

UWB outdoor and indoor base stations are used together

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In the substation environment of the power system, accurate positioning technology is of great significance for ensuring personnel safety, improving operation and maintenance efficiency, ...

Ultra-wideband (UWB) is one of the most widely adopted techniques. However, the base station placement significantly influences the system's positioning accuracy, especially ...

The system's positioning performance is assessed via various sets of trajectory experiments, demonstrating that the suggested UWB/GNSS/IMU multi-sensor fusion ...

Through theoretical analysis and simulation, a model of the influence of the geometric distribution of base stations on the UWB positioning precision is established.

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In response to the challenges faced by UWB positioning methods in long and narrow indoor environments as well as conventional scenarios, this paper proposes UWB ...

UWB is a short-range radio technology precisely pinpointing and measuring the distance between other UWB-equipped devices. It can be used for positioning by utilizing the time difference of ...

In this paper, we mathematically analyze the impact of the localization solution for coplanar base stations and derive the expression for the localization accuracy performance.

Wide area indoor positioning technology requires the cooperation of large base stations and positioning

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equipment, which has high positioning cost and unstable signal, while ...

Presently, positioning services are provided outdoors and indoors. In the outdoor environment, the satellite navigation system with an accuracy of one meter is used for ...

UWB is a short-range radio technology precisely pinpointing and measuring the distance between other UWB-equipped devices. It can be used for ...

Compared to outdoor environments, indoor environments are more complex because of the presence of various signal interference and obstacles, which seriously affects ...

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