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Wireless Communication Systems and Artificial Intelligence for Future Vehicles

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Message from the Guest Editors

Communication V2X plays a significant role in improving road safety and optimizing traffic management. Wireless communication allows sharing a large amount of data collected from hundreds of embedded sensors, encompassing all the communications between a vehicle and its environment.

Beyond the need for high data rates for V2X communication—which has been the main driver of wireless network evolution in the past decade—next-generation V2X wireless communication must be able to deliver excellent reliability, energy autonomy, good quality-of-service (QoS), and low-latency in communication, that is adaptive, in real-time, for dynamic communication systems. These requirements mandate a fundamental change in the way in which wireless networks are studied, modeled, designed, and optimized.

The main focus of this Special Issue is the research challenges relating to the new generation of V2X communication and AI's contribution to improving the performance of these communications.

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Message from the Editor-in-Chief

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