

Table of Contents

Preface.....	xii
--------------	-----

Section 1 Mobile Data Networking and Communication

Chapter 1

Moving From Topology-Dependent to Opportunistic Routing Protocols in Dynamic Wireless Ad Hoc Networks: Challenges and Future Directions.....	1
--	---

Varun G. Menon, Sathyabama University, India
Joe Prathap P. M., RMD Engineering College, India

Chapter 2

Dynamic Fog Computing: Practical Processing at Mobile Edge Devices.....	24
---	----

Sander Soo, University of Tartu, Estonia
Chii Chang, University of Tartu, Estonia
Seng W. Loke, Deakin University, Australia
Satish Narayana Srirama, University of Tartu, Estonia

Chapter 3

Predictive Methods of Always Best-Connected Networks in Heterogeneous Environment.....	48
--	----

Bhuvaneshwari Mariappan, University Chennai, India

Chapter 4

Classification of Channel Allocation Schemes in Wireless Mesh Network	65
---	----

Abira Banik, Tripura University, India
Abhishek Majumder, Tripura University, India

Chapter 5

SMARC: Seamless Mobility Across RAN Carriers Using SDN.....	93
---	----

Walaa F. Elsadek, American University in Cairo, Egypt
Mikhail N. Mikhail, American University in Cairo, Egypt

Section 2
Mobile Data Access and Management

Chapter 6

Massive Access Control in Machine-to-Machine Communications..... 133

Pawan Kumar Verma, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, India

Rajesh Verma, Raj Kumar Goel Institute of Technology and Management, India

Arun Prakash, Motilal Nehru National Institute of Technology, India

Rajeev Tripathi, Motilal Nehru National Institute of Technology, India

Chapter 7

Adaptive Power-Saving Mechanism for VoIP Over WiMAX Based on Artificial Neural Network... 158

Tamer Emara, Shenzhen University, China

Chapter 8

Optimizing Channel Utilization for Wireless Broadcast Databases 178

Agustinus Waluyo, Monash University, Australia

Section 3
Mobile Data Visualization

Chapter 9

Visualization-Driven Approach to Fraud Detection in the Mobile Money Transfer Services 205

*Evgenia Novikova, SPIIRAS, Russia & St. Petersburg Electrotechnical University "LETI",
Russia*

Igor Kotenko, SPIIRAS, Russia & St. Petersburg ITMO University, Russia

Chapter 10

Visualizing Pathway on 3D Maps for an Interactive User Navigation in Mobile Devices 237

Teddy Mantoro, Sampoerna University, Indonesia

Media Anugerah Ayu, Sampoerna University, Indonesia

Adamu Ibrahim, International Islamic University Malaysia

Compilation of References 261

About the Contributors 291

Index..... 296