



2024 Annual Report

Strong Foundation. Infinite Possibilities.

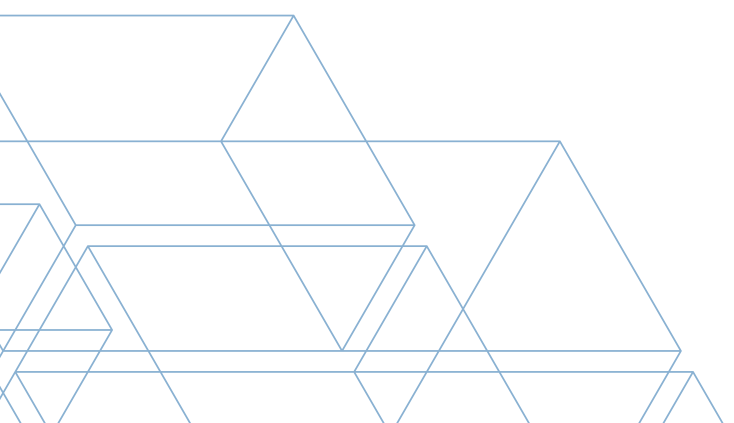


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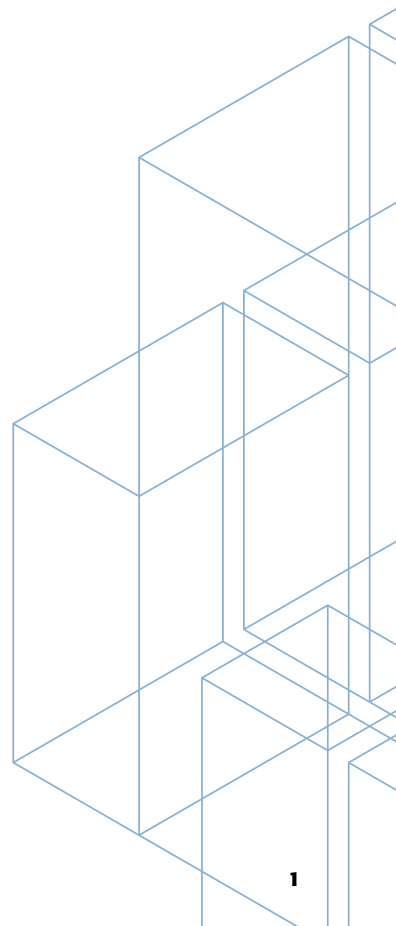
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Strong Foundation. Infinite Possibilities.

For 140 years, IEEE has stood at the intersection of technological innovation and human progress. Guided by our mission to advance technology for the benefit of humanity, IEEE's rich heritage is a testament to its past achievements and serves as a launch pad for infinite possibilities.

As a public charity, IEEE is uniquely positioned to shape technology's trajectory, driven by the continued dedication of members, volunteers and staff. From our students and young professionals to our senior and life members, and the staff who help bring their visions to reality, IEEE is equipped to transform the next century of technological progress into meaningful human advancement.





[CLICK TO WATCH VIDEO](#)

A Message from Thomas M. Coughlin, 2024 IEEE President & Chief Executive Officer and Sophia A. Muirhead, IEEE Executive Director & Chief Operating Officer

The story of IEEE is one of global innovation, where people, ideas and technology come together to shape a better future. From the infrastructure that powers our cities to the devices that connect us across continents, IEEE is woven into the fabric of modern life. At the heart of this impact are our members, volunteers and staff, united by a shared purpose and driven to turn bold ideas into meaningful breakthroughs that advance technology for the benefit of humanity.

In 2024, IEEE proudly celebrated its 140th anniversary, a milestone that honored our legacy while looking ahead to new opportunities. Founded by visionary engineers committed to applying science and engineering to real-world problems, IEEE has stayed true to that mission, helping improve everyday life and society as a whole.

IEEE has long connected the global technology community through conferences, publications, technical societies, standards development and continuing education. Our platforms bring together the people and ideas that fuel discovery, support professional growth and drive breakthrough innovation.

IEEE publications are cited three times more often by the top 50 global patenting organizations than any other publisher, reflecting the trust placed in our research. We publish three of the top five journals in artificial intelligence, automation and computer systems, fields that are transforming industries and lives.

With over 1,100 active standards, IEEE helps shape the technologies behind the internet, blockchain, the metaverse and other digital ecosystems. Our standards guide responsible development in emerging areas, such as AI and online child safety. By setting clear frameworks, IEEE helps ensure new technologies are developed with ethics, safety, reliability and long-term impact in mind.

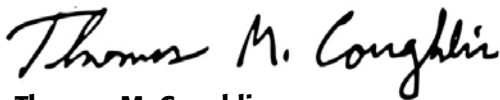
IEEE's global influence also extends to shaping public policy and ensuring that emerging technologies are developed responsibly. We continue to work with policymakers and stakeholders to ensure technology serves the public interest and reflects our shared values.

