Special Issue

Future Road Geometric Design

Message from the Guest Editors

Emerging advanced driver assistance, automated driving, and vehicle–infrastructure cooperation in automated driving technologies are increasingly being deployed around the world, and it is a matter of time before the transportation landscape changes dramatically. Predicting the brand-new requirements of these technologies for roadway infrastructures has become one of the critical tasks in boosting their implementations. As a feasible form of Future Road, digital roadway infrastructures (DRI) are receiving exponentially increasing attention from both academia and industry. Through digital devices or sensors integrated with advanced information and communication technology, DRI can exchange sensing data with automated vehicles and facilitate vehicles to realize collaborative perception, decision-making, and kinematic control. For meeting the circumstances of mixed automation technologies and human-machine interaction technology, it is important to explore whether the geometric design controls for DRI are more or less rigorous than the existing human specifications.

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