

Call For Papers

Special Session: Artificial Intelligence in Cyber-physical System

Conference: The 2022 International Conference on Cyber-physical Social Intelligence (ICCSI)

Date: October 21-24, 2022

Meeting mode: Hybrid

Location: Nanjing, China

Web site: <https://iccsi2022.agist.org>

Cyber-physical system (CPS) generally combine sensor networks with embedded computing to monitor and control the physical environment, with feedback loops that allows this external stimulus to self-activate either communication, control or computing. Due to the multi-time/multi-spatial scale, dynamic structure, complexity of the CPS, there exist many challenges in the perception, control, communication and optimization of CPS. In light of the rapid advancements in artificial intelligence (AI), merging the potential of AI and CPS is a promising way to solve the above challenges and there is an increasing demand for AI-enabled CPS, such as autonomous vehicles, smart grid, intelligent manufacturing, etc. Inspired by that, we host a special session to bring together the research accomplishments provided by researchers from academia and the industry. We encourage prospective authors to submit related distinguished research papers on the subject of both: theoretical approaches and practical case reviews.

Interested topics include (but not limited to):

- AI-enabled perception in CPS
- AI-enabled controlling in CPS
- AI-enabled communication in CPS
- AI-enabled optimization in CPS
- Simulation, evaluation and validation of AI-enabled CPS
- Applications in autonomous vehicles, smart grid, intelligent manufacturing, etc.

Important Dates:

May 15, 2022,	Full paper submission
July 1, 2022,	Acceptance/Rejection notification
August 31, 2022,	Final camera-ready papers due

Special Session Co-chairs:

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