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Optimization and Simulation Techniques for Transportation

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Message from the Guest Editors

Transportation techniques play an important role in the daily lives of humans. In the era of big data, with the development of artificial intelligence technology and big data, optimization and simulation techniques for transportation should go deep into the following aspects: first, AI techniques used in transportation simulation, including road traffic simulation by considering traffic lights and historical traffic information, pedestrian moving simulation based on pedestrian moving behavior and the surrounding environment, and human–car interaction simulation, especially for shared places of vehicles and humans, etc.; second, transportation information mining based on data-driven techniques, including traffic predication, travel mode detection, and road network refining, especially for detailed road information, such as lane-level road information or pedestrian road containing semantic attribute information such as road type, slop, topology, etc.; and third, the function structure optimization of traffic space, which should be linked to space heat estimation, space utilization, and so on.

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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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