In 2024, IEEE focused on strengthening its foundation for the future by prioritizing improving retention of young members and expanding engagement with industry. These priorities reflect our commitment to evolving alongside the needs of the global technology community and ensuring IEEE remains a valuable resource across all stages of a professional's journey. Efforts in both areas are helping shape how we deliver value, foster collaboration and build meaningful connections across sectors.

To support long-term impact, the IEEE Board of Directors approved a refreshed set of [strategic goals in 2024 to guide the organization through 2030](#). While our mission, vision and core values remain unchanged, these new goals strengthen alignment across the organization. They emphasize advancing science and technology, promoting responsible innovation, inspiring intellectual curiosity and supporting interdisciplinary collaboration and professional development.

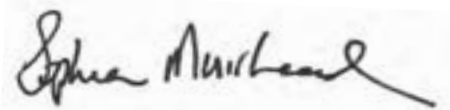
As we look ahead, we are building on 140 years of innovation, leadership and service. IEEE will continue to evolve, lead and support the individuals and communities driving technology forward, always guided by our mission to advance technology for the benefit of humanity.

Sincerely,



Thomas M. Coughlin

2024 IEEE President and Chief Executive Officer



Sophia Muirhead

IEEE Executive Director and Chief Operating Officer

IEEE by the Numbers

All numbers below reflect 2024 totals

IEEE Xplore® Digital Library

6,582,392 Total Documents

353,266,586 Total Usage (PDF downloads and HTML Views)

307,248 New Conference Papers

102,163 New Journal and Magazine Articles

186 Standards Approved for Publication

Membership

486,616 Total Members

TOP 5 COUNTRIES FOR MEMBERS:

156,418 United States

94,541 India

48,868 China

14,643 Japan

14,359 Canada

Student Members

189,717 Total Student Members

TOP 5 COUNTRIES FOR STUDENT MEMBERS:

71,907 India

23,511 United States

21,419 China

7,350 Tunisia

3,676 Korea

10 Regions Worldwide

347 Sections

3,613 Student Branches

2,815 Chapters

Conferences

2,260 IEEE Sponsored

609,000 Conference Attendees

IEEE Society Memberships

7,043	IEEE Aerospace and Electronic Systems Society	39,425	IEEE Power & Energy Society
13,032	IEEE Antennas and Propagation Society	13,524	IEEE Power Electronics Society
3,502	IEEE Broadcast Technology Society	855	IEEE Product Safety Engineering Society
21,185	IEEE Circuits and Systems Society	679	IEEE Professional Communication Society
38,835	IEEE Communications Society	5,517	IEEE Reliability Society
11,275	IEEE Computational Intelligence Society	22,672	IEEE Robotics and Automation Society
62,388	IEEE Computer Society	22,376	IEEE Signal Processing Society
3,060	IEEE Consumer Technology Society	2,075	IEEE Society on Social Implications of Technology
9,194	IEEE Control Systems Society	10,827	IEEE Solid-State Circuits Society
1,996	IEEE Dielectrics and Electrical Insulation Society	6,867	IEEE Systems, Man, and Cybernetics Society
8,926	IEEE Education Society	3,019	IEEE Technology and Engineering Management Society
3,628	IEEE Electromagnetic Compatibility Society	2,172	IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
10,598	IEEE Electron Devices Society	10,082	IEEE Vehicular Technology Society
5,601	IEEE Electronics Packaging Society	434,375	TOTAL SOCIETY MEMBERSHIPS
13,549	IEEE Engineering in Medicine and Biology Society		
8,021	IEEE Geoscience and Remote Sensing Society		
14,874	IEEE Industry Applications Society		
11,466	IEEE Industrial Electronics Society		
4,555	IEEE Information Theory Society		
4,069	IEEE Instrumentation and Measurement Society		
3,175	IEEE Intelligent Transportation Systems Society		
4,786	IEEE Magnetics Society		
14,157	IEEE Microwave Theory and Technology Society		
3,367	IEEE Nuclear and Plasma Sciences Society		
1,967	IEEE Oceanic Engineering Society		
10,036	IEEE Photonics Society		

53%

of IEEE members
belonged to one or
more societies
in 2024



Amplifying the IEEE Mission

In 2024, IEEE strengthened its leadership position, helping to guide innovation in a direction that benefits humanity. We made inroads with industry and expanded collaborations with students and policymakers in efforts that showcased the large impact that technology plays in driving positive change.



IEEE Celebrates 140 Years

In 2024, IEEE marked its 140th anniversary, celebrating the remarkable contributions of its members and volunteers worldwide. Since its origin, IEEE has helped shape the world of technology—from computing and standards to Wi-Fi and cell phones—up to the latest AI applications. To commemorate this milestone, IEEE released [Inspiring Technology: 34 Breakthroughs](#), a 144-page e-book spanning nearly a century and a half of electrical engineering innovation and IEEE history.

