

General chair Qiang Huang, University of Southern California (USC)

General co-chair Satyandra K. Gupta, USC

Program chair Yu Ding, Georgia Tech

Program co-chairs Maria Pia FANTI (Politecnico di Bari), Ken Goldberg (UC Berkeley), Xun Xu (University of Auckland), Chaobo Yan (Xi'an Jiao Tong University)

Special session chairs Paul Bogdan (USC), Kira Barton (University of Michigan), Giancarlo Fortino (University of Calabria), Charyar Mehdi-Souzani (ENS Paris-Saclay), Kamran Paynabar (Georgia Tech), Xi Zhang (Peking University), Hyun-Jung Kim (KAIST)

Workshop tutorial chairs Andrea Matta (Politecnico di Milano), Mengchu Zhou (NJIT)

Award committee chair Bengt Lennartsson (Chalmers University of Technology)

Conference Treasurer Jian Liu (University of Arizona)

Diversity and inclusion chairs Karinne Ramirez Amaro (Chalmers University of Technology), Heeyoung Kim (KAIST), Giulia Pedrielli (Arizona State University), Di Wang (Shanghai Jiao Tong University)

Local committee USC: Ali Abbas (Chair), Paul Bogdan, John Carlson, Yong Chen, Maged Dessouky, Yan Jin, Bhaskar Krishnamachari

Online experience chairs Tangbing Xia (Shanghai Jiao Tong University), Cesar Ruiz (University of Oklahoma), Yuanxiang Wang (Tong Ji University)

Industrial & sponsorship chair Ken Goldberg (UC Berkeley)

Publication chair Liang Zhang (Univ. of Connecticut)

Publicity chairs Mariagrazia Dotoli (Politecnico di Bari), Dezhen Song (Mohamed bin Zayed University of AI), Fugee Tsung (HKUST), Feng Ju (Arizona State University), Yuqian Lu (Univ of Auckland)

Call for Papers

The 2025 IEEE 21st International Conference on Automation Science and Engineering (CASE 2025) is one of the three flagship conferences of the IEEE Robotics & Automation Society and provides a primary forum for cross-industry multidisciplinary research in automation.

CASE 2025 will be held on August 17 – August 21, 2025, in Los Angeles, California, USA. The pre-conference workshops will be held on August 17, 2025. The conference will focus on **Secured and Trustworthy Automation**: Automation systems such as collaborative robotics, self-operating systems and vehicles, smart manufacturing, healthcare, farming, transportation & logistics, and smart cities, increasingly rely on secured and trustworthy automation. Research is needed to overcome vulnerability and bias due to imperfect system design, data collection, machine learning, or control.

The conference will cover a wide range of topics on Systems, Automation, Autonomous Systems, Discrete Event Systems, Smart Cities, Robotics, Building Automation, Automation in Meso, Micro and Nano-scale, Big Data, Machine Learning, Information and Communication Technologies, etc.

- Conference website: <https://2025.ieeecase.org/>
- Conference venue: Millennium Biltmore Downtown Los Angeles, California, USA

Key dates and deadlines

February 8, 2025

- Special session proposal submission

March 1, 2025

- Regular and special session full paper submission

April 1, 2025

- Workshop/tutorial proposal submission Industry paper and work-in-progress paper submission

April 30, 2025

- RA-L, T-RO, RAM, T-ASE presentation-only submission

May 17, 2025

- Paper acceptance notification

June 14, 2025

- Final paper submission Early registration

July 15, 2025

- Final program

August 17, 2025 Pre-conference workshops

August 18, 2025 Conference official start

Contributing

IEEE CASE 2025 invites special session and workshop/tutorial proposals, regular papers, industry papers and presentation-only papers related to the conference topics, which include but are not limited to:

- Foundation of Automation
- Human-centered automation
- Automation in life science and healthcare
- Sustainability and green automation
- Automation in agriculture and horticulture
- Automation in meso, micro and nano-scale
- Smart building and construction
- Knowledge-based automation
- Manufacturing automation
- Cloud-based automation
- Big data, data mining and machine learning
- Privacy and security in automation