female candidates	20	7%	14	6%	12	5%	10	4%

Awards Partnerships

NOKIA Bell Labs

IBM

SONY

intel

- **20 Leading Technology Corporations** Sponsor Awards

**STRONG
CORPORATE
SPONSORS**

- **Partnering** with the IEEE Foundation, OUs and **24 IEEE Societies & Councils**

**INTERNAL
IEEE
PARTNERSHIPS**

IEEE COMMUNICATIONS SOCIETY



IEEE **photonics** SOCIETY



Professors

Directors

CEOs

Researchers

- **450+ IEEE Volunteers – 61 committees**

**EXPERT
COMMITTEES
INDUSTRY
&
ACADEMIA**

**GLOBAL
PRESTIGE**

- **External** Visibility via National Society partnerships in 9 countries



India



Korea



Chile



France



Singapore



Uruguay



Peru



South Africa



Iceland



Who Can Nominate, Be Nominated, or Endorse?



- Anyone, including non IEEE members, is eligible to receive awards, nominate, or endorse
- EXCEPT
 - who is involved in the award review process (i.e. members of the selection committee, respective Council, AB, and IEEE BoD)
 - deceased persons are not eligible for individual nominations but may be recognized within a team nomination where at least one member is still living
- Past IEEE-level award recipients are eligible to be recognized for the same contributions, provided they move up the awards hierarchy or the nomination is for significantly different work
- Self nominations are *not* permitted

Get Involved with the Awards Program

- ▶ Serve on a Selection Committee
 - To become a volunteer, visit https://www.ieee.org/about/awards/boards_committees/49249_abna.html
 - Email awards@ieee.org with your CV and the name of the award committee on which you are interested in serving
 - Selection committees work via email and hold 3 teleconferences per year
- ▶ Nominate a colleague or a company
- ▶ Suggest hot topics or industry partners for the IEEE VIC Summit (visit ieee-vics.org)

Contact IEEE Awards Staff: +1 732 562 3844
awards@ieee.org www.ieee.org/awards



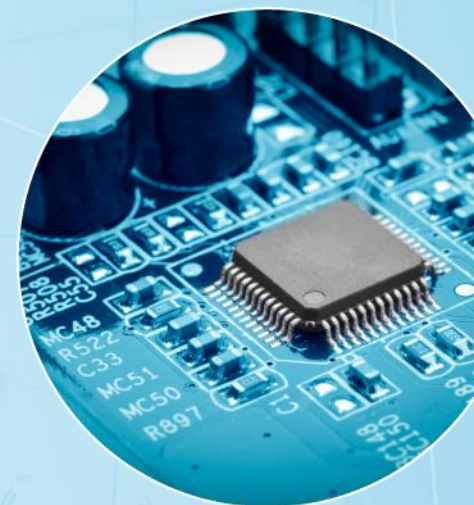
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Find us on
Facebook





IEEE EAB-level Awards

*Administered by
the IEEE Educational Activities Board*

IEEE EAB-level Awards



- ▶ ***Meritorious Achievement in Accreditation Activities*** - Efforts to foster the maintenance and improvement of education through the process of accreditation of engineering, engineering technology, computer science and applied science programs
- ▶ ***Meritorious Achievement in Continuing Education*** - Dedicated contribution to the design, delivery, and support of continuing education courses and programs in the fields of interest to IEEE members
- ▶ ***Meritorious Achievement in Outreach and Informal Education*** - Members, who volunteer time and effort for the informal education community, and highlight the benefit that their work provides to pre-university and university teachers, students, parents of students, and the public
- ▶ ***Meritorious Achievement Award in Pre-University Education*** - Individuals for work in a pre-university school, or those that influence school-based activities for pre-university students
- ▶ ***Major Education Innovation*** - Outstanding educational innovation in a field of interest of the IEEE



