

Call For Papers

Special Session: Deep learning methods and attention models for streaming data

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>

Machine Learning for streaming data has tremendously developed, at both the conceptual and application level, for the past decade. There have been numerous successful realizations of stream-based deep learning methods in many application areas, including object tracking, finance prediction, transportation analysis, weather forecasting, and so on. Recently, some attention models have been integrated into the deep learning frameworks and greatly enhanced the perception ability across the time series. And these new methods brought new opportunities to deal with some complex streaming data in the real world.

This special session aims to bring more focus onto the potential of infusing deep learning framework and attention mechanism capabilities that could allow it to deal more efficiently with more complicated and realistic streaming data. It is expected to bring together the researchers in relevant areas to discuss the latest progress and propose new works.

Interested topics include (but not limited to):

- Deep learning methods for streaming data (e.g., RNNs, LSTM, and Transformer)
- Offline Reinforcement learning methods
- Increment learning for streaming data
- Transfer learning for streaming data
- Interpretability for attention models
- Other perception/prediction/planning schemes for streaming data

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