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Intelligent Wireless Sensing and Positioning

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Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

With the rapid development of communication techniques, emerging wireless communication techniques like mmWave and MIMO have become popular to support applications which demand a high data rate, such as new standard WiFi and 5G networks. In addition to communication, these wireless signals have been investigated to support sensing with high accuracy, such as activity sensing, people positioning, and object detection. Hence, integrated sensing and communication have become an emerging topic in the future 6G networks. Traditional sensing approaches such as LIDAR and computer vision suffer from the drawbacks of optical imaging and are strongly affected by the weather conditions of surrounding environments. Compared with these traditional sensing approaches, wireless sensing is more suitable for ubiquitous sensing in all weather. However, wireless sensing (e.g., based on WiFi and mmWave) is still very challenging because it is prone to multipath propagation and sparse point clouds. In this Special Issue, we aim to organize a forum for the presentation of new, improved, and developing techniques in the general area of wireless sensing and positioning.



mdpi.com/si/112557

Special Issue



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Message from the Editor-in-Chief

Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

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