

3rd IEEE International Conference on Automation in Manufacturing, Transportation and Logistics (iCaMaL2023)

Nov. 3-5, 2023, Wuhan, China

<https://stle.whut.edu.cn/iCaMaL2023/abo/>



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Theme: Manufacturing, Transportation and Logistics under the Evolution Trend of Digital Economy

The 2023 IEEE International Conference on Automation in Manufacturing, Transportation and Logistics will be held in Wuhan, a historic center city in China. It will feature plenary speeches, panel sessions, tutorials, workshops, interactive sessions, and invited/special sessions. Contributions are expected from academia, industry, and management agencies. **The conference theme is: Manufacturing, Transportation and Logistics under the Evolution Trend of Digital Economy.** Technical topics of the conference are focused on advanced automation methods and technologies on Manufacturing, Transportation and Logistics, including but are not limited to:

Intelligent/Advanced manufacturing
Automated inspection and quality control

Diagnostics and maintenance

Industrial 4.0 system and practice

Advanced mechanism and robots

MEMS/NEMS/Flexible electronics

Energy harvesters/Sensors/Actuators

Smart materials and structures

Topology & Generative design

Mechanical dynamics/Vibration control

Smart and digital supply chains

Risk management of supply chains

Cooperative manufacturing

/logistics/transportation

Intermodal/Multimodal transport

Physical internet

Smart ports/Smart logistics/ITS

Sustainable logistics/shipping

Autonomous transportation

Logistic networking and super network

Port Logistics

Port handling and transport process

Novel/Comprehensive transportation

Traffic risk assessment and control

Container routing/Vehicle routing

Scheduling and resource allocation

Data driven Scheduling/Decision

Coordinated planning/scheduling

Service network design

Multi-level multi-objective optimization

Simulation based optimization/scheduling

Modeling/Simulation/Optimization of

complex systems

Resilience and fault tolerance

Autonomous agents and multi-agents

Decarbonization/Green technology

Formation control/cooperative operation

Human-machine interaction

Facility location/Multiple mode positioning

Autonomous vehicles/ AGV

Mobile robots/Intelligent robots

Remote Driving/Vehicle to everything

Sensor design, integration and fusion

Sensor networks

5G application

Cooperative sensing/control

Big Data technology/management

Block chain

Cyber-physical systems/IoT

Digital Twin/VR/AR/MR/Metaverse

Cloud computing/Edge computing

Deep learning

Machine vision

Artificial intelligence

Sponsors

Wuhan University of Technology; Base for International Science and Technology Cooperation on Smart Shipping and Maritime Safety; Base of Foreign Outstanding Expertise-Introduction for Disciplines Innovation for Smart Shipping and Maritime Safety; Science Technology on Thermal Energy and Power Laboratory

Call for Special Sessions/ Workshop

Interested attendees are encouraged to propose special sessions/workshops, each of which consists of five papers providing a focused discussion of new or innovative topics. Each proposal must include the session/workshop title, description, organizers and affiliations. Proposals should be sent to icamal@whut.edu.cn.

Web Site and Contact Email for Inquires

Email: icamal@whut.edu.cn;

Special session papers will undergo the same intense review process and submission is not a guarantee for acceptance. Special session papers must be clearly indicated when submitted with a copy sent to the designated special session organizer.

Paper Submission

Complete manuscripts must be electronically submitted through the conference submission website: <https://cmt3.research.microsoft.com>.

Submitted manuscripts should be within six (6) pages in IEEE two-column format, including figures, tables, and references. Please use the templates at http://www.ieee.org/conferences_events/conferences/publishing/templates.html from the conference website to prepare your paper. All submissions MUST be in PDF format.

Important Dates

March 30, 2023

Workshop and Special session proposals deadline

April 30, 2023

Detailed abstract submission due

May 30, 2023

Full paper submission due

June 30, 2023

Paper submission due (only for special session)

July 30, 2023

Notification of acceptance

Sept. 30, 2023

Camera-ready copy due

Nov. 3-5, 2023

Conference