IEEE Systems Council
Return on Involvement (RoI)

The IEEE Systems Council Return on Involvement (RoI) highlights the substantial, long-term value that comes from active participation, beyond just financial returns. Through the Council, IEEE Member Societies gain access to a wealth of resources that enhance their technical programs, increase visibility, and support their objectives. These include advanced publications, high-impact conferences, specialized technical committees, and opportunities for local engagement through chapters. Participants also benefit from access to distinguished lecturers and expert advisors who can guide education, outreach, and advocacy efforts. Over time, this involvement opens doors to collaboration, knowledge sharing, and the opportunity to shape the future of Systems Engineering, creating lasting value for all involved.

Please visit **ieeesystemscouncil.org**

The IEEE Systems Council fosters and supports the academic foundation and practical application of systems engineering and systems thinking, both through its own initiatives and in collaboration with its Member Societies. The Council addresses complex global technical challenges by integrating IEEE activities across various disciplines and specialty areas of systems engineering. Its focus includes, but is not limited to:

- Systems engineering education, standards, processes, and methodologies
- Systems modeling, simulation, integration, and resilience
- Robust design, safety, human factors, security, usability, and sustainability
- Product transition: design, production, testing, deployment, and disposal
- Program and project management
- Quality and mission assurance
- Requirements development and management
- Risk management
- Systems architecture
- Systems-of-systems

Through these efforts, the Council enables collaboration and innovation that drives solutions for the complex, interrelated challenges of today's global landscape.

The primary objective of the IEEE Systems Council is to promote and engage in multi-Society/Council and multi-association initiatives that align with shared goals and objectives. Key areas where the Council encourages collaboration and participation include:

- Cosponsoring conferences and fostering cooperative interactions with Member Society conferences
- Jointly sponsoring new journals and magazines in emerging areas of common interest
- Establishing a collaborative Distinguished Lecturer Program
- Developing standards in partnership with relevant organizations
- Identifying areas of common interest and exploring opportunities for collaboration
- Promoting a unified, joint technical community approach

These initiatives aim to strengthen cross-disciplinary cooperation and drive impactful solutions across the broader systems engineering ecosystem.

Each Member Society is entitled to two representatives on the Administrative Committee (AdCom) of the IEEE Systems Council. One representative serves as the primary, voting member, while the other serves as the secondary, non-voting member. The IEEE Systems Council AdCom meets twice per year, with travel expenses for these representatives being the responsibility of the Member Society.

Highlights of the IEEE Systems Council

Conferences
(100% sponsor)

IEEE International Systems Conference (SysCon) is held each Spring in North America and averages 250 attendees.

IEEE International Conference on Recent Advances in Systems Science and Engineering (RASSE) is held each Winter in Asia and averages 70 attendees.

IEEE International Symposium on Systems Engineering (ISSE) is held each Fall in Europe and averages 100 attendees.

For a full list of conferences, visit:
ieeesystemscouncil.org/conferences

Publications

The IEEE Systems Journal is a quarterly technical publication of the IEEE Systems Council. It serves as a focused forum for application-oriented research, publishing manuscripts that address complex systems and systems-of-systems with national and global significance. The journal offers a platform for high-impact work that advances the understanding and development of systems engineering across various domains.

ieeesystemscouncil.org/publication/ieee-systems-journal

Co-Sponsored Publications

- Journal on Miniaturization for Air and Space Systems (J-MASS)
- Open Journal of Systems Engineering (OJSE)
- Systems Engineering Body of Knowledge (SEBoK)
- Transactions on Big Data (T-DATA)
- Transactions on Cloud Computing (TCC)
- Transactions on Privacy (T-P)

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Technical Committees

- Analytics and Risk
- Cyber Physical Systems
- Human System Integration
- Hyper-Intelligence
- Intelligent Transportation Design
- Networked Systems
- Systems Biology and Biomedical Systems
- Systems Education
- Systems Engineering Methods
- Security and Privacy in Complex Information Systems
- Systems Thesaurus
- Joint INCOSE/IEEE Systems Engineering and Software Interface
- Joint IEEE Systems Engineering/TEMS TC on Carbon Neutrality

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Distinguished Lecturer Program

The Distinguished Lecturer Program offers subject matter experts who are available to speak at IEEE Chapters, Sections, Societies, and Councils. This program provides a valuable opportunity for members to gain insights from leading experts in various fields of systems engineering, helping to advance knowledge and foster professional development within the IEEE community.

ieeesystemscouncil.org/activities/distinguished-lecturer-program

Chapters

Chapters are local groups formed to promote the field of systems engineering and related disciplines within specific regions. These chapters provide a platform for members to engage in activities, share knowledge, and collaborate on systems-related topics. The leadership of each IEEE Systems Council Chapter is identified on the IEEE Systems Council website, allowing members to connect with local leaders and stay informed about chapter events and initiatives.

ieeesystemscouncil.org/chapters

Member Societies

- Aerospace and Electronic Systems
- Circuits and Systems
- Communications
- Computer
- Consumer Technology
- Control Systems
- Electromagnetic Compatibility
- Industry Applications
- Industrial Electronics
- Information Theory
- Instrumentation and Measurement
- Microwave Theory and Techniques
- Power Electronics
- Product Safety Engineering
- Reliability
- Robotics and Automation
- Social Implications of Technology
- Systems, Man, and Cybernetics
- Technology and Engineering Management
- Vehicular Technology

ieeesystemscouncil.org/about/about-the-council/member-societies

Council Membership Benefits for Societies

The IEEE Systems Council is governed by its Member Societies, each of which plays a direct role in shaping the Council's direction and initiatives.

- Each Member Society appoints two representatives to the Administrative Committee, with one holding a voting seat. This structure ensures that each society has a voice in the Council's decision-making and future activities.

- The IEEE Systems Council has no dues-paying members, only Member Societies and individual participants, therefore the Council is not in competition for society members.

- The IEEE Systems Council's website links directly to each Member Society's homepage, increasing their online visibility.

- The quarterly IEEE Systems Council Newsletter promotes Member Society websites and flagship conferences.

- Member Societies may distribute promotional materials at Council-sponsored conferences.

- Distinguished Lecturers are available to speak at Member Society events, providing expert knowledge and professional development opportunities.

- The IEEE Systems Council delivers value to technology-focused IEEE members involved in systems technology research, development, and applications through technical conferences, presentations, standards, and publications.

- Member Societies can collaborate with the IEEE Systems Council on joint initiatives, further strengthening the collective impact on the global systems engineering community.

Through these initiatives, the IEEE Systems Council enhances the reach, visibility, and effectiveness of its Member Societies while offering valuable services to their members