Special Issue

Vehicle-to-Everything (V2X) Communication Networks

Message from the Guest Editors

In modern smart transportation systems, vehicles and other road users are equipped with smart sensors and are interconnected to form an Internet-of-Vehicles (IoV). This facilitates advanced vehicular applications based on multi-sensor data acquisition and processing to provide efficient and safe transportation. Vehicles now can coordinate with other vehicles, bicyclists, pedestrians, road-side sensors, and infrastructures over vehicle-to-everything (V2X) communication networks. Hence, V2X communication is now bidirectional and extends to vehicle-to-infrastructure (V2I or I2V), vehicle-to-vehicle (V2V), vehicle-to-pedestrian (V2P or P2V), or vehicle-to-network (V2N) communication. V2X communication enables road users to receive augmented information from other road users by incorporating various vehicular sensors and exchanging the data from those sensors over wireless technologies. Authors are encouraged to submit their research with focuses on theoretical, methodological, or practical aspects, such as simulation models, real-world experiments, algorithms, and applications concerning V2X communications.

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