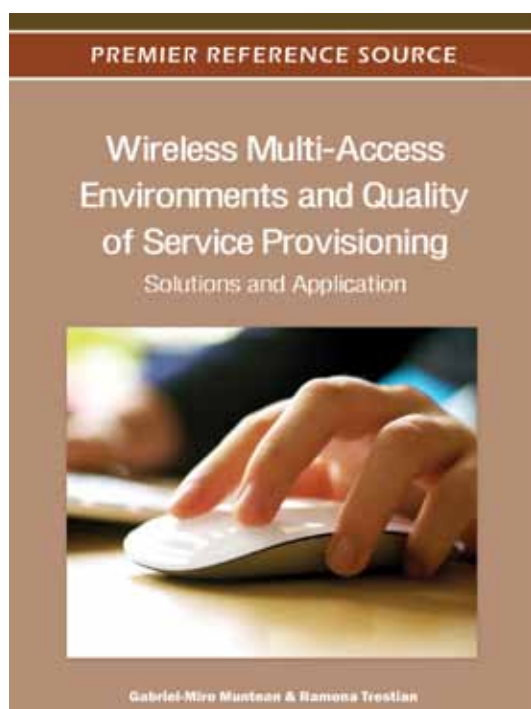


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Wireless Multi-Access Environments and Quality of Service Provisioning: Solutions and Application



Gabriel-Miro Muntean (Dublin City University, Ireland)
and Ramona Trestian (Dublin City University, Ireland)

Wireless technology has expanded rapidly as a field over recent years, especially in mobile and distance technologies, and collaboration over networks demands increases in speed, security, and reliability.

Wireless Multi-Access Environments and Quality of Service Provisioning: Solutions and Application serves as a vital resource for practitioners to learn about the latest research and methodology within the field of wireless technology. This book covers important aspects of emerging technologies in the heterogeneous next generation network environment with focus on wireless communications and their quality. It presents network selection mechanisms, handover solutions and adaptive techniques, identifies the research issues and challenges, and presents a survey of the proposed solutions in the literature. It includes important chapters written by researchers from prestigious laboratories from Australia, China, Mexico, Portugal, Greece, Germany, the United Kingdom, and India, presenting the current advancements in wireless communications.

Topics Covered:

- Cross-Layer Optimization
- Handover Strategies
- Interoperability
- Management
- Mobility Challenges
- Multimedia Content Distribution
- Network Layer Approaches
- Network Selection Solutions
- Security
- Wireless Aware Transport Protocols

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Gabriel-Miro Muntean is a Lecturer with the School of Electronic Engineering, Dublin City University (DCU), Ireland, where he obtained his Ph.D. degree in 2003 for research on quality-oriented adaptive multimedia streaming over wired networks. He was awarded the B.Eng. and M.Sc. degrees in Software Engineering from the Computer Science Department, "Politehnica" University of Timisoara, Romania in 1996 and 1997 respectively. Dr. Muntean is co-director of the DCU Performance Engineering Laboratory research group and Director of the Network Innovations Centre, part of the RINCE Research Institute Ireland. His research interests include quality-oriented and performance-related issues of adaptive multimedia delivery, performance of wired and wireless communications, energy-aware networking and personalised e-learning. Dr. Muntean has published over 100 papers in prestigious international journals and conferences, has authored a book and six book chapters and has edited two other books. Dr. Muntean is an Associate Editor of the *IEEE Transactions on Broadcasting* and reviewer for other important international journals, conferences, and funding agencies. He is a member of IEEE, and IEEE Broadcast Technology Society.



