Special Issue

Deep Learning for Time-Series Forecasting

Message from the Guest Editors

Deep learning (DL) offers a robust approach to time-series forecasting across diverse domains including energy, climate and environment, healthcare, mobility and transportation, tourism and smart cities more generally, as well as industry and manufacturing, finance, and economics.

Despite the popularity and importance of the integration of forecasting capabilities in decision support systems and decision-making processes, there are numerous challenges when dealing with deep learning for time-series forecasting. In the literature, model-centric studies often focus on complex black-box architectures that achieve high predictive accuracy, but the results need to be explained to be truly actionable.

Recent research is also exploring foundational model approaches capable of predicting heterogeneous time series across multiple domains as well as solutions that exploit large language models (LLMs).

This Special Issue seeks to highlight state-of-the-art methodologies, practical applications, and emerging directions in deep learning for time-series forecasting, emphasizing both methodological innovations and impactful real-world implementations.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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