



Advances in Pedestrian Positioning and Navigation Based on Ultra-Wideband Technology

Guest Editors:

Dr. Vincenzo Di Pietra

Department of Environment,
Land and Infrastructure
Engineering (DIATI), Politecnico
di Torino, 10129 Torino, Italy

Dr. Paolo Dabove

Department of Environment,
Land, and Infrastructure
Engineering (DIATI), Politecnico
di Torino, 10129 Torino, Italy

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submissions:

closed (15 August 2025)

Message from the Guest Editors

This Special Issue aims to explore the latest advances in the field of accurate positioning technologies, with a focus in particular on the use of ultra-wideband (UWB) technology. This Special Issue is committed to providing a comprehensive overview of innovative technologies, solutions, and applications, with a special focus on UWB positioning in smartphones.

For this Special Issue, we invite submissions that focus on several key themes, including, but not limited to, the following:

- The application of UWB technology in smartphones for precise positioning in various environments (indoor, outdoor, mixed) and conditions (static, dynamic).
- Evaluations of system parameters such as accuracy, coverage area, integrity, availability, and robustness in UWB-enabled devices. Analysis of multiuser positioning systems to assess scalability and performance in crowded environments.
- Technical challenges and solutions related to accessing raw data from smartphones, including range, signal strength, and angle of arrival.
- Case studies or experimental research that showcase the application of UWB technology in real-world scenarios.





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Editors-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and
Geographic Information Systems,
Peking University, Beijing, China

Message from the Editorial Board

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Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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