IEEE EAB-level Awards



- ▶ ***Meritorious Service to IEEE EAB*** - Dedicated volunteers who have given outstanding and sustained service to the aims and objectives of the EAB
- ▶ ***Educational Activities Board (EAB) / Standards Association (SA) Board of Governors Standards Education Award*** - significant contributions in support of the IEEE Standards Education mission of promoting standard, disseminating learning materials on the application of standards, and promoting integration of standards into academic programs and providing short courses about standards
- ▶ ***Employer Professional Development*** - Organizations employing IEEE members for contributions to employee continuing education and professional development
- ▶ ***Section Professional Development*** - IEEE Section for major contributions to the professional development of its members through the provision of outstanding products, services, and support in the areas of life-long learning, continuing education, and professional development
- ▶ ***Society/Council Professional Development*** - IEEE Society or Council for major contributions to the professional development of its members through the provision of outstanding products, services and support in the areas of lifelong learning, continuing education, and professional development



IEEE EAB-level Scholarships/Fellowships



- ▶ ***IEEE Life Members Graduate Study Fellowship in Electrical Engineering*** - First year, full-time graduate student for work in the area of electrical engineering at an engineering school/program of recognized standing worldwide
- ▶ ***The Charles LeGeyt Fortescue Scholarship*** - full-time graduate work in electrical engineering at an engineering school of recognized standing located in the US



IEEE EAB-level Awards: IEEE-HKN Awards and Recognitions

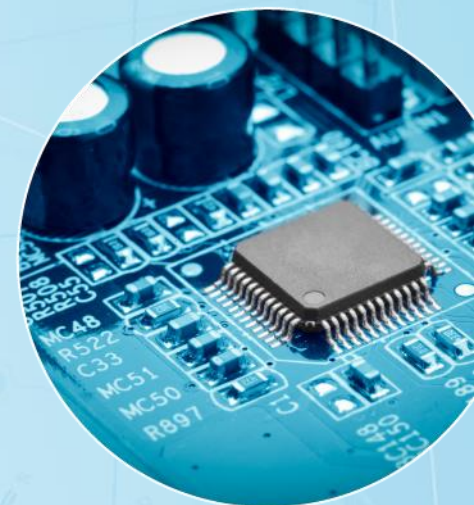
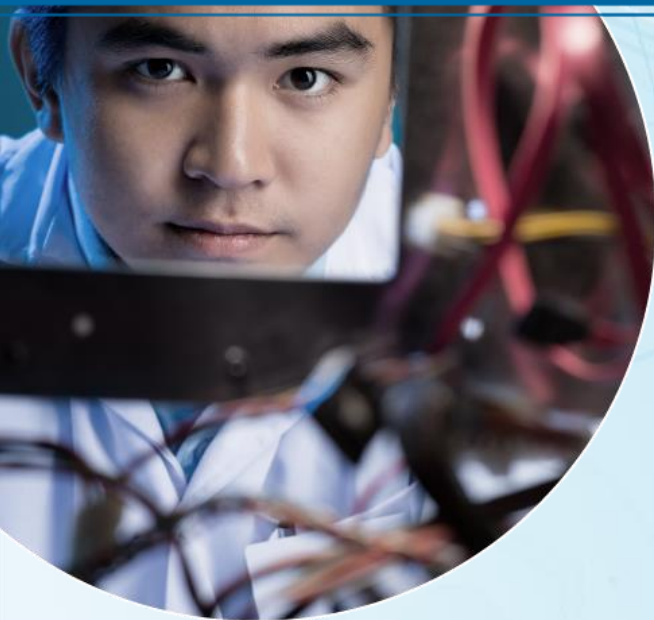
- ▶ **IEEE-HKN Outstanding Chapter Award** - Excellence in IEEE-HKN chapters for their activities
- ▶ **IEEE-HKN Alton B. Zerby and Carl T. Koerner Outstanding Student Award** - Outstanding scholastic excellence and high moral character, coupled with demonstrated exemplary service to classmates, university, community, and country
- ▶ **IEEE-HKN Outstanding Young Professional Award** - Exceptional young engineers who have demonstrated significant accomplishments in their career
- ▶ **IEEE-HKN C. Holmes MacDonald Outstanding Teaching Award** - Exceptional electrical/computer engineering professor
- ▶ **IEEE-HKN Vladimir Karapetoff Outstanding Technical Achievement Award** - Career accomplishment in the field of electrical and computer engineering
- ▶ **IEEE-HKN Eminent Member Recognition** – Individuals whose attainments and contributions to society through leadership in the fields of electrical and computer engineering have resulted in significant benefits to humankind
- ▶ **IEEE-HKN Distinguished Service Award** - Members who have devoted years of service to Eta Kappa Nu (or IEEE-HKN), resulting in significant benefits to all of the society's members