IEEE President Tom Coughlin hosted an event to celebrate IEEE’s significant history, recognizing the members and volunteers who have helped shape the world of technology. The IEEE Foundation featured its inaugural “[IEEE Foundation Day](#),” highlighting its role as the heart of IEEE charitable giving and philanthropy and acknowledging the donors that make it possible.



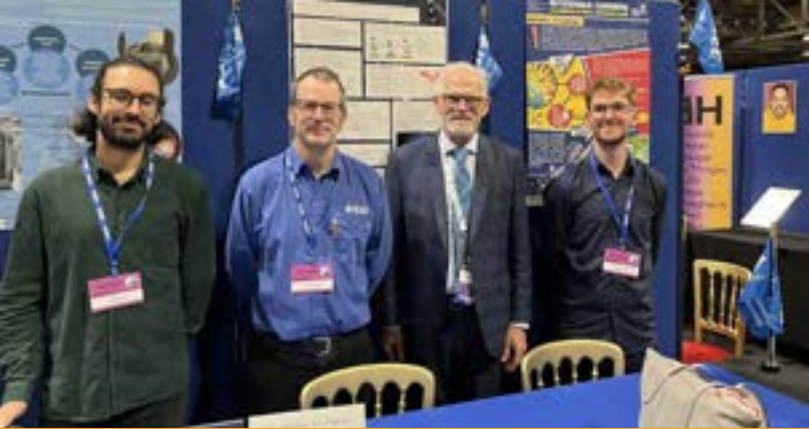
[CLICK TO WATCH VIDEO](#)

Expanding Industry Engagement

To promote collaboration and identify engagement opportunities with industry, IEEE leadership met with corporations in Silicon Valley in the United States and around the world to showcase the benefits and impact of IEEE. Building these connections helps amplify the valuable resources that IEEE provides to corporations, ranging from professional development to access to IEEE standards.

The IEEE Standards Association offers corporations, as well as universities and governments, a [membership option](#) that enables participants to engage and influence technology development.

TOP LEFT & RIGHT: 140th event attendees



IEEE Student Branches Host Sci-Fi Contest at Worldcon

At the 2024 World Science Fiction Convention (Worldcon) in Glasgow, Scotland, local IEEE student branches organized a successful science fiction competition, where the next generation of technologists shared their thoughts on the future of technology. Additionally, IEEE President Tom Coughlin moderated a panel on machine-brain interface and 2024 IEEE President-elect Kathleen Kramer moderated a panel on how AI may impact the workforce.

Empowering Professionals in STEM

[IEEE Women in Engineering \(WIE\)](#) is driving global initiatives to bridge the gender gap in STEM fields. Through innovative approaches like the Riko-chan manga series, a collaboration with the IEEE Japan Council that showcases a young girl solving problems through STEM, WIE was successful in actively engaging the next generation of female engineers.

Additionally, events like the 2024 IEEE WIE China Leadership Summit and WIE Industry Forum brought together influential professionals to discuss digital innovation, career development and workplace engagement. These platforms provide crucial networking, mentorship and skill-building opportunities while advocating to support the advancement of women in engineering. [Learn more about the IEEE WIE manga series.](#)



TOP LEFT: IEEE President Tom Coughlin (third from left) with 2024 Worldcon attendees
TOP RIGHT: 2024 IEEE Women in Engineering (WIE) China Leadership Summit attendees



IEEE Supports CHIPS Act with Events Across the U.S.

IEEE-USA's "[Packaging Chips with CHIPS](#)" event, held at Arizona State University, brought together thought leaders from chip packaging and design companies and government policymakers to discuss the chip packaging industry in light of the historic CHIPS Act. The CHIPS Act is legislation intended to drive America's semiconductor industry.

The initiative extended to Little Rock, Arkansas; Sioux Falls, South Dakota; and Huntsville, Alabama where the IEEE-USA Innovation, Workforce and Research Conference (IWRC) delved deeper into the US\$56 billion CHIPS Act and other government programs that promote innovation and entrepreneurship. Additionally, IEEE participated with other experts in a congressional briefing for the U.S. House of Representatives evaluating the CHIPS Act legislation.

IEEE Advances Clean Tech Solutions Worldwide

The [IEEE Future Directions SusTech Initiative](#), in partnership with the [2024 IEEE SusTech Conference](#), hosted a hybrid workshop on low-carbon building materials and architecture at Portland State University. This event was part of a broader suite of efforts, including the work of IEEE members showcased on the [IEEE Climate Change website](#) as well as webinars organized by the [IEEE Technology Center for Climate](#), based in the IEEE Vienna Global Office. Together, these initiatives highlight IEEE's commitment to advancing climate-focused innovation.

