Special Issue

Indoor Localization Using Wireless Sensor Networks

Message from the Guest Editor

Indoor localization systems using wireless sensor networks (WSNs) have been used for a variety of industrial purposes, such as target tracking and human localization. WSNs for indoor localization utilize various wireless communication technologies, such as radiofrequency identification (RFID), ultrawide band (UWB), and chirp spread spectrum (CSS). Indoor localization algorithms estimate positions of targets using wireless measurements, such as time of arrival (TOA), time difference of arrival (TDOA), and received signal strength (RSS). Various stochastic filters, including the Kalman filter, particle filter, and finite impulse response (FIR) filter, have been studied and successfully applied to indoor localization. This Special Issue focuses on the design, analysis, and implementation of indoor localization systems using WSNs. The topics of interest include but are not limited to:

- Implementation of indoor localization system using WSNs;
- Indoor localization algorithm using WSNs;
- Signal processing for indoor localization using WSNs;
- Stochastic filters (state estimators) for indoor localization;
- Analysis of indoor localization technologies using WSNs.

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