Journal of Advanced Transportation

WILEY | Hindawi

Special Issue on

Advances in Traffic Safety: Advanced Theoretical Models and New Perspectives

CALL FOR PAPERS

Road traffic safety is a global public health and development concern. More than a million people die each year on the world's roads, and this severe road traffic safety situation has attracted the attention of many scholars. The study of road traffic safety has made great progress in recent years, with advances in analytical methods and research tools allowing researchers to provide insights into the complex interactions between travellers, vehicles, roadways, and the environment.

The development of new technologies, such as intelligent transportation systems and autonomous driving technology, has also created new solutions for road traffic safety issues. At the same time, these new technologies can also create new complex road traffic safety scenarios and challenges, such as traffic safety in intelligent and connected environments, or travel behavior in built and special environments, which attracts increasing attention from both academia and industry.

This Special issue aims to provide a platform for researchers, developers, and practitioners from both academia and industry field to explore the latest findings in traffic safety using advanced approaches, theoretical models, and new perspectives. Original research and review articles related to advances in road traffic safety will be considered. All aspects of statistical analyses, machine learning, driving simulator experiments, and naturalistic driving experiments are also of interest.

Potential topics include but are not limited to the following:

- Application of advanced theoretical models and new traffic signal control technologies in traffic safety research
- Emerging approaches and advanced theoretical models in road traffic crash analysis
- Research on driver/rider/pedestrian travel behavior in intelligent and connected environments and in built environments
- Interactions between drivers and other traffic participants, especially in intelligent and connected environment
- Traffic safety related to intelligent and connected vehicles
- Optimization design of road traffic facilities designed to improve road traffic safety
- New theories of traffic safety evaluation considering driver factors and traffic facilities
- Advanced prediction models for predicting crash risk, traffic state, vehicle motion, and travel behavior

Authors can submit their manuscripts through the Manuscript Tracking System at https://review.wiley.com/submit?specialIssue=236379.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Editor
Kun Wang , Anhui Jianzhu University, Hefei, China
wkun@ahjzu.edu.cn

Guest Editors
Yilong Ren, Beihang Univ, Beijing Key Lab Cooperat Vehicle Infrastruct Syst, Sch Transportat Sci & Engn, Beijing 100191, Peoples R China, China
yilongren@buaa.edu.cn

Shuo Yang, Anhui Jianzhu University, Hefei, China
yang_shuo@ahjzu.edu.cn

Submission Deadline
Friday, 5 July 2024

Publication Date
November 2024