IEEE Showcases Global Impact at Key Tech Events

IEEE had a strong presence at major global events, including CES, Mobile World Congress, European Women in Technology and Futurecom. These engagements highlight IEEE's role in fostering innovation, collaboration and solutions that benefit humanity worldwide. IEEE members shared insights on panel discussions and interacted with attendees, demonstrating IEEE thought leadership in key emerging technologies.

TOP LEFT: Ebonee Walker, IEEE Region 3 WIE Representative, and other *Opportunities & Challenges in Workforce Development* panelists at IEEE-USA's IWRC in Huntsville, AL.
TOP RIGHT: IEEE Senior member Cristiane Pimentel discussing digital transformation through digital twins at Futurecom 2024.



Empowering the Next Generation

IEEE strengthened its global community by actively engaging students and young professionals. Through its worldwide network of members and volunteers, IEEE is a place where the next generation of talent can find inspiration, build professional connections and advance their careers in technology.



Students Shine at Rising Stars Conference

The [2024 IEEE Rising Stars Conference](#) drew a record 345 attendees for three days of educational sessions, keynote panels and networking. The conference featured an inaugural project showcase sponsored by the IEEE Foundation, with prizes awarded for introductory, advanced and large group projects. The first prize in the large group project went to students from Arizona State University for their hydration station, a mobile machine that can clean, sterilize and refill reusable water bottles for people who need access to clean water in Arizona.

IEEE Day Celebrates 15th Anniversary

[IEEE Day](#) commemorates the first gathering of IEEE members in 1884. This year's celebration, which coincided with IEEE History Week and IEEE's 140th anniversary, underscored the historical significance and global reach of the organization.



TOP: IEEE President Tom Coughlin speaking at the Rising Stars conference (left) and standing with Rising Stars attendees.

IEEEExtreme Competition Breaks New Ground

The 2024 [IEEEExtreme 18.0 Programming Competition](#) challenged students to solve a series of complex coding challenges within a 24-hour period. The introduction of PreXtreme 1.0, a new warm-up event designed to help participants practice problems and refine strategies, proved highly successful, driving a 109% year-over-year increase in early team registration. Read about one team's experience [here](#).



19,916

Participants



8,793

Teams



75

Countries



857

**IEEE Student
Branches**



150+

IEEE Sections

IEEE-HKN Marks 120 Years

[IEEE-Eta Kappa Nu](#) (HKN), the international honor society of IEEE, encourages and recognizes excellence in education, professional practice and meritorious work within IEEE's designated fields of interest. As part of its 120th anniversary celebration, IEEE-HKN hosted a virtual fireside chat with internet pioneers Vinton Cerf and Robert Kahn, both of whom are IEEE Medal of Honor recipients, IEEE Life Fellows and IEEE-HKN Eminent Members. The event offered an inside look at the creation of the internet and the groundbreaking work of these innovators.

Service and outreach events included engineering workshops with younger students, tutoring, community clean ups and more.

In 2024, IEEE-HKN chapters reported:

- **104,000** total volunteer hours contributed to universities and local communities
- **748** service/outreach events planned and executed
- **45,550** total hours devoted to all service activities to the public
- **100+** STEM outreach activities planned
- **8,000+** hours devoted to STEM outreach activities

280+
Collegiate Chapters
Worldwide

200K+
Global Members

Expanding Global Youth STEM Education

In 2024, IEEE expanded its pre-university engineering education through several key initiatives:

- The new TryEngineering On Campus program launched successfully at two locations: a seven-day program at Greece’s University of Ioannina introducing students to augmented reality/virtual reality and design challenges and a two-day AI-focused program in Hong Kong. [See highlights from the camps.](#)
- [TryEngineering Summer Institute](#) hosted 330 high school students across three U.S. college campuses—University of Pennsylvania, Rice University and University of San Diego—offering nine-day experiences with hands-on engineering activities, field trips and lab tours.
- [TryEngineering.org](#) added enhanced resources for teachers, parents and students. The updated central hub for IEEE’s pre-university programs now features over 130 lesson plans.



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Young Innovators Win Scholarship Awards

At the 2024 International Science and Engineering Fair in Los Angeles, CA, IEEE marked its 25th year of participation by awarding three [IEEE Presidents’ Scholarships](#) in partnership with the IEEE Foundation. This year’s awards recognized outstanding projects including an autonomous unmanned aerial vehicle system for ocean rescue, a soil carbon tracking device and a mobile app that helps ALS patients type sentences with only their eyes. The first prize winner received US\$10,000, payable over four years of undergraduate university study. IEEE President Tom Coughlin also presented a special US\$1,000 anniversary award alongside the scholarships.



Leading Innovation

IEEE brings together members and volunteers from around the world to drive discussions that advance technology for the benefit of humanity. Through crucial collaborations with technology professionals, policymakers and organizations, IEEE is helping to drive meaningful innovations that shape our collective future.



