



Indoor Positioning Techniques

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Message from the Guest Editors

Indoor positioning techniques (IPTs) are a strong enabler for various fields of applications, including location-based services, ambient assisted living, line traceability, simultaneous localization and mapping, telemanipulation, and Industry 4.0.

As a result of the reduced effectiveness of Global Navigation Satellite Systems (GNSS) in indoor environments, several IPS techniques were developed over the years. The approaches mentioned in the literature include image recognition techniques, inertial measurements, and the measurement of specific parameters of different signals, including ultrasounds, radio frequency waves, or magnetic fields. Various parameters may be measured, such as the direction of arrival, time domain quantities, and received signal strength.

This Special Issue targets novel research results for IPTs, focused mostly, but not exclusively, on sensor characteristics, node architecture and connectivity, design tradeoffs, positioning algorithms, and overall positioning and tracking performance.

- Indoor positioning
- Tracking
- Navigation
- Sensors
- Node and network architecture
- Sensor fusion
- Measurement principles
- Accuracy





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Message from the Editor-in-Chief

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