



About the Systems Council

Formed in 2005

The IEEE Systems Council promotes, encourages, and supports the technical, academic and application aspects of systems engineering and systems thinking through its own activities, and with its Society members through joint activities for the growth of Council Affiliate membership, member Society membership, and for addressing overall global challenges.



About the Systems Council

Field of Interest

The Systems Council integrates IEEE activities regarding aspects of multiple disciplines and specialty areas of systems engineering, and covers, but is not limited to:

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



Executive Committee



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Southwest Research Institute



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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 Society
Robotics and Automation
Social Implications of Technology
Systems, Man, and Cybernetics
Technology and Engineering Management
Vehicular Technology



2024 Member Society Representatives

AESS		Athina Petropulu and Bob Rassa	MTT-S		Greg Lyons and Ke Wu
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COMSOC		Michele Nogueira and Ruidong Li	PSES		Stefan Mozar and Kim Fung Tsang
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CTSOC		Norbert Herencsar and Yu-Cheng Fan	RS		Jason Rupe and Wei Zhang
CSS		Rifat Sipahi and Tansel Yucelen	SSIT		Bozenna Pasik-Duncan and Prasanta Ghosh
EMC		Karen Burnham and Henry Benitez	SMC		Haibin Zhu and Ferat Sahin
IAS		Wei-Jen Lee and Andy Knight	TEMS		Andrea Belz and TBD
IES		Stamatis Karnouskos and Yang Shi	VTS		Alexander Wyglinski and Fabrice Labeau
IMS		Marco Parvis and Vincenzo Piuri			
ITS		Matthieu Bloch and Stark Draper			



Technical Committees

The Systems Council offers opportunities to participate in technical committees in several technical fields of interest related to Systems Engineering. The technical committees hold meetings around the world, typically in conjunction with relevant conferences. Objectives of technical committees include to create IEEE standards and to support IEEE conferences.



Analytics and Risk



Cyber Physical Systems



Human System Integration



Hyper-Intelligence



Intelligent Transportation Design



Networked Systems



Systems Biology and Biomedical Systems



Systems Education



System Engineering Methods



Security and Privacy in Complex Information Systems



Joint INCOSE/IEEE Systems Engineering and Software Interface



Joint IEEE Systems Engineering/TEMS TC on Carbon Neutrality



Systems Thesaurus



Systems Council Chapters/Joint Chapter Locations



28

Section Chapters

18

Student Chapters

18

Countries

7

IEEE Regions

Updated: March 2024



Publications



IEEE Systems Journal

- ▶ Established 2007
- ▶ Impact factor 4.4
- ▶ Median time-to-publication <7 weeks



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)



Newsletter

- ▶ Publishes quarterly
- ▶ Reach of over 22,000 subscribers

Updated: February 2024



[IEEESYSTEMSCOUNCIL.ORG/PUBLICATIONS](https://ieeesystemscouncil.org/publications)



Conferences

SYSCON2024

IEEE International Systems Conference

Montreal, QC, Canada
15-18 April 2024

A full list of events and conferences, call for papers, and registration information can be found on the website.

- ▶ The IEEE Systems Council is willing to sponsor, co-sponsor or technically co-sponsor conferences and workshops in its field of interest.
- ▶ If you are interested in organizing a conference or workshop with the IEEE Systems Council, please submit a preliminary proposal to the VP Conferences by specifying title, location, dates, topics, general and program chairs, and expected number of attendees.



Distinguished Lecturer Program



Objective

Access experts promoting the field of systems engineering.



Highlights

Over 20 DLs with various backgrounds and geo-locations
Online Biography and Talk Titles



Information

Request a Distinguished Lecturer for your event by visiting the website and filling out the form.



Awards

The Council recognizes the contributions and achievements in the systems engineering community by sponsoring numerous awards in the field including the following:



Systems Journal Best Paper Award

- ▶ Given annually to the papers deemed the best among those published in the IEEE Systems Journal during the preceding calendar year
- ▶ **Prize:** A certificate presented to each author and \$500 to be shared among the authors.



Outstanding Service Award

- ▶ To honor long and distinguished service to the IEEE Systems Council at a level of dedication and achievement rarely demonstrated.
- ▶ **Prize:** Plaque and \$,1000



Chapter and Student Branch

Chapter of the Year

- ▶ To recognize one Systems Council Chapter/Student Branch Chapter for significant activity and service to its members.
- ▶ **Prize:** \$1,000 and a Certificate.



Scholarships

- ▶ **James O. Gray Graduate Scholarship**
 - ▶ Recognizes students pursuing graduate studies in process control systems engineering, plant automation, or instrumentation measurement.
 - ▶ 1 - \$6,000 scholarship available
- ▶ **IEEE Systems Council Engineering Undergraduate Scholarship**
 - ▶ Recognizes students pursuing their first professional degree in any engineering discipline.
 - ▶ 2 - \$5,000 scholarships available

All awards, forms, and previous winners are available on the website.



What Can the Council Do For You?

As Systems Council is an IEEE Technical Council and unlike Member Societies, individuals cannot be members of a council. However, IEEE Members can register as Systems Council participants, receive newsletters, attend Systems Council sponsored events, and volunteer. Participation in the Council is free.



Conferences



Awards



Publications



Education



Technical Activities



Networking



How to Get Involved

Become a Systems participant

For free on the IEEE website

Conferences and Events

Organize a meeting, workshop or conference

Review for Systems conferences and Journals

Get involved with local chapters and volunteer to organize activities

Distinguished Lecturers Program

Request a DL at your next event

Apply to become a DL

Volunteer to Serve on Systems Committees

Calls are announced on the website and social media

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Systems news and events!



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