Get Involved with the EAB Awards

- ▶ Serve on a Selection Committee
- ▶ Nominate a colleague or a group

Visit the EAB web site for contacts and more information



IEEE MGA-level Awards

*Administered by
the IEEE Members and Geographic
Activities Board*

IEEE MGA-level Awards



- ▶ ***MGA Larry K. Wilson Transnational Award*** - Significant and effective accomplishment in fulfilling one or more of the goals and strategic objectives of Member and Geographic Activities (MGA) as related to transnational activities
- ▶ ***MGA Innovation Award*** - Individual or a team whose accomplishment/project is judged to be the most innovative and effective in fulfilling one or more of the goals and strategic objectives of Member and Geographic Activities (MGA)
- ▶ ***MGA Leadership Award*** - Exemplary and substantive leadership of an extraordinary nature in implementing activities that support the goals and strategic objectives of Member and Geographic Activities (MGA) at the local, regional, national, and/or international level
- ▶ ***MGA Achievement Award*** – Individuals or a team involved with Member and Geographic Activities (MGA) and its organizational units for singular achievement in the development and completion of a project(s), or activity(ies), directed to the fulfillment of one or more of the MGA goals
- ▶ ***MGA Young Professionals Achievement Award*** - Substantive projects or achievements of a relatively short nature, but which have left an undeniable imprint on the fabric of IEEE Young Professionals operations



IEEE MGA-level Awards



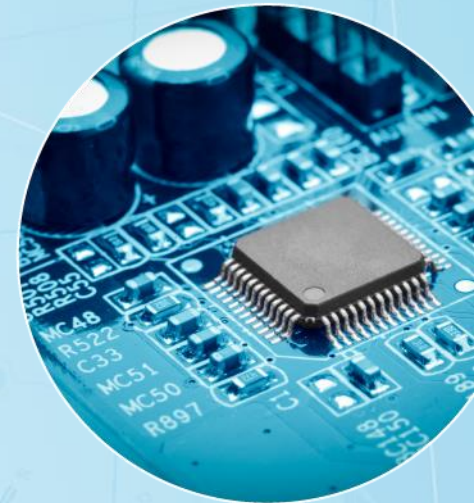
- ▶ ***MGA William W. Middleton Distinguished Service Award*** - Individual who, over a long and sustained period of leadership, contributed in an exemplary manner to Member and Geographic Activities (MGA), its activities and achievements, and the attainment of its strategic goals
- ▶ ***IEEE VP Member and Geographic Activities Discretionary Award*** - An IEEE Member(s) or organization(s) with a significant and substantial effect on Member and Geographic Activities (MGA) related to the mission of MGA
- ▶ ***Friend of IEEE Member and Geographic Activities Award*** - Individual or organization having a long (minimum of three years) history of demonstrated support to Member and Geographic Activities (MGA)
- ▶ ***MGA Outstanding Large Section Award*** - Excellence of a large Section (>1,500 members)
- ▶ ***MGA Outstanding Medium Section Award*** - Excellence of a medium Section (>500, ≤ 1,500 members)
- ▶ ***MGA Outstanding Small Section Award*** - Excellence of a small Section (≤ 500 members)



