



18th IEEE International Conference on Automation Science and Engineering

August 20-24, 2022, Sheraton Maria Isabel Hotel, Mexico City, México

HYBRID MODE

Possibly with a satellite conference site if the COVID-19 pandemic travel restrictions continue

General Chair

Xiaoou Li, CINVESTAV-IPN, México

Program Chair

Jingang Yi, Rutgers U., USA

Program Co-Chairs

Qianchuan Zhao, Tsinghua U., China
Xun Xu, Auckland U., New Zealand
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Publicity Chairs

Asdrúbal López Chau, UAEM, México
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Publication Chair

Jie Song, Peking U., China

Special Session Chairs

Giancarlo Fortino, U. Calabria, Italy
Junliang Wang, Donghua U., China
Giner Alor Hernández, U. Orizaba, México

Yuqian Lu, Auckland U., New Zealand
Feng Ju, Arizona State U. USA
Haibin Zhu, Nipissing U., Canada
Liang Zhao, USP, Brazil

Tutorial/Workshop Chair

Mengchu Zhou, NJIT, USA

Exhibition/Industrial Chairs

Hugo Coyote, Oracle, México
Erick de la Rosa, GE, México

Local Arrangement Chairs

Antonio Ramírez, CINVESTAV, México
Aldo Orozco, CINVESTAV, México

Student Activity Chairs

Marco Morales Aguirre, ITAM, México
Liang Zhao, George Mason U., USA

Advisory Committee

Jingshan Li, Tsinghua U., China
Wen Yu, CINVESTAV, México

Website Committee Chair

Yan Gu, U. Mass. at Lowell, USA

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Bengt Lennartson, Chalmers U. Tech., Sweden
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Judith Esparza, CINVESTAV, México

IEEE International Conference on Automation Science and Engineering (CASE) is the flagship conference of the IEEE Robotics & Automation Society. It provides a primary forum for multidisciplinary research in automation. CASE'2022 will be held in Mexico City on August 20-24, 2022 as an in-person conference with option to participate remotely (i.e., hybrid mode). This is the first time the conference be held in Latin America, which is meaningful for local and international researchers, academics, and practitioners.

Mexico City is one of the largest cities in the world with rich cultural and historical attractions. CASE'2022 will be a unique opportunity for attendees around the world to learn not only about the dynamics of automation science and engineering in Mexico, but also to experience a vibrant nation filled with passion, creativity, and diversity.

Conference Theme: IoT & AI

In the past decades, the advance of the Internet of Things (IoT) and Artificial Intelligence (AI) is tremendous, in both the academic and industrial worlds. IoT and AI can be seen as kinds of automation; IoT and AI technologies are more essential than ever to automation today because of the phenomena of the fourth Industry Revolution, Today's automation is "smarter".

CASE'2022 invites **special session proposals, workshop/tutorial proposals, contributed/special session papers, work-in-progress/industry papers, RA-L/CASE concurrent papers, and T-ASE/T-RO presentation only papers** related to the topics of the conference, which include but are not limited to:

- Adaptive automation systems
- Agent-based collaborative automation systems
- Automated fault diagnostics and prognostics
- Automation in life science
- Autonomous systems
- Cloud-based automation
- Cognitive Automation
- Cyber physical production systems and industry 4.0
- Cybersecurity in automation systems
- Data science and data - driven automation
- Discrete event systems
- Domain specific software & systems engineering
- Huma-machine interactions
- Internet of Things
- Micro- and nano-scale automation technologies and applications
- Operations research
- Power and energy system automation
- Precise agriculture
- Sensor-fusion for intelligent robotics and automation systems
- Smart and connected healthcare automation
- Smart/intelligent manufacturing
- Smart home/building automation
- Smart grids
- Sustainability and green automation

CONFERENCE WEBSITE <http://case2022.org>

PAPER SUBMISSION <http://ras.papercept.net/conferences/scripts/start.pl>

IMPORTANT DATES

Mar. 1, 2022	Special session proposal submission
	RA-L/CASE concurrent paper submission
Mar. 8, 2022	Regular/Special session paper submission
Apr. 15, 2022	Tutorial/workshop proposal submission
	PhD thesis abstract submission
	Industry paper/work-in-progress submission
	T-ASE/T-RO Presentation only submission
May 25, 2022	Paper acceptance notification
June 25, 2022	Final paper submission due
	Early registration due
July 15, 2022	Final program
Aug. 20-24, 2022	Conference

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