IPIN 2021
ELEVENTH INTERNATIONAL CONFERENCE ON
INDOOR POSITIONING
AND INDOOR NAVIGATION
29 Nov. – 2 Dec. 2021, Lloret de Mar, Spain

Special Session
"Experimental Evaluation of Visible Light Positioning"

Abstract
Visible Light Positioning (VLP) is a relatively new positioning technology, whereby light signals are being used as a means for localizing objects. VLP is being regarded as an alternative for Ultra-Wideband (UWB) localisation, with similar indoor accuracies, below 30 cm. Many of the research works on VLP still focus on simulations. Experimental accuracy is often much worse though, due to imperfections in the configuration such as transmitter or receiver tilt, signal imperfections, light reflections or blockages, deviations in the LEDs' radiation pattern,...

This special session aims to discuss experimental evaluations of VLP configurations and showcase advancements in the field of VLP. It specifically focuses on photodiode-based receivers, camera-based systems are out-of-scope for this session. The session will contribute to a better assessment of the future potential of photodiode-based VLP, as an alternative for other accurate indoor positioning technologies.

Keywords
Visible Light Positioning, photodiode, experiment, signal processing, algorithm

Technical Program Committee
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Important Dates
- Submission deadline: 15 May 2021
- Notification of acceptance: 21 June 2021

Manuscripts are submitted according to the IPIN 2021 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.

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