

The book was found

Location Determination Within Wireless Networks: Dynamic Indoor/outdoor Localization Systems: Algorithm Design, Performance Analysis And Comparison Study



Yiming Ji

Location Determination within Wireless Networks

Dynamic indoor/outdoor Localization Systems:
Algorithm Design, Performance Analysis
and Comparison Study





Synopsis

Many location determination systems have recently been proposed, and most of them are based on one or more of the following four methods: lateration, angulation, fingerprinting, and dead-reckoning. However, existing systems require either dedicated hardware support or extensive human interaction. This book, therefore, provides a comprehensive study on the design, analysis, and evaluation of both indoor and outdoor localization systems. The book introduces a new dynamic indoor localization tool called ARIADNE, it also presents two multidimensional scaling based algorithms for outdoor sensor networks. Thus this research transforms indoor/outdoor localization systems from high cost, labor intensive, imprecise, and static technologies to affordable, automated, accurate, and dynamic systems. Research results are ready to be integrated with a wide range of applications without requiring additional infrastructure, other wireless technologies or manual operations. Comparison study should help professionals better understand current status of the research in wireless location determination, and theoretical analysis would also serve as valuable standards for other research in the community.

Book Information

Paperback: 136 pages

Publisher: VDM Verlag Dr. MÃfÃller (March 1, 2009)

Language: English

ISBN-10: 3639127633

ISBN-13: 978-3639127638

Product Dimensions: 5.9 x 0.3 x 8.7 inches

Shipping Weight: 8.8 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #11,214,227 in Books (See Top 100 in Books) #81 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Localization #6975 in Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs > Networks #7584 in Books > Textbooks > Computer Science > Networking

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

Location Determination within Wireless Networks: Dynamic indoor/outdoor Localization Systems: Algorithm Design, Performance Analysis and Comparison Study Protocol for Wireless Localization Systems: Communications Protocol for RF-based Wireless Indoor Localization Networks Enhancing Indoor Localization with Proximity Information in WSN: A novel way of enhancing indoor localization

in wireless sensor networks Location, Localization, and Localizability: Location-awareness Technology for Wireless 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 RF-based Indoor Localization in Sensor Networks: Localization Using Signal Fingerprinting Sunset Outdoor Design Guide: Backyard Cottages & Gazebos: Fresh Ideas for Outdoor Living (Sunset Outdoor Design & Build Guides) Secure Localization and Time Synchronization for Wireless Sensor and Ad Hoc Networks (Advances in Information Security) Localization in Wireless Networks: Foundations and Applications Indoor Location-Based Services: Prerequisites and Foundations Indoor Gardening: The Ultimate Beginner's Guide to Growing an Indoor Garden Light & Shadow: Dynamic Lighting Design for Location Portrait Photography Wireless Hacking: Projects for Wi-Fi Enthusiasts: Cut the cord and discover the world of wireless hacks! Environment Learning for Indoor Mobile Robots: A Stochastic State Estimation Approach to Simultaneous Localization and Map Building (Springer Tracts in Advanced Robotics) Principles of Wireless Access and Localization Introduction to Wireless Localization: With iPhone SDK Examples Organic Mushroom Farming and Mycoremediation: Simple to Advanced and Experimental Techniques for Indoor and Outdoor Cultivation Reliability of Computer Systems and Networks: Fault Tolerance, Analysis, and Design Genome-Scale Algorithm Design: Biological Sequence Analysis in the Era of High-Throughput Sequencing

[Dmca](#)