

1. Record Nr.	UNINA9911020093403321
Titolo	Emerging wireless LANs, wireless PANs, and wireless MANs : IEEE 802.11, IEEE 802.15, IEEE 802.16 wireless standard family / / edited by Yang Xiao and Yi Pan
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2008
ISBN	97866121112836 9781282112834 128211283X 9780470403686 0470403683 9780470403679 0470403675
Descrizione fisica	1 online resource (648 p.)
Collana	Wiley series on parallel and distributed computing ; ; 57
Altri autori (Persone)	PanYi <1960-> XiaoYang <1966->
Disciplina	004.6/8
Soggetti	IEEE 802.11 (Standard) IEEE 802.16 (Standard) Wireless LANs - Standards Personal communication service systems - Standards Wireless metropolitan area networks - Standards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	PREFACE -- CONTRIBUTORS -- PART I: IEEE 802.11 WIRELESS LANs -- Chapter 1 IEEE 802.11 Medium Access Control and Physical Layers (Kaveh Ghaboosi, Matti Latva-aho, and Yang Xiao) -- Chapter 2 Framework for Decentralized Wireless LAN Resource Management (Jiang Xie, Ivan Howitt, and Anita Raja) -- Chapter 3 Incentive Issues in IEEE 802.11x Wireless Networks (Yu-Kwong Kwok) -- Chapter 4 Capacity and Rate Adaptation in IEEE 802.11 Wireless LANs (Ming Li and Yang Xiao) -- PART II IEEE 802.15.1 BLUETOOTH AND IEEE 802.15.2 -- Chapter 5 Overview of IEEE 802.15.1 Medium Access Control and Physical Layers (Kaveh Ghaboosi, Yang Xiao, and Jeff J. Robertson) --

Chapter 6 Overview of IEEE 802.15.2: Coexistence of Wireless Personal Area Networks with Other Unlicensed Frequency Bands Operating Wireless Devices (Kaveh Ghaboosi, Yang Xiao, Matti Latva-aho, and Babak H. Khalaj) -- Chapter 7 Coexistence of Bluetooth Piconets and Wireless LAN (Jingli Li and Xiangqian Liu) -- PART III IEEE 802.15.3 WIRELESS PANs -- Chapter 8 Frame Format, Channel Access, and Piconet Operation of IEEE 802.15.3 Wireless PANs (Yang Xiao, Michael J. Plyler, Bo Sun, and Yi Pan) -- Chapter 9 Power Management and Security of IEEE 802.15.3 Wireless PANs (Yang Xiao, Michael J. Plyler, Bo Sun, and Yi Pan) -- Chapter 10 Performance Evaluation and Optimization of IEEE 802.15.3 Piconets (Zhanping Yin and Victor C. M. Leung) -- Chapter 11 Performance Analysis of MB-OFDM UWB Systems (Chris Snow, Lutz Lampe, and Robert Schoberg) -- Chapter 12 Distributed Solution for Resource Allocation in Ultra-Wideband Wireless PANs (Hai Jiang, Kuang-Hao Liu, Weihua Zhuang, and Xuemin (Sherman) Shen) -- PART IV IEEE 802.15.4 AND 802.15.5 WIRELESS PANs -- Chapter 13 IEEE 802.15.4 Medium Access Control and Physical Layers (Yang Xiao, Michael J. Plyler, Ming Li, and Fei Hu) -- Chapter 14 Performance Analysis for IEEE 802.15.4 Wireless Personal Area Networks (Hsueh-Wen Tseng, Yu-Kai Huang, and Ai-Chun Pang) -- Chapter 15 Data Transmission and Beacon Scheduling in Low Rate Wireless Mesh Personal Area Networks (Jianliang Zheng). Chapter 16 Impact of Reliable and Secure Sensing on Cluster Lifetime in IEEE 802.15.4 Networks (Jelena Misic) -- Chapter 17 IEEE 802.15.5: Recommended Practice for WPAN Mesh Network (Low Data Rate) (Chunhui Zhu and Myung J. Lee) -- Chapter 18 Power-Saving Algorithms on IEEE 802.15.4 for Wireless Sensor Networks (Tae Rim Park and Myung J. Lee) -- PART V IEEE 802.16 WIRELESS MANs -- Chapter 19 IEEE 802.16 Medium Access Control and Physical Layers (Yang Xiao, Michael J. Plyler, Tianji Li, and Fei Hu) -- Chapter 20 QoS Support for WiMAX (Usman A. Ali, Qiang Ni, Yang Xiao, Wenbing Yao, and Dionysios Skordoulis) -- Chapter 21 Subchannel Allocation and Connection Admission Control in OFDMA-Based IEEE 802.16/WiMAX-Compliant Infrastructure Wireless Mesh Networks (Dusit Niyato and Ekram Hossain) -- Chapter 22 Universal Authentication and Billing Architecture for Wireless MANs (Xiaodong Lin, Haojin Zhu, Minghui Shi, Rongxing Lu, Pin-Han Ho, and Xuemin (Sherman) Shen) -- Chapter 23 Scheduling Algorithms for WiMAX Networks: Simulator Development and Performance Study (Sai Suhas Kolukula, M. Sai Rupak, K. S. Sridharan, and Krishna M. Sivalingam) -- INDEX -- ABOUT THE EDITORS.

Sommario/riassunto

A thoroughly up-to-date resource on IEEE 802 wireless standards Readers can turn to this book for complete coverage of the current and emerging IEEE 802 wireless standards/drafts, including: . 802.11 Wireless LANs . 802.15.1 Bluetooth and 801.15.2 . 802.15.3 Wireless PANs . 802.15.4 and 802.15.5 Wireless PANs . 802.16 Wireless MANs Emerging Wireless LANs, Wireless PANs, and Wireless MANs is a unique, convenient resource for engineers, scientists, and researchers in academia and industry. It also serves as a valuable textbook for related courses at the upper-undergraduate and graduate levels.