

Special Issue

Internet of Vehicles— Opportunities, Challenges, and Future Prospects

Message from the Guest Editors

The emerging and promising paradigm of the Internet of Things (IoT) has gained considerable momentum over the past two decades or so and is considered a key technological enabler for the successful realization of a number of application domains. In particular, in the context of smart cities, the recent technological breakthroughs in the IoT and vehicular ad hoc networks, and their intelligent convergence, have transformed vehicles into smart objects, thereby paving the way for the evolution of the promising paradigm of the Internet of Vehicles (IoV). Simply put, the IoV is attributed to IoT-on-wheels, wherein vehicles as formidable sensor platforms accumulate and process the flood of data to extract and subsequently broadcast meaningful safety-critical information amongst one another and in their immediate environment via vehicle-to-everything communication for guaranteeing highly reliable and intelligent traffic flows.

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