

Special Issue

Indoor Positioning with Wireless Local Area Networks (WLAN)

Message from the Guest Editor

Topics of interest include, but are not limited to, the following areas:

- Positioning technologies: RSS, TOA, TDOA, AOA, RTT, fingerprinting
- Tracking methods: Bayesian approaches, Kalman filters, particle filters
- Sensor fusion: inertial sensors, magnetometer, barometer, etc.
- Hybrid positioning solutions
- Complementing 5G positioning with WLAN-based systems
- Crowdsourcing methods for collecting fingerprints
- Simultaneous Localization and Mapping (SLAM)
- Fingerprint database compression
- Machine learning for WLAN-based positioning
- WLAN channel modeling for positioning
- WLAN channel measurements for positioning
- Seamless outdoor-to-indoor transition (e.g. from GNSS to WLAN)
- Floor detection methods
- 3D-positioning
- Optimal network configuration and access point deployment for positioning
- Location-based services
- Security aspects of WLAN-based positioning

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2022)



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