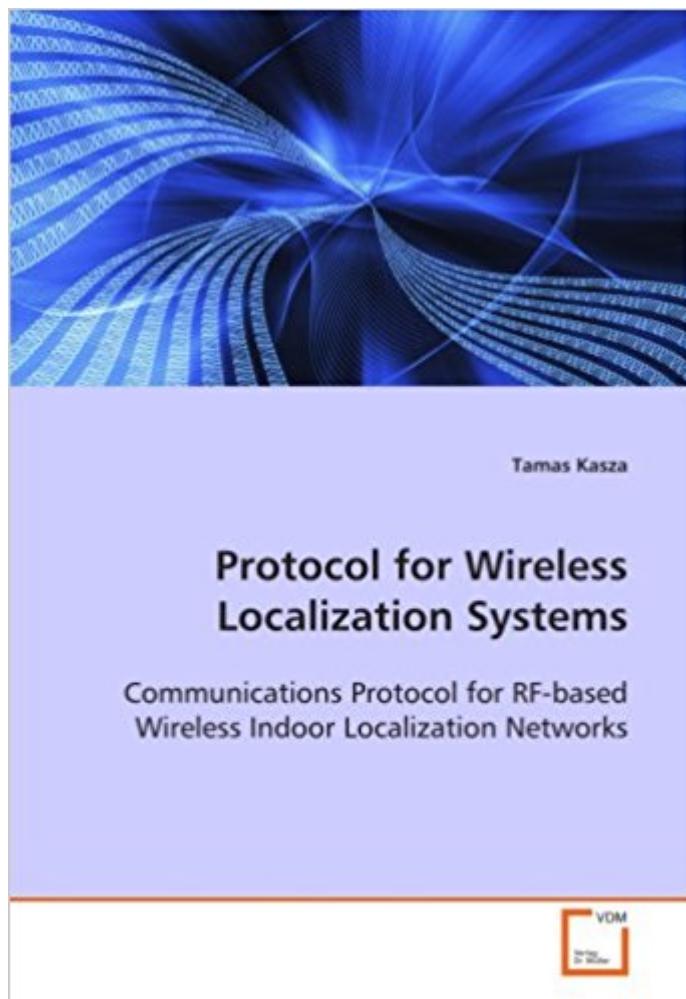


The book was found

Protocol For Wireless Localization Systems: Communications Protocol For RF-based Wireless Indoor Localization Networks



Synopsis

This book presents a new novel communications scheme for application-specific RF-based wireless indoor localization systems. In such a system, wireless badges attached to people or devices send periodical Received Signal Strength Indicator (RSSI) bytes at several selected frequencies to wireless router units. Routers measure RSSI and route information hop-by-hop toward a Central Management Station (CMS). In this many-to-one data communications network, CMS receives data entries of a badge and calculates positions at a desired level of accuracy. The new Wireless Indoor Localization System Protocol (WILSP) specifies a mixed time and frequency division (TDMA/FDMA) for medium access. Assuming the limited capabilities of Chipcon CC1010EM chips, results indicate that WILSP performs well in grid-, linear-structure and Cafeteria scenarios and the multi-hop scheme introduced meets the specified requirements. The investigation should be especially useful to professionals in Communications Protocols and Wireless and Localization Network experts, or anyone else who may be considering utilizing the latest advancements in electronics and technology for wireless localizations efforts.

Book Information

Paperback: 160 pages

Publisher: VDM Verlag Dr. MÃƒÂller (January 16, 2009)

Language: English

ISBN-10: 3639118979

ISBN-13: 978-3639118971

Product Dimensions: 5.9 x 0.4 x 8.7 inches

Shipping Weight: 10.1 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #14,466,200 in Books (See Top 100 in Books) #98 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Localization #20027 in Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs

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

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 Wireless and Mobile Networking: IFIP Joint Conference on Mobile Wireless Communications Networks (MWCN'2008) and Personal

Wireless Communications ... in Information and Communication Technology) 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 Localization in Wireless Sensor Network: An enhanced composite approach with mobile beacon shortest path to solve localization problem in wireless sensor network Location, Localization, and Localizability: Location-awareness Technology for Wireless Networks Secure Localization and Time Synchronization for Wireless Sensor and Ad Hoc Networks (Advances in Information Security) Localization in Wireless Networks: Foundations and Applications 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) Wireless Hacking: Projects for Wi-Fi Enthusiasts: Cut the cord and discover the world of wireless hacks! Error-Correction Coding for Digital Communications (Applications of Communications Theory) Show Networks and Control Systems: Formerly "Control Systems for Live Entertainment" 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) Data Communications and Computer Networks: A Business User's Approach

[Dmca](#)