Artificial Intelligence for Connected and Automated Vehicles

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Message from the Guest Editors

Dear Colleagues,

Connected and automated vehicles (CAVs) will provide greater transport convenience and interconnectivity, increase mobility options for young and elderly people, and reduce traffic accidents, congestion and emissions by exploiting Artificial Intelligence and communication technologies. At the same time, major barriers towards the public deployment of CAVs and the realization of smart cities exist, including the safety evaluation and validation of Artificial Intelligence-based vehicle functions. This Special Issue aims to bring together recent advances in methods and tools in the areas of deep learning, knowledge discovery and forecasting, as well as testing and validation, to make connected and automated vehicles efficient and safe. Particularly, we invite contributions that identify and provide insight into the limitations of Artificial Intelligence-based functions for connected and automated vehicles and/or advance the state of the art by breaking existing limitations.

Keywords

- Deep Learning
- Deep Neural Networks
- Connected Vehicles
- Automated Vehicles
- Big Data
- Smart Cities

Special Issue

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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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