

Special Issue

Advanced Wireless Positioning and Sensing Technologies

Message from the Guest Editors

The evolution of mobile communication standards from 2G to 5G has been accompanied by the emergence of several new services and usages. The fifth-generation new radio (NR) presented in 2020 has completed its development cycle and has reached a level of maturity that allows it to be deployed. In fact, it is already necessary to prospect for new technologies that will enable the correction of shortcomings observed in the field of information technology to have precise, reliable, and fast localization. It is worth emphasizing that localization, sensing, and communication must all coexist, sharing the same time-frequency-spatial resources in the envisioned future communication systems. There are different mechanisms to enable such sharing, including coexistence, cooperation, and co-design. In fact, sensing and location information can guide communication, e.g., for beamforming or for handovers, while communication can support localization and sensing by sharing map information between devices.

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