1.	Record Nr.	UNINA9910845189803321
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	Titolo	Mobile ad hoc networks : current status and future trends / / edited by Jonathan Loo, Jaime Lloret Mauri, Jesus Hamilton Ortiz
	Pubbl/distr/stampa	Boca Raton, Florida : , : CRC Press, , [2012] ©2012
	ISBN	0-429-19222-3 1-4665-1313-6 1-4665-1314-4 1-4398-5651-6
	Edizione	[1st edition]
	Descrizione fisica	1 online resource (1189 p.)
	Classificazione	COM043000TEC061000
	Disciplina	004.6/167
	Soggetti	Ad hoc networks (Computer networks) Mobile communication systems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	An Auerbach book.
	Nota di bibliografia	Includes bibliographical references at the end of each chapters.
	Nota di contenuto	Cover; Other Telecommunications Books from Auerbach; Title Page; Copyright; Contents; Contributors; Section I: Fundamental of Manet-Modeling and Simulation; 1: Mobile Ad Hoc Network; 2: Mobile Ad Hoc Routing Protocols; 3: Modeling and Simulation Tools for Mobile Ad Hoc Networks; 4: Study and Performance of Mobile Ad Hoc Routing Protocols; 5: Ad Hoc Routing Modeling and Mathematical Analysis; Section II: Communication Protocols of Manet; 6: Extending Open Shortest Path First for Mobile Ad Hoc Network Routing 7: New Approaches to Mobile Ad Hoc Network Routing: Application of Intelligent Optimization Techniques to Multicriteria Routing8: Energy-Efficient Unicast and Multicast Communication for Wireless Ad Hoc Networks Using Multiple Criteria; 9: Security Issues in FHAMIPv6; 10: Channel Assignment in Wireless Mobile Ad Hoc Networks; 11: Quality-of-service State Information-Based Solutions in Wireless Mobile Ad Hoc Networks: A Survey and a Proposal; Section III: Future Net Works in Spired by Manet 12: Connecting Moving Smart Objects to the Internet: Potentialities and Issues When Using Mobile Ad Hoc Network Technologies13: Vehicular

Sommario/riassunto	Guiding readers through the basics of these rapidly emerging networks to more advanced concepts and future expectations, Mobile Ad hoc Networks: Current Status and Future Trends identifies and examines the most pressing research issues in Mobile Ad hoc Networks (MANETs). Containing the contributions of leading researchers, industry professionals, and academics, this forward-looking reference provides an authoritative perspective of the state of the art in MANETs.The book includes surveys of recent publications that investigate key areas of interest such as limited resources and the mobility of the mobile nodes. It considers routing, multicast, energy, security, channel assignment, and ensuring quality of service. Also suitable as a text for graduate students, the book is organized into three sections:Fundamentals of MANET Modeling and Simulation Describes how MANETs operate and perform through simulations and modelsCommunication Protocols of MANETs Presents cutting-edge research on key issues, including MAC layer issues and routing in high mobilityFuture Networks Inspired By MANETs Tackles open research issues and emerging trendsIllustrating the role MANETs are likely to play in future networks, this book supplies the foundation and insight you will need to make your own contributions to the field. It includes coverage of routing protocols, modeling and simulations tools, intelligent optimization techniques to multicriteria routing, security issues in FHAMIPv6, connecting moving smart objects to the Internet, underwater sensor networks, wireless mesh network architecture and protocols, adaptive routing provision using Bayesian inference, and adaptive flow control in transport layer using genetic algorithms. --