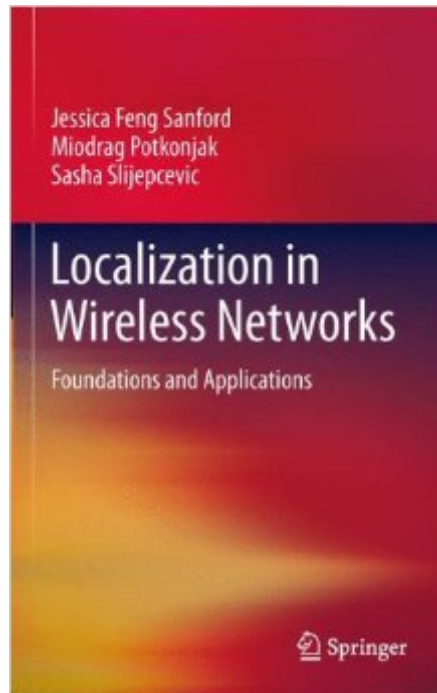# Localization In Wireless Networks: Foundations And Applications

Synopsis

In a computational tour-de-force, this volume wipes away a host of problems related to location discovery in wireless ad-hoc sensor networks. WASNs have recognized potential in many applications that are location-dependent, yet are heavily constrained by factors such as cost and energy consumption. Their â œad-hocâ • nature, with direct rather than mediated connections between a network of wireless devices, adds another layer of difficulty.Â Basing this work entirely on data-driven, coordinated algorithms, the authorâ ™s aim is to present location discovery techniques that are highly accurateâ •and which fit user criteria. The research deploys nonparametric statistical methods and relies on the concept of joint probability to construct error (including location error) models and environmental field models. It also addresses system issues such as the broadcast and scheduling of the beacon. Reporting an impressive accuracy gain of almost 17 percent, and organized in a clear, sequential manner, this book represents a stride forward in wireless localization.

Book Information

Hardcover: 200 pages

Publisher: Springer; 2012 edition (May 3, 2012)

Language: English

ISBN-10: 1461418380

ISBN-13: 978-1461418382

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 15.5 ounces (View shipping rates and policies)

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Protocol for Wireless Localization Systems: Communications Protocol for RF-based Wireless Indoor Localization Networks Wireless and Mobile Networking: IFIP Joint Conference on Mobile Wireless Communications Networks (MWCN'2008) and Personal Wireless Communications ... in Information and Communication Technology) Localization in Wireless Sensor Network: An enhanced composite

approach with mobile beacon shortest path to solve localization problem in wireless sensor network Localization in Wireless Networks: Foundations and Applications Enhancing Indoor Localization with Proximity Information in WSN: A novel way of enhancing indoor localization in wireless sensor networks Secure Localization and Time Synchronization for Wireless Sensor and Ad Hoc Networks (Advances in Information Security) Location, Localization, and Localizability: Location-awareness Technology for Wireless Networks Location Determination within Wireless Networks: Dynamic indoor/outdoor Localization Systems: Algorithm Design, Performance Analysis and Comparison Study RF-based Indoor Localization in Sensor Networks: Localization Using Signal Fingerprinting Nutritional Foundations and Clinical Applications: A Nursing Approach, 5e (Foundations and Clinical Applications of Nutrition) Wireless Hacking: Projects for Wi-Fi Enthusiasts: Cut the cord and discover the world of wireless hacks! Principles of Wireless Access and Localization Introduction to Wireless Localization: With iPhone SDK Examples Brilliant Home &Wireless Networks Wireless Lans: Implementing Interoperable Networks SNMP Over Wi-Fi Wireless Networks Deploying License-Free Wireless Wide-Area Networks Wireless Sensor Networks: Third European Workshop, EWSN 2006, Zurich, Switzerland, February 13-15, 2006, Proceedings (Lecture Notes in Computer Science) Parallel and Distributed Map Merging and Localization: Algorithms, Tools and Strategies for Robotic Networks (SpringerBriefs in Computer Science) Deep Learning: Natural Language Processing in Python with Recursive Neural Networks: Recursive Neural (Tensor) Networks in Theano (Deep Learning and Natural Language Processing Book 3)

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