

Contents

Preface	ix
Editors	xiii
Part 1 Security in Internet	1
Chapter 1 Security Issues in the TCP/IP Suite <i>Prabhaker Mateti</i>	3
Chapter 2 New Internet Threats: An Overview of Spam Email and Spyware <i>Ming-Wei Wu, Yennun Huang and Sy-Yen Kuo</i>	31
Chapter 3 Securing Multimedia and VoIP Content with the Secure Real-time Transport Protocol <i>Michael Oehler</i>	55
Part 2 Security in Distributed Systems	73
Chapter 4 Cover-Free Families and Their Applications <i>San Ling, Huaxiong Wang and Chaoping Xing</i>	75
Chapter 5 Group Rekeying in Multi-Privileged Group Communications for Distributed Networking Services <i>Guojun Wang, Jie Ouyang, Hsiao-Hwa Chen and Minyi Guo</i>	99
Chapter 6 Access Control Policy Negotiation for Remote Hot-Deployed Grid Services <i>Jinpeng Huai, Wei Xue, Yunhao Liu and Lionel M. Ni</i>	127

Part 3 Security in Pervasive Computing	149
Chapter 7 Low-Cost Radio Frequency Identification Security <i>Yang Xiao, Larissa Klimpel, Kaveh Ghaboosi and Jingyuan Zhang</i>	151
Chapter 8 Energy Consumption of Key Distribution in 802.15.4 Beacon Enabled Cluster with Sleep Management <i>Jelena Mišić</i>	169
Chapter 9 Securing Wireless Networks Using Device Type Identification <i>Cherita Corbett, Raheem Beyah and John Copeland</i>	191
Part 4 Security in Sensor Networks	223
Chapter 10 Security in Distributed Sensor Network Time Synchronization Services <i>Fei Hu, Ramesh Vaithiyam Krishnaram and Sunil Kumar</i>	225
Chapter 11 Key Management in Wireless Sensor Networks <i>Yu-Kwong Kwok</i>	255
Chapter 12 Secure Network Programming in Wireless Sensor Networks <i>Tassos Dimitriou and Ioannis Krontiris</i>	289
Part 5 Security in Ad Hoc Networks	311
Chapter 13 Bootstrapping Security in Mobile Ad Hoc Networks Using Identity-Based Schemes <i>Katrin Hoepfer and Guang Gong</i>	313

Chapter 14	Hash-Binary-Tree Based Group Key Distribution with Time-limited Node Revocation <i>Yixin Jiang, Chuang Lin, Minghui Shi and Xuemin (Sherman) Shen</i>	339
Chapter 15	Efficient Authentication Schemes for AODV and DSR <i>Shidi Xu, Yi Mu, Willy Susilo, Xinyi Huang, Xiaofeng Chen and Fangguo Zhang</i>	367
Part 6	Security in Wireless Networks	391
Chapter 16	Security in Wireless Local Area Networks <i>Mohammad O. Pervaiz, Mihaela Cardei and Jie Wu</i>	393
Chapter 17	Access Security in Heterogeneous Wireless Networks <i>Ali Al Shidhani and Victor C.M. Leung</i>	421
Chapter 18	Authentication in Wireless Cellular Networks <i>Frank H. Li, Marcus Barkey, Yang Xiao and Lilian P. Kalyanapu</i>	463