Special Session

"Wi-Fi CSI-Based Indoor Positioning"

Abstract

Wi-Fi Channel State Information has gained attention over the last few years not only to perform active positioning but also for device-free localization and other related tasks such as human activity recognition. While early research was restricted to dedicated LAN cards and specific hardware & software combinations, CSI data is becoming nowadays more available thanks to the interfaces and libraries that allow to extract this information from low-cost, low-power SOC microcontrollers with integrated Wi-Fi interface.

This Special Session is devoted to report state-of-the-art positioning, navigation and tracking methods using CSI data in relevant scenarios for the IPIN community, including deployments to support positioning services in large environments such hospitals or shopping malls.

In this Special Session, we invite authors to submit papers related (but not limited) to:

- Tools enabling CSI data collection
- CSI Data collection
- CSI Data cleansing
- CSI Data processing
- CSI-based active positioning
- CSI-based human activity recognition
- CSI-based device-free Tracking
- Disruptive applications
- Open relevant datasets

Keywords:
CSI; tools for data collection; data collection and processing; data descriptors;

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Important Dates

- Submission deadline: 15 May 2023
- Notification of acceptance: 21 June 2023

Manuscripts are submitted according to the IPIN 2023 Conference instructions for authors. Papers undergo a single-blind review process by at least two reviewers. Accepted regular papers are submitted to IEEE Xplore Digital Library, accepted WiP papers to CEUR-WS.org, which is currently indexed by Scopus, Ei Compendex and DBLP.

Submit your paper now in *https://softconf.com/n/ipin2023/*

If you have any further questions, please contact: Antoni Perez-Navarro (aperezn@uoc.edu); Joaquín Torres-Sospedra (jtorres@algoritmi.uminho.pt) ; Raúl Montoliu (montoliu@uji.es)