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Spatial–Temporal Large Language Models for Time-Series Data

Since 2023, large language models (LLMs) have begun to reshape the landscape of time-series analysis. In this talk, we present our latest research, insights, and perspectives on using LLMs to model time-series data—both as a standalone modality and in combination with other spatial or contextual information/modality. We will explore three key questions:

- (1) What are spatiotemporal LLMs?
- (2) How can they be applied effectively to time-series data?
- (3) Why do they succeed—or fail—in practical scenarios?

Special/ Invited session

QSR Session host by Prof. Reisi Gahrooei, Mostafa

Classification

Both methodology and application

Keywords

Large Language Model, Time-series Data

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