



Intelligent Transportation System Influences on Driving Behavior and Traffic Safety

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Deadline for manuscript
submissions:

closed (31 October 2023)

Message from the Guest Editors

Intelligent transportation systems are showing new trends and characteristics, such as vehicle telematics, cooperative vehicle infrastructure system, autonomous driving. Different from the traditional road traffic environment, the perception, cognition, and decision-making behaviors of drivers in the intelligent and connected environment fundamentally change. They present potential opportunities for improved traffic safety, efficiency and energy savings; while the gradual penetration of intelligent connected vehicles also makes the traffic operation characteristics more complicated. Facing the changes in Intelligent Transportation Systems, it urgently needs to research the following issues in this field: analyzing characteristics of travel and driving behavior under the background of intelligent transportation systems, exploring the characteristics of traffic flow and the risk evolution under intelligent transportation system, modeling the impact of intelligent transportation technology on transportation systems; proposing driving behavior intervention and risk control method in the intelligent transportation system.





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