Special Issue

Advances in 5G High-Precision Positioning

Message from the Guest Editor

High-accuracy positioning is a prerequisite for many advanced location-based services in future mobile networks. Ranging from autonomous driving to industrial IoT, research on 5G high-precision positioning is running smoothly.

It should be noted that research on 5G positioning focuses not only on the incremental evolution of currently operating methods such as cell-ID, RSS, and TDoA, but also on using new technologies and paradigms such as multi-RTT, DL-AoD, and UL-AoA. Apart from conventional positioning methods, multisensor fusion and intelligent algorithms are promising to overcome the challenge of robust submeter accuracy in multipath and NLoS environments. These research directions provide rich opportunities to extend 5G high-precision positioning to more ubiquitous and mobile applications.

In this Special Issue, we invite submissions exploring recent advances in the fields of 5G high-precision positioning, aiming to address more in-depth research for integrated sensing and communication in future cellular networks. Both theoretical and experimental studies are welcomed, as well as comprehensive review and survey papers.

Guest Editor

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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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