

Call For Papers

Special Session: Big Data Security and Privacy Protection

Conference: The 2023 International Conference on Cyber-physical Social Intelligence (ICCSI)

Date: October 20-23, 2023

Meeting mode: In-person

Location: Xi'an, China

Web site: <https://agist.org/iccsi2023>

Cyber-physical social intelligence has made significant advancements in recent decades. To support the training of artificial intelligence, large datasets are collected from various sources in the real world. With considerable efforts focused on IoT technology and distributed deep learning, the link between cyberspace and the physical world has become stronger. In the context of social intelligence, exploiting the potential of distributed deep learning with powerful mobile computation has become an important and meaningful issue to discuss. However, the widespread use of training data has raised significant concerns about data security and privacy. While many data security and privacy-preserving techniques have been developed to protect personal data, they still face practical limitations, such as ineffectiveness or inefficiency and less user-centeredness. Thus, innovative privacy-preserving techniques are urgently needed to address the social intelligence vs. privacy dilemma in deep learning adequately.

This Special Session aims to advance data security and privacy technologies in social intelligence and promote research activities in large-scale data-based services. The Special Session seeks original studies that focus on addressing emerging issues and challenges related to data security, privacy-preserving methods, and their applications to various areas from a theory- and application-driven perspective.

Interested topics include (but not limited to):

- Privacy computing and data security in Cyber-physical Social Intelligence
- Lightweight authentication mechanisms for Cyber-physical Social Intelligence
- Blockchain and trustworthy networking in Cyber-physical Social Intelligence
- End-to-end communication security, privacy and trust in Cyber-physical Social Intelligence
- Privacy-enhanced network data collection, classification, and analytics in Cyber-physical Social Intelligence
- Incentive mechanisms of trust, secure and privacy management in Cyber-physical Social Intelligence
- Domain specific security, privacy and trust in Cyber-physical Social Intelligence

Important Dates:

March 31, 2023, Letter of intent for paper contribution

May 15, 2023, Full paper submission

July 1, 2023, Acceptance/Rejection notification

August 31, 2023, Final camera-ready papers due

Special Session Co-chairs:

Assoc. Prof. Zhe Sun (Guangzhou University, China), email sunzhe@gzhu.edu.cn

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All inquiries about the session, including the letter of intent, should be sent to any of the co-chairs above