Special Issue

AI-Driven Transportation Systems: Innovations, Challenges, and Future Mobility

Message from the Guest Editors

Intelligent transportation systems (ITS) are part of an interdisciplinary field that focuses on the Internet of Things, big data, and artificial intelligence, optimizing traffic management through multi-source perception, digital healthcare engineering (DHE), real-time communication, and intelligent decision-making. With the integration of AI into transportation systems, a core goal is to improve traffic efficiency, safety, and sustainability through technological means, including scenarios such as real-time road condition monitoring, adaptive signal control, autonomous driving collaboration, and travel demand prediction. ITS integrate transportation engineering, computer science, and urban planning to promote the integration of a "human vehicle road cloud", reduce congestion and carbon emissions, and explore emerging challenges such as autonomous driving ethics and data privacy protection. It is a core supporting discipline for smart cities and future travel ecology. This Special Issue seeks contributions that establish a scholarly foundation for AI-based intelligent transportation systems. For further details, please visit:
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Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

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