Get Involved with the MGA Awards

- ▶ Serve on a Selection Committee
- ▶ Nominate a colleague or a group

Visit the MGA web site for contacts and more information



IEEE Region-level Awards

Administered by the IEEE Regions

IEEE Region-level Awards

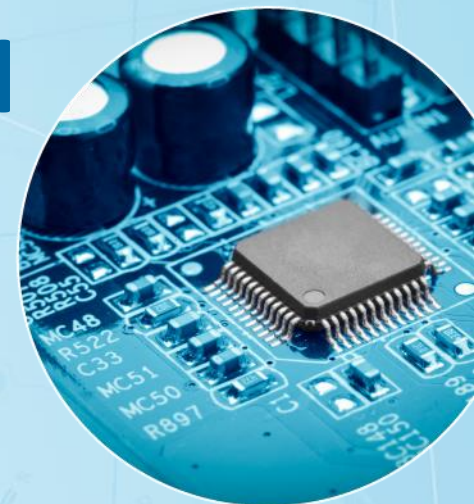
- ▶ Outstanding Volunteer Service
- ▶ Outstanding Young Professionals
- ▶ Outstanding Women in Engineering
- ▶ Outstanding Students
- ▶ Outstanding WIE Student
- ▶ Outstanding Sections – Small, Medium, Large
- ▶ Outstanding Chapters – Small, Medium, Large
- ▶ Outstanding Student Branch
- ▶ Outstanding Student Branch Chapter
- ▶ ...



Get Involved with IEEE Region-level Awards

- ▶ Serve on a Selection Committee
- ▶ Nominate a colleague or a group

Visit the Region web sites for contacts and more information



IEEE Section/Regional Council level Awards

*Administered by
the IEEE Sections and Regional Councils*

IEEE Section and Regional Council level Awards

- ▶ Outstanding Achievements
- ▶ Outstanding Service
- ▶ Outstanding Individuals (YP, WIE, Students, ...)
- ▶ Outstanding Companies/Institutions
- ▶ Outstanding Groups (Chapters, Branches, ...)
- ▶ ...

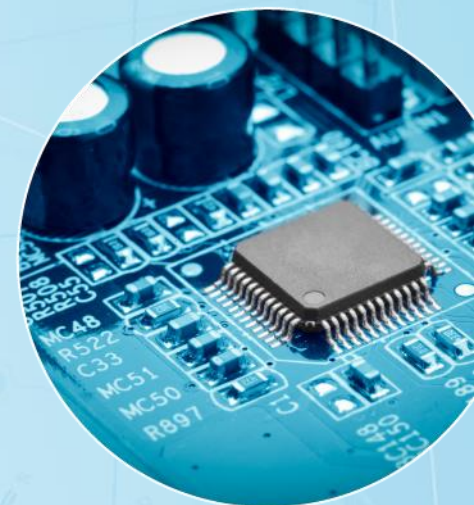
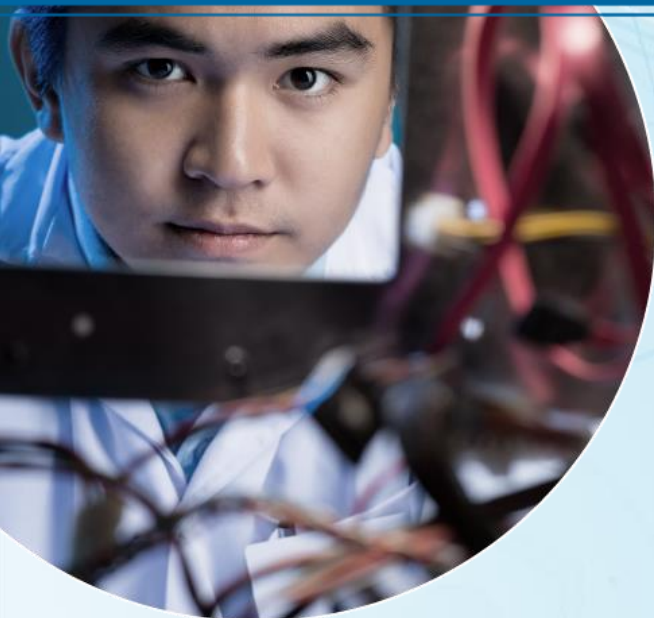