IEEE Conferences Spotlight Global Innovation

In 2024, IEEE conferences highlighted groundbreaking research and emerging technologies, reflecting the organization's unwavering dedication to fostering innovation, exploration and collaboration across the global technical community.

- **ICRA Showcases Latest Robotics Innovations (Yokohama, Japan)**

[IEEE International Conference on Robotics and Automation \(ICRA\)](#) continues to transform the field of robotics, sharing the latest research, technologies and innovations.

Additionally, [ICRA@40](#) in Rotterdam, Netherlands, commemorated 40 years of the founding of the IEEE Robotics and Automation Society and the launch of ICRA, the largest conference in robotics.

2,260
Sponsored
Conferences

609K
Attendees



[▶ CLICK TO WATCH VIDEO](#)

- **IEEE Quantum Week Discusses Technologies of the Future (Montreal, Canada)**

[IEEE Quantum Week](#) bridged the gap between quantum computing science and the industry emerging around it. Over 10 IEEE societies and groups collaborated to deliver live exhibits, world-class keynote speakers, technical papers, community-building workshops and engaging panels examining the latest advancements.

TOP LEFT: ICRA attendees

TOP RIGHT: IEEE Quantum Week attendees



- **IEEE Power & Energy Society T&D Brings Global Energy Community Together (Anaheim, CA)**

The [2024 IEEE PES Transmission and Distribution Conference and Exposition](#) is a vital forum for discovery and collaboration fueling grid modernization. Innovations to help power the future drove record attendance.

- **IEEE Photonics Conference Features Record Number of Papers (Rome, Italy)**

The [IEEE Photonics Conference](#) covered a broad scope of technical areas within photonics. The event, which featured a record number of submitted papers, provided a unique opportunity for industry professionals to advance the field of photonics together.

IEEE Jamaica Section Hosts Workshop on Engineering Opportunities

The IEEE Jamaica Section hosted a workshop at the University of Technology, Jamaica, focused on expanding access to quality engineering opportunities in the country. The event attracted over 200 participants, including local IEEE members, high school and college students and representatives from academia, industry and government—including the Minister of Education.



 [CLICK TO WATCH VIDEO](#)

TOP LEFT: IEEE PES T&D Conference attendees

TOP RIGHT: IEEE Photonics Society conference attendees

Exploring AI's Impact on the Future of Work

At the CES 2024, IEEE members from industry and academia participated in a panel discussion on how the evolving tech landscape is reshaping the professional world and how educational institutions can prepare students to succeed. IEEE President-elect Kathleen Kramer highlighted that IEEE established the world's first engineering ethics code in 1912 and has since been at the forefront of updating ethics considerations in engineering, computer science and the emerging field of AI ethics.

Preparing for the Future: IEEE's Megatrends Report

Organizations must prepare for the transformative impacts of artificial general intelligence, sustainability and digital transformation, according to [IEEE's 2024 Technology Megatrends](#) report. These megatrends are poised to reshape how companies, governments and universities operate while redefining the skills employees need. The report draws on insights from over 50 experts spanning academia, the public sector and industry on how industries can harness these megatrends for growth and innovation.

IEEE Standards Association Earns Accreditation from the Standards Council of Canada

The IEEE Standards Association's (IEEE SA) entry into the Standards Council of Canada's (SCC) network of [accredited standards development organizations](#) (SDO) initiated a collaboration to deliver global standards and related solutions to better serve the needs of customers, organizations and policymakers in Canada. As an SCC-accredited SDO, IEEE SA can submit IEEE standards to SCC for adoption as National Standards of Canada. Standards help ensure that the technology society relies on functions safely, securely and sustainably.



ABOVE: IEEE staff members and SCC team gather at the SCC Accreditation event.



IEEE Publications Fuel Groundbreaking Discoveries

IEEE's extensive collection of journals, magazines, conference proceedings and other content hosted on the IEEE *Xplore* digital library is a home for researchers' breakthrough discoveries. These peer-reviewed publications foster the exchange of cutting-edge ideas that drive technological progress and help fuel emerging technologies. IEEE remains committed to open access publishing and open science, ensuring that groundbreaking research reaches the widest possible audience.

