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IEEE TRASACTIONS ON AUTOMATION SCIENCE AND ENGINEERING
Special Issue on IEEE CASE 2021

IEEE

The 17th annual IEEE International Conference on Automation Science and Engineering (CASE2021) was held on August 23-27, 2021. CASE2021 is primarily a face-to-face conference held at the Congress Center, Lyon, France with online participation for those who cannot travel to Lyon. 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 **Data-Driven Automation**. This special issue is by invitation only.

Scope, Description, and More Information
The 2021 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, Cloud-based automation, Cognitive Automation, Cyber physical production systems and industry 4.0, Cybersecurity in automation systems, Data science and data-driven automation, Human-in-the-loop, human-machine interactions, human-robot / robot-robot collaboration, Machine learning and artificial intelligence, Micro- and nano-scale automation technologies and applications, Modeling, simulation, and optimization of automation systems, Networked control systems, Operations research, 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 (5)**
4. **Best healthcare automation paper award finalists (3)**
5. **Selected papers with good review ratings (9)**

All invited authors are expected to cite their original CASE2021 paper in their TASE special issue manuscript and clarify the expansion/addition of contents in the Introduction of the TASE submission with respect to the CASE2021 paper and their other relevant papers/submissions.

Important Dates
• Paper submission deadline: February 01, 2022
• Completion of the first round review: April 30, 2022
• Completion of the second round review: August 15, 2022
• Final submission due: August 31, 2022
• Tentative publication date: January 1, 2023

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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 2021" 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 the Guest Editors.