Advances in 5G High-Precision Positioning

Guest Editor:

Dr. Shengheng Liu
School of Information Science and Engineering, Southeast University, Nanjing 210096, China

Deadline for manuscript submissions:
closed (28 July 2022)

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.

Special Issue

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us