

Special Session on Intelligent Computing in Cyber-Physical Social Systems (CyberIC)

As an emerging paradigm, Cyber-Physical-Social Systems (CPSS) integrating the cyber world, physical world and social world, has triggered enormous attention and research activities. The emergence of Cyber-Physical-Social Systems and its potential to provide services for humans is propelled by the availability of significant advances of computing technologies such as the intelligent computing.

Intelligent computing is a kind of method that uses the inspiration of the natural world's biological law to imitate the design solution based on its principle. The combination of computing and communication has created a new world of intelligent computing. For example, the incorporation of Computer Vision methods into Intelligent Traffic Control systems enhances efficiency, convenience, safety and livability in Smart Cities.

This is a special session of the 9th IEEE Cyber Science and Technology Congress. The session aims to collect the latest original contributions in intelligent computing and related improvements in CPSS, and offer new ideas, experiences and discussions by experts in this field. We encourage the submission of papers with new theory, analysis, methods, and applications.

Please submit your paper via the submission site at: [placeholder], and select the special session of “Intelligent Computing in Cyber-Physical-Social Systems” marked with “CyberIC”.

Accepted papers will be published by IEEE (IEEE-DL and EI indexed). Selected papers, after further extensions and revisions, will be recommended to journal special issues. More details at the conference website: [placeholder].

Topics include but are not limited to:

Operating Systems Practice for CPSS

Security, Trust, and Privacy in CPSS

Safety and Resilience for CPSS

AI and Machine Learning for CPSS (Including Safe Autonomy)

Architectures and Networking for CPSS

Software Platforms and Systems for CPSS

Tools, Testbeds, Demonstrations and Deployments of CPSS

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Important Dates

Paper Submission Due: Jul. 15, 2024

Acceptance Notification Due: Aug. 15, 2024

Final Manuscript Due: Sep. 15, 2024