Multimedia Services and Applications in Mission Critical Communication Systems

Part of the Advances in Wireless Technologies and Telecommunication Book Series

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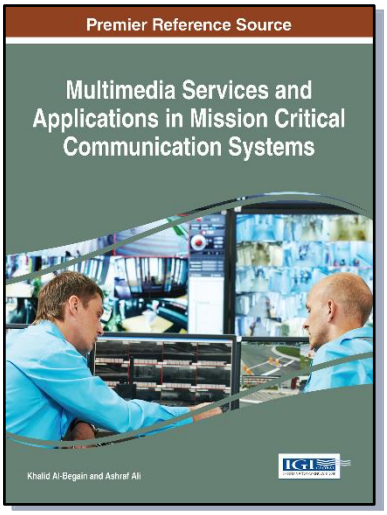

Description:

In emergency and disaster scenarios, it is vital to have a stable and effective infrastructure for relaying communication to the public. With the advent of new technologies, more options are available for enhancing communication systems.

Multimedia Services and Applications in Mission Critical Communication Systems is a comprehensive source of academic research on the challenges and solutions in creating stable mission critical systems and examines methods to improve system architecture and resources. Highlights innovative perspectives on topics such as quality of service, performance metrics, and intrusion detection.

Readers:

This book is ideally designed for practitioners, professionals, researchers, graduate students, and academics interested in public safety communication systems.

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Topics Covered:

- Heterogeneous Networks
- Intrusion Detection
- Performance Metrics
- Quality of Service (QoS)
- Heterogeneous Networks
- Retransmission Protocols
- Ultra-High-Definition Video Transmission
- Wireless Video

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Table of Contents

Khalid Al-Begain is a Professor of Mobile Computing and Networking at the University of South Wales, UK. He is also the Director of the Centre of Excellence in Mobile and Emerging Technologies (CEMET), a 6.45million R&D Centre partly funded by European Funding. He is currently seconded to lead as first President, the establishment of Kuwait College of Science and Technology, a leading private university in the Gulf He received his MSc and PhD in Communications engineering in 1986 and 1989, respectively, from Budapest University of Technology, Hungary. He also received Post Graduate Diploma in Management from University of Glamorgan in 2011 after finishing two years MBA course modules. He has been working in different universities and research centres in Jordan, Hungary, Germany and the UK. He has led and is leading several projects in mobile Computing, wireless networking, analytical and numerical modelling and performance evaluation He is the President of the European Council for Modelling and Simulation since 2006 and Past-President of the Federation of European Simulation Societies (EuroSim). He has over 200 publications including 2 authored and 18 edited books.

Ashraf Ali is a lecturer in the Electrical Engineering Department at The Hashemite University in Jordan, currently he is a researcher at University of South Wales working in a research project in developing mission critical communication systems over broadband 4G/5G communication Systems. along with his research interests, he is a lecturer of graduate modules such as Mobile Communication Technologies at University of South Wales and a lecturer for Electrical Circuits, Signals and Systems, Engineering Mathematics, Electronics, Data and Multimedia Communications at The Hashemite University. He worked as Research Assistant at Intracom Telecom and Athens Information Technology where he worked with the industry in developing multimedia and real time services over broadband communication technologies. He worked as research assistant in the computer engineering department at Jordan University for Science and Technology. He is an author of multiple research papers in the field of multimedia services modeling and broadband communications performance evaluation.