Top Patenting Organizations Rely on IEEE Research to Drive Innovation

According to the [2024 study by 1790 Analytics](#), patents that build upon IEEE-published science have higher citation indices than patents that do not reference IEEE. This suggests that patents that build upon IEEE science are more likely to become high-quality, high-impact inventions than patents that do not build upon IEEE science. The study found:

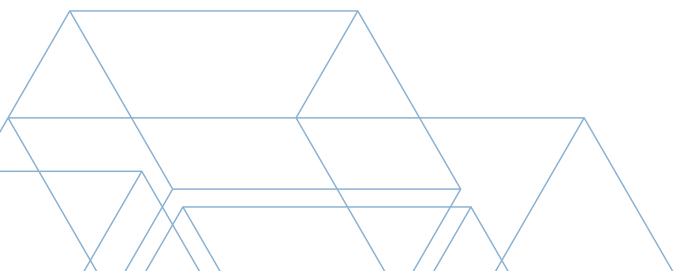
- IEEE tech patents are cited nearly three times more than any other publisher
- IEEE journals, standards and conference proceedings received over 680,000 patent citations
- Referencing of IEEE papers in patents has increased 864% since 1997

**The report examines patents issued from January 1, 2004, through December 31, 2023, filed with the U.S. Patent Office by the year's 50 top-patenting organizations during this period.*

IEEE Journals Lead the Field in Citation Rankings

In 2024, IEEE journals once again excelled in journal citation rankings according to the latest Journal Citation Reports™ from Clarivate Analytics and CiteScore™ metrics by Scopus. The rankings highlight IEEE's continued excellence in publishing influential research across diverse fields including artificial intelligence, imaging sciences, automation, cybernetics and computer science. A wide range of IEEE publications were among the most-cited journals in multiple categories:

- **21** of the top 25 journals in Electrical & Electronic Engineering
- **13** of the top 15 journals in Telecommunications
- **5** of the top 10 journals in Computer Science, Artificial Intelligence
- **5** of the top 10 journals in Imaging Sciences
- **4** of the top 5 journals in Automation and Control systems
- **3** of the top 5 journals in Computer Science, Cybernetics
- **3** of the top 5 journals in Computer Science, Hardware & Architecture
- **3** of the top 5 journals in Computer Science, Information Systems



IEEE Expands Open Access Portfolio

IEEE continued to offer multiple publishing options for its author community, including expanding its open access offerings. In 2024, new gold open access journals covered diverse fields from privacy to sensors.



IEEE Strengthens Research Integrity Process

In 2024, IEEE continued to [evolve its publishing processes](#) based on industry best practices to help maintain the integrity of the scholarly record. One initiative helps detect papers with issues of concern, including plagiarism, inappropriate citations and the use of artificial intelligence to generate content without proper disclosure. IEEE collaborates with other publishers to manage this industry-wide issue.

IEEE also broadened its corrective measures for publishing misconduct. Previously focused on restricting authorship, the organization now imposes restrictions on editorial roles, including peer reviewers, editors, conference organizers and conference publication officers.



Changing the World for the Better

Since 1884, IEEE has actively shaped the future of technology—and the world—by tirelessly advancing innovation and technological excellence. In 2024, IEEE recognized the groundbreaking accomplishments of its leaders and members who sparked radical transformation and made our planet a better place.



IEEE Medal ^{OF} Honor

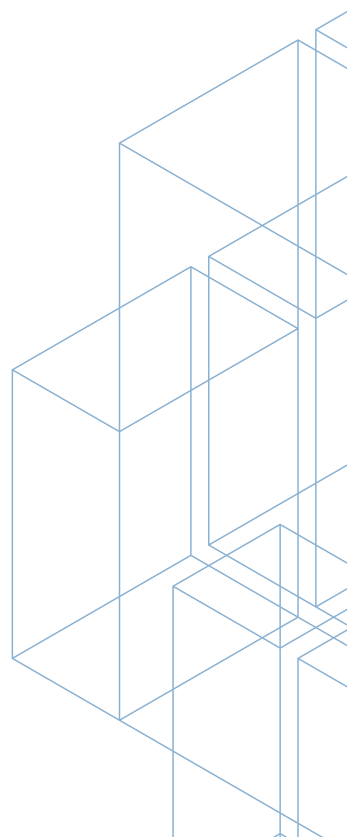
Prestigious IEEE Medal of Honor Prize Increased to US\$2 Million in 2025

To recognize the world-changing impact that technology, engineering and science innovators have on society globally, IEEE increased the [IEEE Medal of Honor monetary prize](#) to US\$2 million starting in 2025. This momentous move elevates the recognition of extraordinary individuals and their work to benefit humanity to its rightful place as one of the world's most prestigious technology-focused prizes and awards.



 [CLICK TO WATCH VIDEO](#)

TOP: 2024 IEEE Honors Ceremony medal recipients





IEEE Life Fellow Robert Kahn Awarded 2024 IEEE Medal of Honor

The Medal of Honor is IEEE’s pinnacle of recognition. In 2024, it was awarded to [Robert Kahn](#), widely known as one of the “fathers of the Internet.” Kahn was recognized “for pioneering technical and leadership contributions in packet communication technologies and foundations of the internet.” Kahn’s leadership and dedicated efforts in the application of packet networks led to the development of the internet. The award was presented at the IEEE Honors Ceremony in Boston, MA.



