



Special Session

“Open Research Data and Reproducibility in Indoor Positioning Research”

Abstract

The community of indoor positioning research has identified the need for a shift towards a more reproducible and open research paradigm. Over the last years, a slowly increasing tendency of openly sharing data and code has been observed in field, facilitating the establishment of baselines and benchmarks, assisting the reproducibility, verifiability, and comparability of scientific results. Nevertheless, accompanying research results with Open Research Data (ORD) does not constitute yet the de facto standard option in Indoor Positioning, as it does in other fields such as, for instance, in Machine Learning research.

Important aspects regarding the data collection methodology, the data format, the metadata and the overall documentation are often decided individually by the authors that chose to share ORD. Furthermore, such decisions might not be subjected to peer review since ORD are often shared as supplementary material of publications. Thus, the extent to which those materials are well documented and reusable in practice relies on the rigor and the motivation of the authors. Evaluating the current status of our community in terms of Research Reproducibility and of compliance with the best practices of Open Science, and motivating a fast pace of the Indoor Positioning community towards that direction is considered imperative.

The goal of this Special Session is to promote and foster the dialogue of the Indoor Positioning community over the topics of ORD and Research Reproducibility, and to motivate the work towards this direction.

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

- Presenting new ORD material (new datasets, new relevant code/software, etc.)
- Accompanying your paper's claims with supplementary material, guarantying the reproducibility of the paper's experiments and the verifiability of its claims
- Surveys providing a literature review of ORD practices, tools, platforms, and relevant available datasets and code/software in Indoor Positioning
- Works evaluating the current extend of (re)use of ORD in the field
- Replication studies of works of the field
- Reviewing existing replication studies of the field
- Studying/evaluating the extend of reproducibility/ replicability of works of the field

Keywords

Open Research Data, Open Source, Research Reproducibility, Replication Studies

Organizers

- Grigorios Anagnostopoulos
- Joaquin Torres-Sospedra

Suggested Reviewers

- Nino Crivello
- Paolo Barsocchi
- Christos Laoudias
- Michael Aernouts
- Fernando J. Álvarez
- Elena-Simona Lohan
- Francesco Potortì

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 Compindex and DBLP.

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

If you have any further questions, please contact Dr. Grigorios Anagnostopoulos
(Grigorios.Anagnostopoulos@hesge.ch)