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Integrated Communication, Localization and Sensing towards 6G

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Dear Colleagues,

Investigations on 6G are now well underway and several large initiatives have been launched to define this new generation of wireless networks. In addition to communications, many emerging services in 6G are also based on localization and sensing. Traditional communication and radio sensing (including radar sensing and wireless localization) systems are usually designed separately, and occupy different frequency bands. However, due to the wide deployment of millimeter wave and massive MIMO technologies, communication signals in future wireless systems will tend to have a high resolution in both the time and angular domains, thus enabling high-accuracy sensing using communication signals. As such, the integration of radio sensing, localization, and communications holds great potential in many spectrums and cost-limited scenarios, such as autonomous vehicle networking, Wi-Fi-based indoor localization, collaborative sensing, etc.

The goal of this Special Issue is to support a broad and diverse set of viewpoints from industry and academia on the development of specific technological enablers.

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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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