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Chapter 1

Multi-Access Environments in Next Generation Networks

Ramraj Rajeshkumar (Edith Cowan University, Australia)

Ahmad Iftekhhar (Edith Cowan University, Australia)

Habibi Daryoush (Edith Cowan University, Australia)

Chapter 2

Mobility Challenges and Management in the Future Wireless Heterogeneous Networks

Guan Jianfeng (Beijing University of Posts and Telecommunications, China)

Xu Changqiao (Beijing University of Posts and Telecommunications, China)

Zhang Hongke (Beijing University of Posts and Telecommunications, China & Beijing Jiaotong University, China)

Zhou Huachun (Beijing Jiaotong University, China)

Chapter 3

Multiple Attributes Decision Making Algorithms for Vertical Handover in Heterogeneous Wireless Networks

Stevens-Navarro Enrique (Universidad Autónoma de San Luis Potosí, México)

Martínez-Morales José D. (Universidad Autónoma de San Luis Potosí, México)

Pineda-Rico Ulises (Universidad Autónoma de San Luis Potosí, México)

Chapter 4

Context-Aware Delivery of Multi-Party Communications

Coutinho Nuno (Instituto de Telecomunicações, University of Aveiro, Portugal)

Sergento Susana (Instituto de Telecomunicações, University of Aveiro, Portugal)

Chapter 5

Multi-Access Communications in Wireless Mesh Networks by Virtualization

Sergento Susana (Instituto de Telecomunicações, University of Aveiro, Portugal)

Matos Ricardo (Instituto de Telecomunicações, University of Aveiro, Portugal)

Hummel Karin Anna (University of Vienna, Austria)

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Al-Hazmi Yahya (University of Passau, Germany)

Ali Muhammad (University of Passau, Germany)

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Chapter 6

Heterogeneous Meshed Wireless Back-Haul Network Integrating Unidirectional Technologies

Kretschmer Mathias (Fraunhofer FOKUS, Germany & Brunel University, UK)

Niephaus Christian (Fraunhofer FOKUS, Germany)

Ghinea George (Brunel University, UK)

Chapter 7

Adaptive Scheduling for TCP-Fairness in Wireless Broadband Networks

K Balakrishnan (International Institute of Information Technology-Bangalore, India)

Kalle Ritesh Kumar (International Institute of Information Technology-Bangalore, India)

Das Debabrata (International Institute of Information Technology-Bangalore, India)

Section 2: QoS Provisioning Solutions

Chapter 8

Towards Carrier-Grade Quality in Heterogeneous Wireless Mesh Networks

Lessmann Johannes (NEC Europe Ltd., Germany)

Loureiro Paulo (NEC Europe Ltd., Germany)

Fitzpatrick John (University College Dublin, Ireland)

Robitzsch Sebastian (University College Dublin, Ireland)

Serrano Pablo (University Carlos III of Madrid, Spain)

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Chapter 9

Toward Intelligent Fuzzy QoS Model in Wireless Ad Hoc Networks

Khoukhi Lyes (University of Technology of Troyes, France)

El-Masri Ali (University of Technology of Troyes, France)

Gaiti Dominique (University of Technology of Troyes, France)

Chapter 10

Packet Scheduling in Home and Business Femtocell Networks

Sevindik Volkan (Airvana Inc., USA)

Bayat Oguz (Airvana Inc., USA)

Chapter 11

Multimedia Broadcasting in LTE Networks

Alexiou Antonios (University of Patras, Greece)

Bouras Christos (Computer Technology Institute & Press “Diophantus”,

Greece & University of Patras, Greece)

Kokkinos Vasileios (Computer Technology Institute & Press “Diophantus”,

Greece & University of Patras, Greece)

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Greece & University of Patras, Greece)

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Chapter 12

Traffic Prioritization in Sensor Networks using Bandwidth Scavenging

Plummer Anthony (Michigan State University, USA)

Taghizadeh Mahmoud (Michigan State University, USA)

Biswas Subir (Michigan State University, USA)

Chapter 13

Adaptive Coexistence between Cognitive and Fiber Networks

Al-Dulaimi Anwer (Brunel University, UK)

Al-Rubaye Saba (Brunel University, UK)

Cosmas John (Brunel University, UK)

Chapter 14

Improving of QoS in WiFi Access Networks

Marrero Domingo (University of Las Palmas of Gran Canaria, Spain)

Macías Elsa (University of Las Palmas of Gran Canaria, Spain)

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