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Machine Learning for Indoor Localization and Navigation

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Message from the Guest Editor

As digitalization and automation continue to extend their reach, the need for accurate indoor location information has become increasingly important. In recent years, numerous researchers have explored ways to overcome the limitations of traditional indoor localization using machine learning algorithms. There are vast opportunities for machine learning to enhance indoor positioning, including RF SLAM, visual SLAM, fusion algorithms, BLE and UWB signal processing, PDR/INS, seamless tracking, and industrial localization, among others, which remain areas that require further study.

This Special Issue aims to bring together machine learning applications for indoor localization and navigation, presenting theoretical ideas, practical recommendations, experimental designs, data analysis, and real-world applications.

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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