



18th IEEE International Conference on Automation Science and Engineering

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

HYBRID MODE

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

General Chair

Xiaoou Li
CINVESTAV-IPN, México

Program Chair

Jingang Yi Rutgers, US

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Publication chairs

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Special session chairs

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Junliang Wang Donghua U, CN
Giner Alor Hernández U. Orizaba, MX

Yuqian Lu Auckland U, NZ

Feng Ju, Arizona State U. US

Haibin Zhu Nipissing U, CN

Liang Zhao USP, BZ

Tutorial/Workshop Chairs

Mengchu Zhou NJIT, USA

Exhibition/Industrial Chairs

Hugo Coyote Oracle, MX

Erick de la Rosa GE, MX

Local Arrangement Chairs

Antonio Ramírez CINVESTAV, MX

Aldo Orozco CINVESTAV, MX

Student activity Chair

Marco Morales Aguirre ITAM, MX

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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. 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, regular papers, work-in-progress and industry 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 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

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| Mar. 1, 2022 | Special session proposal RA-L paper submission |
| Mar. 8, 2022 | Regular/Special Session paper submission |
| Apr. 15, 2022 | Tutorial/workshop proposal PhD thesis abstract Industry paper/work in progress submission T-ASE Presentation only |
| 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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