

# Contents

## Cellular Network Management and Self-Organizing Networks

A Scoring Method for the Verification of Configuration Changes in Self-Organizing Networks . . . . .	3
<i>Szabolcs Nováczki, Tsvetko Tsvetkov, Henning Sanneck, and Stephen S. Mwanje</i>	
The Shared Spectrum Service, Technology and Network Provision in Mobile Communication . . . . .	16
<i>Esko Luttinen and Marcos Katz</i>	
Alarm Prioritization and Diagnosis for Cellular Networks. . . . .	28
<i>Gabriela F. Ciocarlie, Eric Yeh, Christopher Connolly, Cherita Corbett, Ulf Lindqvist, Henning Sanneck, Kimmo Hatonen, Szabolcs Nováczki, Muhammad Naseer-Ul-Islam, and Borislava Gajic</i>	
Exposure Assessment in Heterogeneous Networks Accounting for up- and Downlinks. . . . .	43
<i>Daniel Sebastião, B.W. Martijn Kuipers, and Luis M. Correia</i>	
A Predictive Model for Minimising Power Usage in Radio Access Networks. . . . .	55
<i>Emmett Carolan, Seamus C. McLoone, and Ronan Farrell</i>	
A Framework for Cell-Association Auto Configuration of Network Functions in Cellular Networks. . . . .	68
<i>Stephen S. Mwanje, Janne Ali Tolppa, and Tsvetko Tsvetkov</i>	

## Radio Resource Management in LTE and 5G Networks

On the Performance of Indoor Ultra-Dense Networks for Millimetre-Wave Cellular Systems . . . . .	83
<i>Saray Renilla Lamas, David González G., and Jyri Hämäläinen</i>	
Optimal Uplink Scheduling for Device-to-Device Communication with Mode Selection . . . . .	95
<i>Raphael Elsner, John-Torben Reimers, Maciej Mühleisen, and Andreas Timm-Giel</i>	
Making HeNB More Secure with Improved Secure Access Protocol and Analyzing It . . . . .	107
<i>Fariba Ghasemi Najm, Ali Payandeh, and Hashem Habibi</i>	

Radio-Aware Service-Level Scheduling to Minimize Downlink Traffic Delay Through Mobile Edge Computing . . . . .	121
<i>Jose Oscar Fajardo, Ianire Taboada, and Fidel Liberal</i>	

## Techniques and Algorithms for Wireless Networks

A Context-Aware Method Decoupled from Protocol for Adapting Routing Process in DTN . . . . .	137
<i>Cinara Menegazzo, Eduardo Spinosa, and Luiz Carlos P. Albini</i>	

Algorithms for Theoretical Investigation of Fairness in Multipath Transport . . . .	150
<i>Amanpreet Singh, Andreas Könsgen, Hakim Adhari, Carmelita Görg, and Erwin P. Rathgeb</i>	

Lightweight Random Linear Coding over Wireless Mesh Networks. . . . .	164
<i>Pablo Garrido, David Gómez, Jorge Lanza, Ramón Agüero, and Joan Serrat</i>	

## Video Streaming over Wireless Networks

Energy Considerations for WiFi Offloading of Video Streaming . . . . .	181
<i>Valentin Burger, Fabian Kaup, Michael Seufert, Matthias Wichtlhuber, David Hausheer, and Phuoc Tran-Gia</i>	

On the Use of Emulation Techniques over the ns-3 Platform to Analyze Multimedia Service QoS . . . . .	196
<i>Juan Arroyo, Luis Diez, and Ramón Agüero</i>	

## Applications and Services

Analyzing the Impact of Delay and Packet Loss on Google Docs . . . . .	211
<i>Lam Dinh-Xuan, Christian Schwartz, Matthias Hirth, Florian Wamser, and Huong Truong Thu</i>	

Analysis of Group-Based Communication in WhatsApp. . . . .	225
<i>Michael Seufert, Anika Schwind, Tobias Hoßfeld, and Phuoc Tran-Gia</i>	

A Novel Data Dissemination Model for Organic Data Flows . . . . .	239
<i>Anna Foerster, Asanga Udugama, Carmelita Görg, Koojana Kuladinithi, Andreas Timm-Giel, and Alejandro Cama-Pinto</i>	

Using an Identity Plane for Adapting Network Behavior to User and Service Requirements. . . . .	253
<i>Pedro Martinez-Julia and Antonio F. Skarmeta</i>	

**Wireless Sensor Networks and IoT Architectures**

FESTIVAL: Towards an Intercontinental Federation Approach . . . . .	269
<i>Juan R. Santana, José A. Galache, Toyokazu Akiyama, Levent Gurgun, Morito Matsuoka, Martino Maggio, and Shuuichirou Murata</i>	
The Presidium of Wireless Sensor Networks - A Software Defined Wireless Sensor Network Architecture . . . . .	281
<i>Donna O'Shea, Victor Cionca, and Dirk Pesch</i>	
<b>Author Index</b> . . . . .	293

Mobile Networks and Management

7th International Conference, MONAMI 2015,

Santander, Spain, September 16-18, 2015, Revised

Selected Papers

Agüero, R.; Zinner, Th.; García-Lozano, M.; Wenning,  
B.-L.; Timm-Giel, A. (Eds.)

2015, XI, 294 p. 127 illus. in color., Softcover

ISBN: 978-3-319-26924-5