Next Generation Indoor Positioning Systems

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Message from the Guest Editors

The positioning of humans, robots, and electronic devices is quintessential for a myriad of modern applications. For over two decades, researchers have been exploring various technologies (e.g., WiFi, inertial measurement units, ultra-wideband, Bluetooth, 5G), techniques (e.g., received signal strength indicator, time of arrival/flight), and methods (e.g., pedestrian dead reckoning and fingerprinting-based methods), without a clear winning combination, even for similar scenarios/applications. This Special Issue solicits original research articles contributing to the state-of-the-art in indoor positioning systems, including novel conceptual and theoretical solutions, the validation and evaluation of new or existing systems, comparative studies, data sets, and practical applications of indoor positioning systems. Authors are encouraged to apply reproducibility practices, making the datasets, algorithms and programming code publicly available.

Topics of interest include but are not limited to:

- New technologies for indoor positioning systems (e.g., 5G, 6G);
- Robustness, deployability and cost of indoor positioning systems.

Special Issue

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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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