Ultra-wideband Positioning Systems: Theoretical Limits, Ranging Algorithms, and Protocols

Zafer Sahinoglu, Sinan Gezici, Ismail Güvenc

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Position estimation of wireless devices has many applications in short-range networks. Ultra-wideband (UWB) signals provide accurate positioning capabilities that can be harnessed in wireless systems to realise these applications. This text provides detailed coverage of UWB positioning systems, offering comprehensive treatment of signal and receiver design for ranging, range estimation techniques, theoretical performance bounds, ranging algorithms and protocols. Beginning with a discussion of the potential applications of wireless positioning, and investigating UWB signals for such applications, later chapters establish a signal processing framework for analysing UWB positioning and ranging systems. The recent IEEE 802.15.4a standard related to UWB is also studied in detail. Each chapter contains examples, problems and Matlab scripts to help readers grasp key concepts. This is an ideal text for graduate students and researchers in electrical and computer engineering, and practitioners in the communications industry, particularly those in wireless communications. Further resources are available at www.cambridge.org/9780521873093.

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