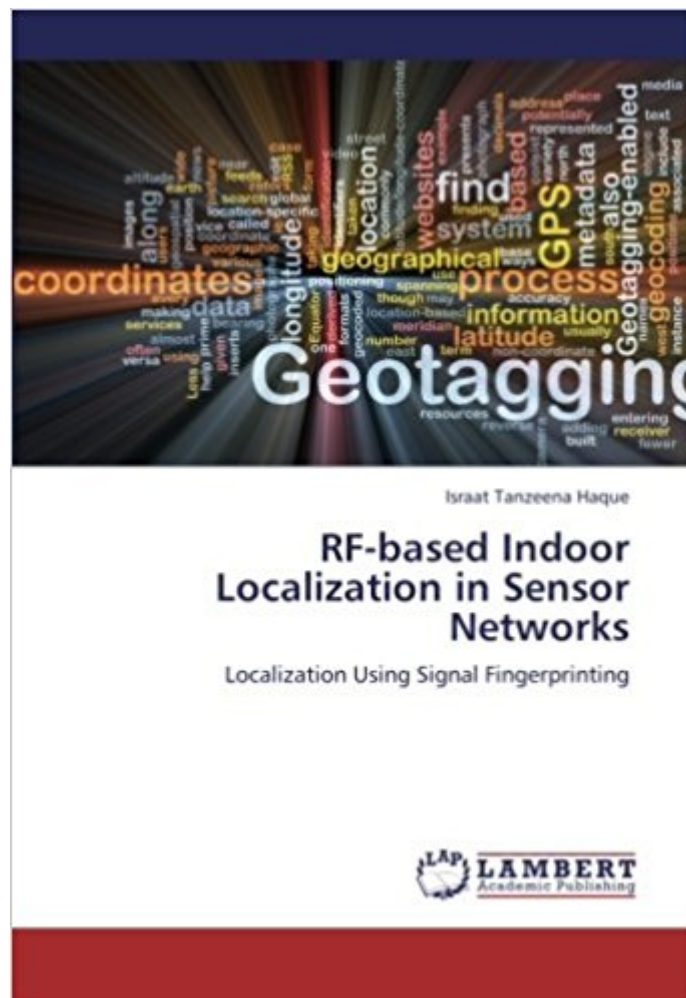


Ebook Directory
the best source of ebook

The book was found

RF-based Indoor Localization In Sensor Networks: Localization Using Signal Fingerprinting



Synopsis

In this book a Received Signal Strength (RSS) based indoor localization system, dubbed LEMON, based on low-cost low-power wireless devices is proposed, which offers better accuracy than the state-of-the-art. A simple RSS scaling trick is then used to further improve the accuracy of LEMON. Furthermore, we study the effect of the node orientation, the number and the arrangement of the infrastructure nodes and the profiled samples, leading us to further insights about what can be effective node placement and profiling. We also consider alternate formulations of the localization problem, as a Bayesian network model as well as formulated in a combinatorial fashion. Then performance of different localization methods is compared and again LEMON ensures better accuracy. An effective room localization algorithm is developed, and both single and multiple channels are used to test its performance. Furthermore, a set of two-step localization algorithms is designed to make the LEMON robust in the presence of noisy RSS and faulty device behavior.

Book Information

Paperback: 108 pages

Publisher: LAP LAMBERT Academic Publishing (August 31, 2012)

Language: English

ISBN-10: 3659223506

ISBN-13: 978-3659223501

Product Dimensions: 5.9 x 0.2 x 8.7 inches

Shipping Weight: 5.6 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #11,533,383 in Books (See Top 100 in Books) #84 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Localization #7145 in Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs > Networks #30232 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors

[Download to continue reading...](#)

RF-based Indoor Localization in Sensor Networks: Localization Using Signal Fingerprinting
Enhancing Indoor Localization with Proximity Information in WSN: A novel way of enhancing indoor localization in wireless sensor networks
Localization in Wireless Sensor Network: An enhanced composite approach with mobile beacon shortest path to solve localization problem in wireless sensor network
Protocol for Wireless Localization Systems: Communications Protocol for RF-based

Wireless Indoor Localization Networks Secure Localization and Time Synchronization for Wireless Sensor and Ad Hoc Networks (Advances in Information Security) Location Determination within Wireless Networks: Dynamic indoor/outdoor Localization Systems: Algorithm Design, Performance Analysis and Comparison Study Wireless Sensor Networks: Third European Workshop, EWSN 2006, Zurich, Switzerland, February 13-15, 2006, Proceedings (Lecture Notes in Computer Science) Indoor Gardening: The Ultimate Beginner's Guide to Growing an Indoor Garden Environment Learning for Indoor Mobile Robots: A Stochastic State Estimation Approach to Simultaneous Localization and Map Building (Springer Tracts in Advanced Robotics) Indoor Location-Based Services: Prerequisites and Foundations 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) Location, Localization, and Localizability: Location-awareness Technology for Wireless Networks Localization in Wireless Networks: Foundations and Applications Parallel and Distributed Map Merging and Localization: Algorithms, Tools and Strategies for Robotic Networks (SpringerBriefs in Computer Science) Digital Coding of Waveforms: Principles and Applications to Speech and Video (Prentice-Hall Signal Processing Series) Modulated Coding for Intersymbol Interference Channels (Signal Processing and Communications) Practical Approaches to Speech Coding (Prentice-Hall and Texas Instruments Digital Signal Processors Series) Digital Compression of Still Images and Video (Signal Processing and its Applications) Transform Coding of Images (Microelectronics and Signal Processing) The Signal and the Noise: Why So Many Predictions Fail--but Some Don't

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)