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

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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

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

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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