

# Table of Contents

Preface..... xv

Acknowledgment ..... xxi

## Section 1 Multimedia Networking

### Chapter 1

Next Steps in Multimedia Networking..... 1  
*Dimitris N. Kanellopoulos, University of Patras, Greece*

### Chapter 2

Media Synchronization Control in Multimedia Communication ..... 25  
*Mya Sithu, Nagoya Institute of Technology, Japan*  
*Yutaka Ishibashi, Nagoya Institute of Technology, Japan*

## Section 2 Video Coding and Video Streaming

### Chapter 3

Multiple Description Coding for Multipath Video Streaming..... 63  
*Pedro Correia, Instituto de Telecomunicacoes/Polytechnic Institute of Tomar/ESTT, Portugal*  
*Pedro A. Amado Assuncao, Instituto de Telecomunicacoes/Polytechnic Institute of Leiria/  
ESTG, Portugal*  
*Vitor Silva, Instituto de Telecomunicacoes/University of Coimbra/DEEC, Portugal*

### Chapter 4

Data Partitioning: A Video Source-Coding Technique for Layered Video and Error Resilience ..... 118  
*Martin Fleury, University of Essex, UK*  
*Laith Al-Jobouri, University of Essex, UK*

## **Chapter 5**

Adding Context Information to Video Analysis for Surveillance Applications .....	159
<i>Solmaz Javanbakhti, Eindhoven University of Technology, Netherlands</i>	
<i>Xinfeng Bao, Eindhoven University of Technology, Netherlands</i>	
<i>Ivo Creusen, Eindhoven University of Technology, Netherlands</i>	
<i>Lykele Hazelhoff, Eindhoven University of Technology, Netherlands</i>	
<i>Willem P. Sanberg, Eindhoven University of Technology, Netherlands</i>	
<i>D.W.J.M. (Denis) van de Wouw, Eindhoven University of Technology, Netherlands</i>	
<i>Gijs Dubbelman, Eindhoven University of Technology, Netherlands</i>	
<i>Svitlana Zinger, Eindhoven University of Technology, Netherlands</i>	
<i>Peter H.N. de With, Eindhoven University of Technology, Netherlands</i>	

### **Section 3**

#### **Video Broadcasting and Multimedia Transmission**

## **Chapter 6**

Video Broadcasting Protocol for Streaming Applications with Cooperative Clients .....	205
<i>Jian Feng, Hong Kong Baptist University, China</i>	
<i>Kwok-Tung Lo, Hong Kong Polytechnic University, China</i>	

## **Chapter 7**

Multimedia Transmission in Wireless Sensor Networks .....	230
<i>Daniel G. Costa, State University of Feira de Santana, Brazil</i>	
<i>Luiz Affonso Guedes, Federal University of Rio Grande do Norte, Brazil</i>	
<i>Francisco Vasques, University of Porto, Portugal</i>	
<i>Paulo Portugal, University of Porto, Portugal</i>	

### **Section 4**

#### **Quality of Experience and Quality of Service**

## **Chapter 8**

Multimedia Quality of Experience .....	250
<i>Jeevan Pokhrel, Montimage, France &amp; Institut Mines-Telecom, France</i>	
<i>Natalia Kushik, Tomsk State University, Russia</i>	
<i>Bachar Wehbi, Montimage, France</i>	
<i>Nina Yevtushenko, Tomsk State University, Russia</i>	
<i>Ana Rosa Cavalli, Institut Mines-Telecom, France</i>	

## **Chapter 9**

QoE Measurements and Analysis for VoIP Services .....	285
<i>Ramon Sanchez-Iborra, Universidad Politecnica de Cartagena, Spain</i>	
<i>Maria-Dolores Cano, Universidad Politecnica de Cartagena, Spain</i>	
<i>Salvador Moreno-Urrea, Universidad Politecnica de Cartagena, Spain</i>	
<i>Joel J. P. C. Rodrigues, Instituto de Telecomunicações, University of Beira Interior, Portugal &amp; King Saud University, Saudi Arabia</i>	

<b>Chapter 10</b>	
Quality of Experience Factors for Mobile TV Users.....	309
<i>Dimitris N. Kanellopoulos, University of Patras, Greece</i>	

### Section 5

### Networked Music Performance and Digital Cinema Chain

<b>Chapter 11</b>	
Facilitating Open Source Software and Standards to Assembly a Platform for Networked Music Performance .....	334
<i>Panagiotis Zervas, Technological Educational Institute of Crete, Greece</i>	
<i>Chrisoula Alexandraki, Technological Educational Institute of Crete, Greece</i>	

<b>Chapter 12</b>	
A Review of the Digital Cinema Chain: From Production to Distribution .....	366
<i>Andreja Samčović, University of Belgrade, Serbia</i>	

<b>Compilation of References .....</b>	<b>395</b>
--	------------

<b>About the Contributors .....</b>	<b>438</b>
-------------------------------------	------------

<b>Index.....</b>	<b>446</b>
-------------------	------------