

## Special Issue

# Connected, Autonomous Driving and Smart Transportation: Theory, Methodology, Simulation and Optimization

### Message from the Guest Editors

Connected and autonomous driving (CAD) combines wireless communication, intelligent driving, and artificial intelligence technology to realize dynamic information collection and real-time interaction with vehicles and infrastructure. It is of great theoretical significance and practical value to study emerging technologies in connected autonomous driving and smart transportation.

The aim of this Special Issue is to collate original research on connected autonomous driving and smart transportation. We welcome both original research and review articles. Potential topics include, but are not limited to, the following:

1. Perception, prediction, positioning, and navigation methods in connected and autonomous vehicles;
2. Trajectory optimization and control of connected and autonomous vehicles;
3. Advanced driving assistance system;
4. Cooperative management and control methods of connected and autonomous vehicles;
5. Modeling and control methods of mixed traffic flow;
6. AI-enabled, edge-based, and big data methods in smart transportation.

### Guest Editors

Prof. Dr. Fei Hui

Prof. Dr. Daxin Tian

Prof. Dr. Wei Shangguan

### Deadline for manuscript submissions

closed (31 January 2024)



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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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