



The 2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2021), is the flagship conference of the IEEE Systems, Man, and Cybernetics Society. It provides an international forum for researchers, educators and practitioners to learn, share knowledge, report most recent innovations and developments, and to exchange ideas and advances in all aspects of systems science and engineering, human-machine systems, and cybernetics. IEEE SMC 2021 will be held in Australia's cultural capital, Melbourne. Contributions to theory and practice, including but not limited to, the following technical areas, are invited:

Systems Science & Engineering

- Autonomy/Autonomous Systems
- Conflict Resolution
- Consumer/Industrial Applications
- Control of Uncertain Systems
- Cooperative Systems and Control
- Decision Support Systems
- Digital Twins, Digital Thread
- Discrete Event Systems
- Distributed Intelligent Systems
- Enterprise Information Systems
- Fault Monitoring and Diagnosis
- Haptically-Enabled Robotics
- Homeland Security
- Industry 4.0, Industry 5.0
- Infrastructure Systems & Services
- Intelligent Green Production Syst.
- Intelligent Power/Energy Systems
- Intelligent Transportation Systems
- Large-Scale Systems of Systems
- Micro and/or Nano Systems
- Multi-Agent Systems
- Quality/Reliability Engineering
- Robotic Systems
- Service Systems & Organization
- Smart Buildings and Infrastructures
- Smart Metering, Smart Cities
- Smart Sensor Networks/IoT
- System Modeling and Control
- Technology Assessment
- Tele-robotics and Tele-operation
- Transdisciplinary Research

Human-Machine Systems

- Assistive Technology
- Augmented Cognition
- Biometrics and Applications
- Brain-Machine Interface Systems
- Cognitive Computing
- Companion Technology
- Cooperative Work in Design
- Entertainment Engineering
- Environmental Sensing,
- Networking & Decision-Making
- Haptic Systems
- Human-Centered Transportation
- Human-Collaborative Robotics
- Human-Computer Interaction
- Human-Machine Cooperation
- Human Factors
- Human Perception in Multimedia
- Human Performance Modeling
- Information Systems for Design and Marketing
- Interactive and Digital Media
- Kansei Engineering
- Medical Informatics
- Multimedia Systems
- Resilience Engineering
- Shared Control
- Systems Safety and Security
- Team Performance & Training
- Virtual and Augmented Reality
- Visual Analytics/Communication
- Wearable Computing

Cybernetics

- AI and Machine Learning
- Artificial Immune Systems & ALife
- Awareness Computing
- Big Data Computing
- Brain-Inspired Cognitive Systems
- Cognitive Situation Management
- Computational Cybernetics
- Computational Collective Intelligence
- Computational Life Science
- Computational Psychophysiology
- Cyber-Medical Systems
- CyberMatics
- Cybernetics for Cyber-Physical Systems
- Evolving Intelligent Systems
- Expert and Knowledge-Based Systems
- Granular Computing
- Information Assurance & Intelligent
- Multimedia-Mobile Communications
- Image Processing/Pattern Recognition
- Intelligent Industrial Systems
- Intelligent Internet Systems
- Intelligent Vehicular Systems & Control
- Knowledge Acquisition
- Machine Vision
- Medical Informatics
- Quantum Cybernetics & Quantum ML
- Self-Organization
- Social and Economic Security
- Social Computing & Social Intelligence
- Soft Computing
- Swarm Intelligence & Engineering

Deadlines
Submission of proposals for Special Sessions:
February 15, 2021

Acceptance notification of Special Sessions:
March 15, 2021

Submission of Regular Papers, Industrial Papers, and Tutorial and Workshop proposals: **April 5, 2021**

Acceptance Notification for Tutorials and Workshops: **April 26, 2021**

Acceptance Notification for Regular, Special Session, and Industrial Papers:
May 24, 2021

Final camera-ready Regular, Special Session, Industrial and Workshop Papers:
July 12, 2021

Deadline for early registration:
August 2, 2021

General Chair: Saeid Nahavandi, Australia

General Co-Chair
Peng Shi, Australia
Edward Tunstel, USA

Program Chair: Anthony Maciejewski
Program Co-Chairs: Lance Fung, David Kaber, Zhi Wei
Publication Co-Chairs: Ljiljana Trajkovic, Abbas Khosravi, Peter Xu
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Special Session Co-Chairs: Daoyi Dong, Xiaolong Wang, Hossam Gabbar, Sam Kwong
Industrial Co-Chairs: Chris Nemeth, Yutaka Hata, Mehran Motamed Ektesabi, Keith Hipel
Poster Co-Chairs: Darius Nahavandi, Alireza Sadeghian
Finance Co-Chairs: Ferat Sahin, Syed Salaken
Registration Co-Chairs: Haibin Zhu, György Eigner, Asim Bhatti
Submission Co-Chairs: Denny Oetomo, Wang Xin, Dmitry Goldgof, Shady Mohamed
Tutorial Co-Chairs: Ching-Chih Tsai, Abdollah Homaifar, Navid Mohajer
Exhibition and Donation Co-Chairs: Vinod Puri, Mo Jamshidi
Workshop Co-Chairs: Chin-Wang W Tao, Mozafar Saadat, Houshyar Asadi, Chao Shen
Program Chair for Quality Control/ Assurance: Giancarlo Fortino
Local Organising Committee: Saeid Nahavandi, Lance Fung, Daoyi Dong, Denny Oetomo, Asim Bhatti, Darius Nahavandi, Syed Salaken, Parham Kebria, Vinod Puri, Mehran Motamed Ektesabi

Regular Papers

Prospective authors are invited to submit full-length papers electronically through the conference website. Papers (6 pages) should be concise but contain sufficient details and references to allow critical review. Papers will be reviewed by at least two referees for technical merit and content.

Special Sessions Papers

Special Sessions provide a focused discussion of new and innovative topics. Special Session proposers should download the special session proposal template from the SMC 2021 website and submit the completed proposal to the Special Sessions Chairs. Special Session organizers should collect at least eight papers. All submitted papers undergo the same review process, and submission to proposed sessions is not a guarantee of acceptance.

Industrial Papers

These contributions are intended to promote contributions from industries on technology development, innovations and implementations, which will facilitate collaboration between industrial and academic members of the SMC community.

Workshop and Tutorial Papers

These contributions are intended to promote contributions from applied research and applications, including work in progress and facilitate increased collaboration between industrial and academic members of the SMC community.

Contact: General Chair

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