



CALL FOR PAPERS
IEEE TRANSACTIONS ON
AUTOMATION SCIENCE AND ENGINEERING

IEEE

Special Issue on **IEEE CASE 2019**

The 15th annual IEEE International Conference on Automation Science and Engineering (CASE 2013) was held on August 22-26, 2019, at Vancouver, British Columbia, Canada. IEEE CASE is the flagship automation conference of the IEEE Robotics and Automation Society and constitutes the primary forum for cross-industry and multidisciplinary research in automation. Its goal is to provide a broad coverage and dissemination of foundational research in automation among researchers, academics, and practitioners. The theme of the conference is *Smart Automation*. This special issue is by invitation only.

Scope, Description, and More Information

The 2019 Edition of IEEE CASE covers the topics from Adaptive automation systems; Agent-based collaborative automation systems; Automated fault detection, diagnostics, and prognostics; Automation in life science; Autonomous systems; Big data, data mining, and machine learning; Cloud-based automation; Cognitive Automation; Cyber physical production systems and industry 4.0; Cybersecurity in automation systems; Human-in-the-loop, human-machine interactions, human-robot / robot-robot collaboration; Micro- and nano-scale automation technologies and applications; Modeling, simulation, and optimization of automation systems; Networked control systems; Power and energy system automation; Sensor-fusion for intelligent automation systems; Smart factories, smart logistics and supply chains; Smart products with embedded intelligence; Smart automation in construction and manufacturing; Smart home/building automation; Smart and connected healthcare automation; Standardization in smart manufacturing/home/building/healthcare; and Sustainability and green automation.

Potential Invitations

1. **Best conference paper award finalists (3)**
2. **Best application paper award finalists (3)**
3. **Best student paper award finalists (6)**
4. **Best healthcare automation paper award finalists (3)**
5. **Selected papers with good review ratings (7)**

Important Dates

- Paper submission deadline: **January 15, 2020**
- Completion of the first round review: **April 15, 2020**
- Completion of the second round review: **August 1, 2020**
- Final submission due: **August 15, 2020**
- Tentative publication date: **October 1, 2020 (or January 1, 2021)**

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Paper Submission

All papers are to be submitted through the IEEE's Manuscript Central for Transactions on Automation Science and Engineering <http://mc.manuscriptcentral.com/t-ase>. Please select "Special Issue of IEEE CASE 2019" under Manuscript Category of your submission. All manuscripts must be prepared according to the IEEE Transactions on Automation Science and Engineering publication guidelines <http://www.ieee-ras.org/publications/t-ase>. Please address inquiries to [Lead Guest Editor Email].