[CLICK TO WATCH VIDEO](#)

AI and Global Engagement Spotlighted at VICS

The [2024 IEEE Vision, Innovation and Challenges Summit](#) in Boston, MA, spotlighted artificial intelligence and global engagement initiatives as key themes. During panel discussions, experts emphasized AI’s role as a tool to enhance rather than replace human capabilities. The summit also highlighted how global engagement and participation drives excellence and helps talent reach their full potential, reflecting IEEE’s commitment to ensuring all members feel welcome and appreciated.

TOP LEFT: 2024 IEEE Medal of Honor recipient Robert Kahn
TOP RIGHT: IEEE VIC Summit attendee



Gladys West Receives IEEE President's Award

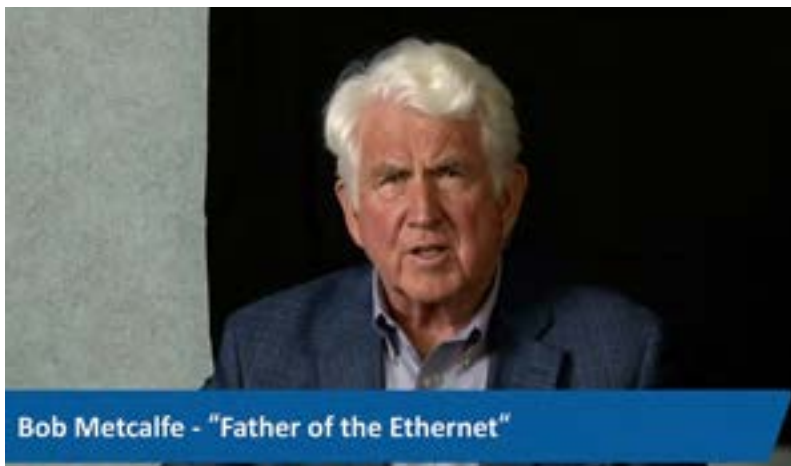
The [2024 IEEE President's Award](#) was presented to Gladys West for "mathematical modeling and development of satellite geodesy models that played a pivotal role in the development of the Global Positioning System." When she began her career in 1956 at the Naval Proving Ground, she was only one of four African Americans employed at the facility. West's contributions have had a lasting impact on mathematics, geodesy and computer science. Her pioneering efforts in a predominantly male and racially segregated environment set a precedent for future generations.

Recognizing Historic Technology Milestones

Each year, the IEEE Milestones program honors exceptional technical achievements that occurred at least 25 years ago. In 2024, 19 Milestones were dedicated, including:

The Internet Turns 50

As the internet turned 50 in 2024, IEEE commemorated the revolutionary Transmission Control Protocol (TCP) that made it all possible. A special virtual event celebrated this milestone, featuring global leaders discussing the internet's impact. From its 1974 introduction in an IEEE paper to today's network connecting over five billion people, TCP has enabled trillions of dollars in economic activity annually and sparked countless innovations.



[CLICK TO WATCH VIDEO](#)

TOP LEFT: Woman holding the prototype of the Discrete Address Beacon System Transponder, February 1, 1974.

TOP RIGHT: Picture of 2024 IEEE President Award recipient Gladys West

About the Milestone:

1974

Transmission Control Protocol (TCP) Enables the Internet

Stanford, CA, USA

IEEE Life Fellows Vinton Cerf and Robert Kahn authored a seminal paper describing the Transmission Control Protocol (TCP) that supported the interconnection of multiple packet-switched networks into a network of networks. Split later into TCP and an Internet Protocol (IP), TCP and IP became core components of the Internet that DARPA launched operationally in 1983.

Other Milestone dedications included:

1969–1995

Mode S Air Traffic Control Radar Beacon System

Lexington, MA, USA

In 1969, MIT Lincoln Laboratory began developing the Mode S selective secondary surveillance radar beacon system to enable safe air traffic control, and by 1995 it had become the worldwide standard for air traffic control radars.

1972-1987

Deep Space Station 43

Paddy's River District ACT, Australia

Deep Space Station 43 is a steerable parabolic antenna that supported the Apollo 17 lunar mission, Viking Mars landers, Pioneer and Mariner planetary probes and Voyager's encounters with Jupiter, Saturn, Uranus and Neptune.



1997

Toyota Prius, the World's First Mass-Produced Hybrid Vehicle

Aichi, Japan

Toyota Motor Corporation developed the world's first mass-produced hybrid vehicle, the Toyota Prius, which used both an internal combustion engine and two electric motors. This vehicle achieved revolutionary fuel efficiency by recovering and reusing energy previously lost while driving, contributing to the reduction of CO₂ emissions.

