

CONTENTS

<i>Preface</i>	vii
<i>Yang Xiao, Xuemin Shen, and Ding-Zhu Du</i>	
Part I: Security in General Wireless/Mobile Networks	1
Chapter 1: High Performance Elliptic Curve Cryptographic Co-processor	3
<i>Jonathan Lutz and M. Anwarul Hasan</i>	
Chapter 2: An Adaptive Encryption Protocol in Mobile Computing	43
<i>Hanping Lufei and Weisong Shi</i>	
Part II: Security in Ad Hoc Network	63
Chapter 3: Pre-Authentication and Authentication Models in Ad Hoc Networks	65
<i>Katrin Hoyer and Guang Gong</i>	
Chapter 4: Promoting Identity-Based Key Management in Wireless Ad Hoc Networks	83
<i>Jianping Pan, Lin Cai, and Xuemin (Sherman) Shen</i>	
Chapter 5: A Survey of Attacks and Countermeasures in Mobile Ad Hoc Networks	103
<i>Bing Wu, Jianmin Chen, Jie Wu, and Mihaela Cardei</i>	
Chapter 6: Secure Routing in Wireless Ad-Hoc Networks	137
<i>Venkata C. Giruka and Mukesh Singhal</i>	

Chapter 7: A Survey on Intrusion Detection in Mobile Ad Hoc Networks	159
<i>Tiranuch Anantvalee and Jie Wu</i>	
Part III: Security in Mobile Cellular Networks	181
Chapter 8: Intrusion Detection in Cellular Mobile Networks	183
<i>Bo Sun, Yang Xiao, and Kui Wu</i>	
Chapter 9: The Spread of Epidemics on Smartphones	211
<i>Bo Zheng, Yongqiang Xiong, Qian Zhang, and Chuang Lin</i>	
Part IV: Security in Wireless LANs	243
Chapter 10: Cross-Domain Mobility-Adaptive Authentication	245
<i>Hahnsang Kim and Kang G. Shin</i>	
Chapter 11: AAA Architecture and Authentication for Wireless LAN Roaming	273
<i>Minghui Shi, Humphrey Rutagemwa, Xuemin (Sherman) Shen, Jon W. Mark, Yixin Jiang, and Chuang Lin</i>	
Chapter 12: An Experimental Study on Security Protocols in WLANs	295
<i>Avesh Kumar Agarwal and Wenye Wang</i>	
Part V: Security in Sensor Networks	323
Chapter 13: Security Issues in Wireless Sensor Networks used in Clinical Information Systems	325
<i>Jelena Mišić and Vojislav B. Mišić</i>	
Chapter 14: Key Management Schemes in Sensor Networks	341
<i>Venkata Krishna Rayi, Yang Xiao, Bo Sun, Xiaojian (James) Du, and Fei Hu</i>	
Chapter 15: Secure Routing in Ad Hoc and Sensor Networks	381
<i>Xu (Kevin) Su, Yang Xiao, and Rajendra V. Boppana</i>	
About the Editors	403
Index	407