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Advanced Localization System: From Theory to Applications

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Message from the Guest Editor

Localization systems are systems that provide information on the positions of human, robot, and equipment to the users, and they have been used in various fields, such as factories, construction sites, and hospitals. In the future, localization systems will be used for more diverse fields. In recent years, the emerging Internet of Things (IoT) has accelerated research on advanced localization technologies because it requires accurate and reliable position information of various digital devices in cluttered indoor spaces. Localization systems typically use measurements of wireless signals, such as WiFi and UWB, and they are related to the fields of wireless communications. To compute the coordinates of targets, localization systems use some mathematical tools, such as least square methods or state estimation algorithms, which are related to the mathematical/control theory. In addition, localization systems are essential parts in the navigation of unmanned aerial/ground vehicles. Since the localization systems are related to the recently emerging technologies, we need to investigate state-of-the-art localization algorithms and their applications.

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