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## Editorial

## Multimedia Transmission over Emerging Wireless Technologies

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The efficient delivery of multimedia applications and services over emerging diverse and heterogeneous wireless networks (e.g., 2.5G/3G/4G, WI-Max, WLANs, PANs, ad hoc, etc.) is a challenging research objective. The research effort for the 3G/4G vision of interworking among heterogeneous technologies to achieve multimedia session continuity, retain multimedia QoS characteristics, and so forth amplifies the need to evaluate the conditions and restrictions under which delivery of such services can be accomplished. Furthermore, there are several research issues such as encoding techniques, cross-layer optimization, error control, security require considerable researcheffort so that appropriate solutions are designed and developed. The objective of this Special Issue is to present state-of-the-art research and developing activities contributing to all facets of multimedia across beterogeneous emerging wireless technologies (e.g., 4G, ad hoc, Wi-Max, etc.). This Special Issue aims to disseminate state-of-the-art research, development, and novel solutions of multimedia transmission over wireless/mobile-networked multimedia ad hoc systems and technologies.

The first paper entitled "WLAN technologies for audio delivery" by N. Tatlas et al. presents audio delivery over WLAN and investigates the synchronized and robust realtime streaming of multiple audio channels to multipoint receivers, for example, wireless active speakers. A novel synchronization scheme is also introduced, allowing optimized playback for multiple receivers. The perceptual audio performance is assessed for both stereo and 5-channel applications based on either PCM or compressed audio signals.

The second paper entitled "Efficient TTI for 3G multimedia applications" by C. Chaikalis addresses time transmission interval (TTI), which is a very important task for implementing optimum UMTS turbo coding in flat Rayleigh fading environment. Different multimedia scenarios are investigated by C. Chaikalis, using maximum UMTS frame length. It is shown that different operating environments require appropriate TTI in terms of BER performance for a variety of data rates.

The impact of data transfer service, multimedia streaming service, web service, and traffic load on speech quality in an environment of WLANs (IEEE 802.11) has been examined at the third paper entitled "Impact of background traffic on speech quality in VoWLAN" by P. Pocta et al. In their paper, a new method for improving the detection of the critical conditions in wireless networks from the speech quality point of view is presented.

The forth paper entitled "Fuzzy logic control of adaptive ARQ for video distribution over a Bluetooth wireless link" by R. Razavi et al. considers adaptive ARQ, suitable for video transmission over Bluetooth links. The authors present a fuzzy logic control of ARQ, based on send buffer fullness and the head-of-line packet's deadline. The scheme considers both the delay constraints of the video stream and at the same time avoids send buffer overflow. Tests explore a variety of Bluetooth send buffer sizes and channel conditions.

The fifth paper entitled "Utilizing cross-layer information to improve performance in JPEG2000 decoding" by H. Persson et al. focuses on wireless multimedia communication and investigates the scenario of how the cross-layer information can be used to improve the performance in image quality at the application layer using the IPEG2000 standard.

The sixth paper entitled "Joint optimization in UMTSbased video transmission" by A. Zsiros et al. presents a new software platform to enable demonstration and capacity testing within the framework of IST-PHOENIX project. The developed platform simulates a joint optimized UMTS video transmission.

# <u>Multimedia Transmission Over Emerging Wireless</u> <u>Technologies</u>

**Apostolis Salkintzis, Nikos Passas** 

## Multimedia Transmission Over Emerging Wireless Technologies:

<u>Multimedia Transmission Over Emerging Wireless Technologies</u> Stavros Kotsopoulos, Tasos Dagiuklas, 2007-10-01 <u>Emerging Research on Networked Multimedia Communication Systems</u> Kanellopoulos, Dimitris, 2015-08-14

Handbook on Sensor Networks Yang Xiao, Hui Chen, Frank Haizhon Li, 2010 Sensor networks have many interesting applications with great utility however their actually deployment and realization rely on continuous innovations and solutions to many challenging problems Thus sensor networks have recently attracted the attention of many researchers and practitioners The compilation of the Handbook on Sensor Networks will meet the demand of the sensor network community for a comprehensive reference and summary of the current state of the area The Handbook on Sensor Networks is a collection of approximately 40 chapters on sensor network theory and applications The book spans a wide spectrum and includes topics in medium access control routing security and privacy coverage and connectivity modeling and simulations multimedia energy efficiency localization and tracking design and implementation as well as sensor network applications

