

Special Issue

Intelligent Transportation System in the New Normal Era

Message from the Guest Editors

As a core use case for smart cities, transportation still poses significant challenges for metropolitan areas. Alleviating traffic congestion hinges on the ability of Intelligent Transportation Systems (ITSs) to predict traffic states, and improve passenger flow via public transportation demand prediction. This requires modeling complex spatiotemporal correlations among neighboring regions, while also considering external factors such as traffic events, holidays, and weather conditions. Road traffic accidents are another major factor behind traffic congestion; in this direction, further research efforts are needed on traffic incident detection and prevention, leveraging data mined from traffic or dashboard cameras, and even social media.

Considering the above ITS challenges, potential topics for this special edition include but are not limited to the following: Machine Learning for Traffic Big Data Analysis in ITS; Sustainable Management theory and application; Intelligent traffic control in ITS; Learning from Homogenous/Heterogeneous Transportation Networks; Sensing and vehicle driving in ITS environment and others.

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