Get involved with IEEE Section and Regional Council level Awards

- ▶ Serve on a Selection Committee
- ▶ Nominate a colleague or a group or a company

Visit the Section/Regional Council web sites for contacts and more information





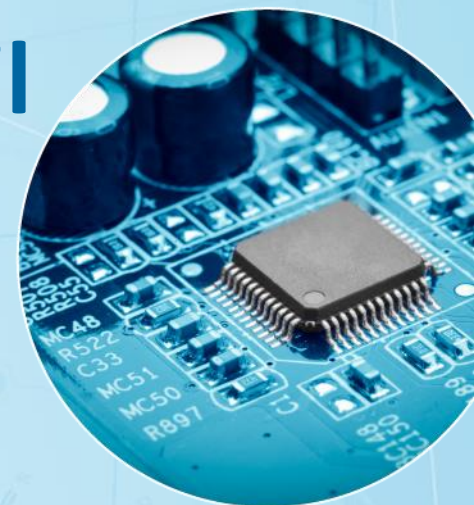
IEEE TAB-level Awards

*Administered by
the IEEE Technical Activities Board*

IEEE TAB Hall of Honor

- ▶ Outstanding contributions to the success of IEEE Technical Activities (TA) over the years with creation, development, or advancement of the technical objectives of IEEE





IEEE Society/Technical Council level Awards

*Administered by
the IEEE Societies and Technical Councils*

IEEE Society and Technical Council level Awards

Recognize the achievements in the specific field of a Society or Technical Council

<https://www.ieee.org/communities>

Aerospace and Electronic Systems Society

Antennas and Propagation Society

Broadcast Technology Society

Circuits and Systems Society

Communications Society

Computational Intelligence Society

Computer Society

Consumer Electronics Society

Control Systems Society

Council on Electronic Design Automation

Council on Superconductivity

Dielectrics and Electrical Insulation Society

Education Society

Electromagnetic Compatibility Society

Electron Devices Society

Electronics Packaging Society

Engineering in Medicine and Biology Society

Geoscience and Remote Sensing Society

Industrial Electronics Society

Industry Applications Society

Information Theory Society

Instrumentation and Measurement Society

Intelligent Transportation Systems Society

Biometrics Council

Council on RFID

Magnetics Society

Microwave Theory and Techniques Society

Nanotechnology Council

Nuclear and Plasma Sciences Society

Oceanic Engineering Society

Photonics Society

Power Electronics Society

Power & Energy Society

Product Safety Engineering Society

Professional Communication Society

Reliability Society

Robotics and Automation Society

Sensors Council

Signal Processing Society

Society on Social Implications of Technology

Solid-State Circuits Society

Systems Council

Systems, Man, and Cybernetics Society

Technology and Engineering Management Society

Ultrasonics, Ferroelectrics, and Frequency Control Society

Vehicular Technology Society



IEEE Society and Technical Council level Technical Awards

- ▶ Outstanding Technical Achievements
- ▶ Outstanding Service
- ▶ Outstanding Individuals (YP, WIE, Students, ...)
- ▶ Outstanding Companies/Institutions
- ▶ Outstanding Groups (Chapters, ...)
- ▶ Best papers
- ▶ Conference Travel Awards
- ▶ Scholarships
- ▶ ...



Get involved with IEEE Society and Technical Council level Technical Awards

- ▶ Serve on a Selection Committee
- ▶ Nominate a colleague or a group or a company

Visit the Society/Technical Council web sites for contacts and more information

Questions?

