Special Issue

Wireless Communications for Smart Mobility Systems

Message from the Guest Editors

The rapid advancement of wireless communication technologies is reshaping modern smart mobility systems (SMS) by enabling seamless connectivity, ultra-reliable low-latency communication (URLLC), and intelligent networks. The next generation of wireless networks, particularly 6G, will play a transformative role in transportation, supporting connected and autonomous vehicles (CAVs), future railway mobile communication systems (FRMCS), and urban aerial mobility (UAM). Emerging wireless communication paradigms—such as millimeter-wave (mmWave) and terahertz (THz) communication, massive MIMO, reconfigurable intelligent surfaces (RIS), and integrated sensing and communication (ISAC)—will be crucial in addressing the stringent requirements of high-mobility environments. This Special Issue focuses on cutting-edge research in wireless communication for smart mobility, covering areas including but not limited to the following: Wireless Communication Technologies for Smart Mobility Systems; AI-Assisted Solutions for Wireless Smart Mobility Systems; Security, Privacy, and Sustainability in SMS; Experiments, Prototypes, and Field Trials.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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