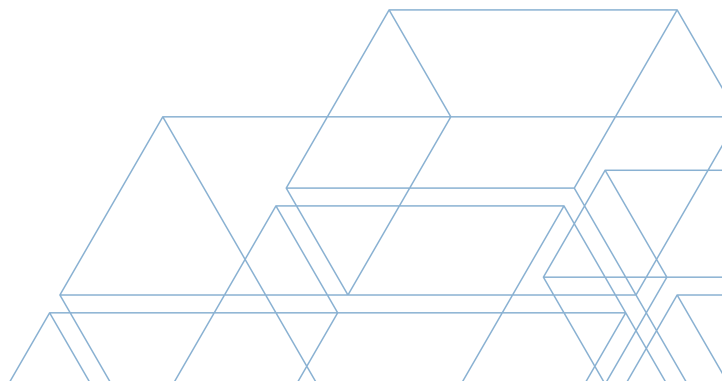
ABOVE: DSS-43 and DSS-34, a 34-metre beam waveguide antenna

IEEE Milestones Program Celebrates 40th Anniversary

The IEEE Milestones Program marked its 40th anniversary, celebrating four decades of recognizing outstanding technical achievements across engineering, computing and science. Over these 40 years, the program has highlighted innovations that benefit humanity and has focused on honoring the achievement itself rather than specific places or people. From its first milestones in 1984 to today, the program has recognized over 250 significant technological contributions across the globe that have helped shape our world.



ABOVE: Robert Keyes, Theodore M. Quist, and Robert Rediker at MIT-Lincoln Laboratory demonstrating transmission of a television signal using their newly developed semiconductor technology in 1962.



IEEE Board of Directors



1st Row from Left:

Gerardo Barbosa, Sophia A. Muirhead, Thomas M. Coughlin, Kathleen A. Kramer, Saifur Rahman, Forrest D. Wright

2nd Row from Left:

Eric Grigorian, Aylin Yener, Yong Lian, Kamal Al-Haddad, Jenifer P. Castillo Rodriguez, ChunChe "Lance" Fung, Leila De Florian

3rd Row from Left:

Kathy Herring Hayashi, Rabab Kreidieh Ward, Vincenzo Piuri, Vickie A. Ozburn, Bala S. Prasanna, Christina M. Schober, James E. Matthews III, Stephanie M. White

4th Row from Left:

Andrew D. Lowery, Alistair P. Duffy, Sergio Benedetto, Thamir (Tom) F. Murad, Manfred J. Schindler, Christopher E. Root, Kevin L. Peterson, Keith A. Moore, Stefano Bregni, Anthony Matthew Francis, Deepak Mathur

IEEE Management Council



From Left:

Karen L. Hawkins, Cecelia Jankowski, Jeff Strohschein, Russell Harrison, Mary Ward-Callan, Cheri N. Wideman, Sophia A. Muirhead, Thomas R. Siegert, Kelly Lorne, Jamie Moesch, Donna Hourican, Anta Cisse-Green, Steven Heffner

Message from the Treasurer

It is my privilege to present the IEEE audited financial reports for the fiscal year ending on 31 December 2024. These reports reaffirm that the organization's overall financial health remains strong and resilient. As of year-end, total net assets increased by \$136.6 million, reaching \$1,124.7 million.

As outlined in the Consolidated Statement of Activities, total operating revenue increased by \$62.4 million year-over-year, reaching \$646.4 million. Operating expenses rose by \$65.5 million, totaling \$600.7 million. A summary of key variances is provided below:

- **Periodicals and Media:** Customer demand for IEEE products remained strong. IEEE continued efforts to enhance publication efficiency and reduce costs contributed to a revenue increase of \$29.2 million, while expenses increased by \$22.1 million.
- **Conferences:** The number of conferences held increased by 5.8%. Revenue increased by \$28 million, and expenses increased by \$21.4 million.
- **Membership:** The number of IEEE members increased by 3.2%, in part as a result of reduced dues rates for students and individuals from low-income economies. Revenue increased by \$6.3 million, and expenses increased by \$12.0 million.
- **Standards Association:** Revenue declined by \$0.8 million, while expenses increased by \$4.1 million.

Non-operating activities generated \$90.9 million: \$90.5 million in net gains from investments (inclusive of interest and dividends), \$0.1 million in conference-related insurance claims, \$0.2 million in pension-related gains, and \$0.1 million in unrelated business income tax benefit.

Crowe LLP, the independent auditors for IEEE, met with the IEEE Audit Committee to discuss the scope and results of the financial statement audit, to review the adequacy of IEEE's internal accounting controls, and to examine the quality of IEEE's financial reporting before issuing its opinion on the financial statements. IEEE received an unmodified opinion from Crowe LLP in the Report of Independent Certified Public Accountants.

[Click here to see the Consolidated Financial Statements.](#)

IEEE is a tax-exempt public charity under Section 501(c)(3) of the United States Internal Revenue Code, with a global presence and a mission to advance technology for the benefit of humanity.

I submit these financial statements with confidence that IEEE continues to be a financially sound organization.



A handwritten signature in dark ink, appearing to read 'GB' with a stylized flourish.

Gerardo Barbosa
2024 IEEE Treasurer

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