



Special Session “WPTLoc: Localization Techniques in Wireless Power Transfer System”

Abstract

Wireless power transfer (WPT) has enabled continuously long range power supply without any power lines for various electronic devices. Recently, the localization requirements are mentioned for both magnetic resonance and radio frequency WPT systems. These requirements are mainly related to the indoor localization applications. In this session, we attempt to invite the state-of-art works about the recent progress in localization issues of WPT. Areas of interest in this session include, but are not limited to the following: (1) Localization and modeling method for magnetic resonance WPT system. (2) Machine learning or AI based localization for magnetic resonance system. (3) Algorithms for RF based WPT passive anchors. (4) Fundamental limits analysis methods for cooperative or non-cooperative RF based WPT sensors. (5) Beamforming and resource allocation schemes for indoor localization WPT systems. (6) Testbed and potential applications.

Keywords

Wireless power transfer, magnetic resonance, RF wireless charging, beamforming, CRLB

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Important Dates

- Submission deadline: 15 May 2021
- Notification of acceptance: 21 June 2021

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