1. Record Nr. UNINA9910814273503321

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Titolo	WiFi, WiMAX and LTE multi-hop mesh networks : basic communication protocols and application areas / / .Hung-Yu Wei (National Taiwan University, Taiwan), Jarogniew Rykowski (Poznaan University of Economics, Poland), Sudhir Dixit (Hewlett-Packard Laboratories, India)
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons Inc., , [2013] [Piscataqay, New Jersey] : , : IEEE Xplore, , [2013]
ISBN	1-118-57102-9 1-118-57111-8 1-299-31488-0 1-118-57106-1
Descrizione fisica	1 online resource (282 p.)
Collana	Information and communication technology series ; ; 96
Altri autori (Persone)	RykowskiJaroqniew DixitSudhir
Disciplina	004.6/2
Soggetti	Ad hoc networks (Computer networks) Wireless LANs
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	Foreword xi -- Preface xiii -- About the Authors xvii -- List of Figures xix -- List of Tables xxv -- 1 Introduction 1 -- 2 Architectural Requirements for Multi-hop and Ad-Hoc Networking 9 -- 2.1. When and Where Do We Need Ad-Hoc Networking? 9 -- 2.2. When Do We Need Multi-hop? How Many Hops Are Sufficient/Necessary? 12 -- 2.3. Anonymity versus Authorization and Authentication 13 -- 2.4. Security and Privacy in Ad-Hoc Networks 17 -- 2.5. Security and Privacy in Multi-hop Networks 18 -- 2.6. Filtering the Traffic in Ad-Hoc Networking and Multi-hop Relaying 20 -- 2.7. QoS 23 -- 2.8. Addressability 24 -- 2.9. Searchability 28 -- 2.10. Ad-Hoc Contexts for Next-Generation Searching 29 -- 2.11. Personalization Aspects in Ad-Hoc Information Access 31 -- 2.12. Multi-hop Networking: Technical Aspects 32 -- 2.13. Summary 34 -- 2.13.1. Do We Really Need Ad-Hoc and Multi-hop Networking? If So, When and Where? 35 -- 2.13.2. When and Where Do We Need Ad-Hoc Networking? 35 -- 2.13.3. How Do We

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Sommario/riassunto

What you need to know about one of the hottest and most promising technologies in wireless communications Owing to their ability to easily interconnect a wide range of devices, wireless mesh networks (WMNs) are attracting immense interest throughout the world. This book offers a clear, practical introduction to this rapidly growing field, providing engineers with the tools they need to start working on WiFi, WiMAX, or LTE multi-hop relay networks. The authors explain all technical concepts with a minimum of mathematics, incorporating numerous examples of user scenarios, deployable architectures, performance tips, and real-world implementations using readily available tools. The evolution of WMNs from IEEE wireless LAN to 4G radio technologies, various business aspects, and future directions are also explored. Coverage includes: . Architectural requirements for multi-hop and ad-hoc networking, with topics ranging from anonymity to searching. Key application areas in transportation, medicine, environmental protection, smart buildings, and more. A review of the application of mesh concepts to IEEE 802.11 WiFi wireless LAN technology. Mesh networking using IEEE 802.16 WiMAX radio access networks-presented here for the first time. Mesh and relay networking in LTE and LTE-Advanced technologies, including system architecture and design

issues WiFi, WiMAX, and LTE Multi-hop Mesh Networks is the ideal guide for engineers and researchers wishing to quickly get up to speed on the latest advances in mesh networking.