Wireless Communication Technologies: New MultiMedia Systems Norihiko Morinaga, Ryuji Kohno, Seiichi Sampei, 2006-04-18 During 12 15 of September 1999 10th International Symposium on P sonal Indoor and Mobile Radio Communications PIMRC 99 was held in Osaka Japan and it was really a successful symposium that accommodated more than 600 participants from more than 30 countries and regions PIMRC is really well organized annual symposium for wireless multimedia commu cation systems in which various up to date topics are discussed in the invited talk panel discussions and tutorial sessions One of the unique features of the PIMRC is that PIMRC is continuing to publish from Kluwer Academic Publishers since 1997 a book that collects the hottest topics discussed in PIMRC In PIMRC 97 Invited talks were sum rized in Wireless Communications TDMA versus CDMA ISBN 0 7923 8005 3 and it was published just beforePIMRC 97 This book was also distributed to all the PIMRC 97 participants as a part of proceedings for the conference In PIMRC 98 extended version of the invited papers were s marized in Wireless Multimedia Network Technologies ISBN 0792386337 and published in September 1999 which is almost the same timing for the PIMRC 99 In the case of PIMRC 99 to produce more informative book we have lected topics that attracted many PIMRC 99 participants during the conf ence and invited prospective authors not only from the invited speakers but also from tutorial speakers panel organizers panelists and some other exc lent PIMRC 99 participants Emerging Wireless Multimedia Apostolis Salkintzis, Nikos Passas, 2005-10-31 The provision of IP based multimedia services is one of the most exiting and challenging aspects of next generation wireless networks A significant evolution has been underway for enabling such multimedia services and for ultimately migrating the Internet to the wireless world This book examines this evolution looking at an array of the most up to date wireless multimedia technologies and services The first part focuses on enabling technologies for wireless multimedia while the second is dedicated to the new wireless multimedia services that are expected to play a key role in the future wireless environment In addition the related

recent standardization research and industry activities are addressed Covers a complete range of multimedia hot topics ranging from audio video coding techniques to multimedia protocols and applications Discusses QoS issues in WLANs 3G and hybrid 3G WLAN networks Provides in depth discussion of the most modern multimedia services such as Push to Talk Instant Messaging Presence mobile payments MMS WAP and location based multimedia services Addresses the emerging Multimedia Broadcast Multicast Service MBMS and the key aspects of IP Multimedia Subsystem IMS in 3G networks Numerous on line references will assist readers in their quest for the most up to date information This comprehensive resource will have instant appeal to students in electrical and computer engineering or IT disciplines It is also essential reading for engineering managers engineers in wireless systems and multimedia and wireless multimedia researchers

Modeling and Simulation of Computer Networks and Systems Faouzi Zarai, Petros Nicopolitidis, 2015-04-21 Modeling and Simulation of Computer Networks and Systems Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems It focuses on the theories tools applications and uses of modeling and simulation in order to effectively optimize networks It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry discuss Important and emerging topics in computer networks and systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies strategies and tools and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including mobility congestion quality of service security and more Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation Discusses important and emerging topics in computer networks and Systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility congestion quality of service security and more Computer Science Engineering and Emerging Technologies Rajeev Sobti, Rachit Garg, Ajeet Kumar Srivastava, Gurpeet Singh Shahi, 2024-06-07 The year 2022 marks the 100th birth anniversary of Kathleen Hylda Valerie Booth who wrote the first assembly language and designed the assembler and auto code for the first computer systems at Birkbeck College University of London She helped design three different machines including the ARC Automatic Relay Calculator SEC Simple Electronic Computer and APE X School of Computer Science and Engineering under the aegis of Lovely Professional University pays

homage to this great programmer of all times by hosting BOOTH100 6th International Conference on Computing Sciences **Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT** Valentina E. Balas, G. R. Sinha, Basant Agarwal, Tarun Kumar Sharma, Pankaj Dadheech, Mehul Mahrishi, 2022-05-25 This book constitutes the refereed proceedings of the 5th International Conference on Emerging Technologies in Computer Engineering ICETCE 2021 held in Jaipur India in February 2022 The 40 revised full papers along with 20 short papers presented were carefully reviewed and selected from 235 submissions. The papers are organized according to the following topical headings cognitive computing Internet of Things IoT machine learning and applications soft computing data science and big data analytics blockchain and cyber security RF and Wireless Technologies: Know It All Bruce A. Fette, Praphul Chandra, Daniel M. Dobkin, Dan Bensky, Douglas B. Miron, David Lide, Farid Dowla, Ron Olexa, 2007-09-26 The Newnes Know It All Series takes the best of what our authors have written to create hard working desk references that will be an engineer s first port of call for key information design techniques and rules of thumb Guaranteed not to gather dust on a shelf RF radio frequency and wireless technologies drive communication today This technology and its applications enable wireless phones portable device roaming and short range industrial and commercial application communication such as the supply chain management wonder RFID Up to date information regarding software defined RF using frequencies smarter and using more of the spectrum with ultrawideband technology is detailed A 360 degree view from best selling authors including Roberto Aiello Bruce Fette and Praphul Chandra Hot topics covered including ultrawideband and cognitive radio technologies The ultimate hard working desk reference all the essential information techniques and tricks of the trade in one volume Advances in Multimedia Information Processing-Pcm 2001 Heung-Yeung Shum, Mark Liao, 2001 This book constitutes the refereed proceedings of the Second IEEE Pacific Rim Conference on Multimedia IEEE PCM 2001 held in Beijing China in October e2001 The revised 104 regular and 53 poster papers presented were carefully reviewed and selected from a total of 244 papers The papers are organized in sections on wearable computing retrieval techniques coding techniques systems visions and graphics face multimedia retrieval multimedia education multimedia presentation and databases data hiding image and video coding retrieval speech and sound networking spoken dialog multimedia security multimedia networking learning and recognition and watermarking

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