Special Issue

Graph-Based Learning Methods in Intelligent Transportation Systems

Message from the Guest Editors

Traffic forecasting is a crucial component of intelligent transportation systems, affecting various applications. Due to recent advances in data mining and machine learning, numerous data-driven methods are being adopted to address the problems that occur in traditional schemes, resulting in exceptional performance. Benefiting from the fact that road networks inherently resemble graph structures, i.e., data collection devices on roads are represented as nodes and the connections between the roads are represented as edges, graph-based learning methods are intuitively more suitable to capture the non-Euclidean spatial features of road networks. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Graph-based learning for traffic big data analysis in ITS
- Graph embedding methods for ITS
- Graph-based machine learning for traffic prediction
- Graph representation learning for ITS
- Graph transfer learning for ITS
- Graph-based privacy preserving model in ITS
- Learning from homogenous/heterogeneous transportation networks.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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