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Special Issue on:
Transportation Knowledge Graph for Intelligent Transportation Systems

Background and Motivation
Recently, there has been an emerging trend to take knowledge graph into consideration when analyzing and processing intelligent transportation systems (ITS) data. Knowledge graph with its powerful semantic processing capabilities and open interconnection capabilities has great potential to improve current ITS. Transportation knowledge graph has important values for ITS by providing services like knowledge fusion, semantic search, knowledge recommendation, knowledge answering, and decision making, etc. Although some attempts have been done to explore knowledge graph for ITS, there exist various scientific and engineering challenges including software and hardware development, computational complexity, data multi-source heterogeneity, and privacy protection. This special issue aims to solicit high-quality original research papers, which address the cutting-edge theories, models, and applications for future ITS, supported by advanced transportation knowledge graph technologies.

Relevance and Timeliness
The significance of this special section is to bring the latest theoretical and practical advancements of knowledge graph to the field of intelligent transportation technology. Considering the significance of AI for intelligent transportation systems in Industry 4.0, this special issue will a timely platform to bring together researchers from various areas such as IoT, AI, 5G, data mining, cloud computing, and edge computing, etc.

Paper Types
Research/review/case study/Technical review are welcome.

Topics of interest include, but are not limited to:
- Knowledge discovery from traffic big data based on transportation knowledge graph
- Information management with transportation knowledge graphs
- Applications of transportation knowledge graphs
- Transportation knowledge graph platforms, systems, and architecture
- Link prediction and completing in transportation knowledge graph
- Transportation knowledge graph-based sentiment analysis
- Trend prediction based on transportation knowledge graph embedding
- Application of network representation learning for transportation systems
- Recommender Systems leveraging transportation knowledge graphs
- Transportation knowledge graph-based trust, fraud detection, and cybersecurity

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