

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 7th IEEE Cyber Science and Technology Congress. The session aims to collect the latest original contributions in intelligent computing and its applications in Cyber-Physical-Social Systems (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: <http://cyber-science.org/2022/cyberscitech/papersubmissions/>, 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: <http://cyber-science.org/2022/cyberscitech/>.

Topics include but are not limited to:

Evolutionary Computing and Learning

Genetic Algorithms

Particle Swarm Optimization and Niche Technology

Swarm Intelligence and Optimization

Independent Component Analysis

Compressed Sensing and Sparse Coding

Biometrics Recognition

Machine Learning
Intelligent Data Fusion
Intelligent Data Analysis and Prediction
Intelligent Agent and Web Applications
Intelligent Control and Automation
Intelligent Image/Document Retrievals
Intelligent Computing in Smart Cities
Intelligent Computing in Robotics
Intelligent Computing in Finance/Banking
Intelligent Computing in Communication Networks
Intelligent Computing in e-learning
Intelligent Computing in Language Processing
Intelligent Computing in Manufacturing Systems
Intelligent Computing in Electronic Healthcare Systems Organizing

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Important Dates Paper Submission Due: June 1, 2022

Acceptance Notification Due: July 1, 2022

Final Manuscript Due: July 15, 2022