

1. Record Nr.	UNINA9910800052103321
Titolo	Security of self-organizing networks : MANET, WSN, WMN, VANET // editor, Al-Sakib Khan Pathan
Pubbl/distr/stampa	Boca Raton : , : Auerbach Publications, , 2011
ISBN	0-429-09439-6 1-282-90290-3 9786612902901 1-4398-1920-3
Descrizione fisica	1 online resource (614 p.)
Altri autori (Persone)	PathanAl-Sakib Khan
Disciplina	005.8
Soggetti	Ad hoc networks (Computer networks) - Security measures Self-organizing systems - Security measures
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	Front cover; Contents; Preface; Acknowledgments; Editor; Contributors; Part I: GENERAL TOPICS-SECURITY OF WIRELESS AND SELF-ORGANIZING NETWORKS; Chapter 1: Secure Device Association; Chapter 2: Securing Route and Path Integrity in Multihop Wireless Networks; Chapter 3: Handling Security Threats to the RFID System of EPC Networks; Chapter 4: Survey of Anomaly Detection Algorithms; Chapter 5: Reputation- and Trust-Based Systems for Wireless Self-Organizing Networks; Part II: MOBILE AD HOC NETWORK AND VEHICULAR AD HOC NETWORK SECURITY; Chapter 6: Security Threats in Mobile Ad Hoc Networks Chapter 7: Key Management in Mobile Ad Hoc Networks Chapter 8: Combating against Security Attacks against Mobile Ad Hoc Networks (MANETs); Chapter 9: Classification of Attacks on Wireless Mobile Ad Hoc Networks and Vehicular Ad Hoc Networks; Chapter 10: Security in Vehicular Ad Hoc Networks; Chapter 11: Toward a Robust Trust Model for Ensuring Security and Privacy in VANETs; Chapter 12: Sybil Attack in VANETs; Part III: WIRELESS SENSOR NETWORK SECURITY; Chapter 13: Key Management Schemes of Wireless Sensor Networks; Chapter 14: Key Management Techniques for Wireless Sensor Networks

Chapter 15: Bio-Inspired Intrusion Detection for Wireless Sensor Networks; Chapter 16: Biological Inspired Autonomously Secure Mechanism for Wireless Sensor Networks; Chapter 17: Controlled Link Establishment Attack on Key Pre-Distribution Schemes for Distributed Sensor Networks and Countermeasures; Chapter 18: Proactive Key Variation Owing to Dynamic Clustering (PERIODIC) in Sensor Networks; Chapter 19: Secure Routing Architectures Using Cross-Layer Information for Attack Avoidance (with Case Study on Wormhole Attacks); Chapter 20: Reputation-Based Trust Systems in Wireless Sensor Networks; Chapter 21: Major Works on the Necessity and Implementations of PKC in WSNs; Part IV: WIRELESS MESH NETWORK SECURITY; Chapter 22: Secure Access Control and Authentication in Wireless Mesh Networks; Chapter 23: Misbehavior Detection in Wireless Mesh Networks; Back cover

---

### Sommario/riassunto

Reflecting recent advancements, Security of Self-Organizing Networks: MANET, WSN, WMN, VANET explores wireless network security from all angles. It begins with a review of fundamental security topics and often-used terms to set the foundation for the following chapters. Examining critical security issues in a range of wireless networks, the book proposes specific solutions to security threats. Ideal for those with a basic understanding of network security, the text provides a clear examination of the key aspects of security in self-organizing networks and othe

---