International Workshop on Smart Transportation System (STS 2024)

As the rapid integration of transportation discipline with artificial intelligence, communication and computer technologies, the transportation system is experiencing trends towards intelligence, connectivity, and collaboration. The intelligent transportation system closely revolves around the three-dimensional transportation framework, exploring the coupling rules and collaborative operation methods among elements such as participants, vehicles, and infrastructure in the intelligent transportation system. It aims to make the transportation system safer, more efficient, comfortable, economical, convenient, low-carbon, and environmentally friendly. The main development areas of smart transportation include traffic big data, artificial intelligence, autonomous driving, and road-vehicle collaboration technologies, focusing on road traffic system perception integration, planning, design, and management control based on these technologies. Additionally, it encompasses the collaborative perception, digital twins, intelligent computing, and smart operation and maintenance of transportation infrastructure that adapts to the development of road-vehicle collaboration.

This workshop aims to explore a variety of theories, methodologies, algorithms, and applications in the domains of smart transportation system. Possible topics include but are not limited to:

- Big Data of Transportation System

- Road-Vehicle Collaboration

- Heath Monitoring of Transportation Infrastructure and Spatiotemporal Data Mining

- Autonomous Driving

- Digital Twin of Transportation System

- Smart Computing of Transportation System

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