Contents

Invited Papers

Smart City Concepts: Chances and Risks of Energy Efficient Urban Development .................................................. 3
   Rudolf Giffinger

Smart Cities Concept and Challenges: Bases for the Assessment of Smart City Projects ........................................... 17
   Andres Monzon

Constructing Human Smart Cities ......................................................... 32
   Álvaro de Oliveira, Margarida Campolargo, and Maria Martins

An Open Platform for Children’s Independent Mobility ....................... 50
   Matteo Gerosa, Annapaola Marconi, Marco Pistore, and Paolo Traverso

Smart Cities and Green ICT Systems

Architectures and Requirements for the Development of Smart Cities: A Literature Study ........................................... 75
   Christiana Kyriazopoulou

People in Smart Buildings: Daily Practices in Automated Areas ........... 104
   A. Coulbaut-Lazzarini and G. Bailly

Introducing Flexibility into Data Centers for Smart Cities .................... 128
   Sonja Klingert, Florian Niedermeier, Corentin Dupont, Giovanni Giuliani, Thomas Schulze, and Hermann de Meer

Automatic Validation for Crowd Simulation: Test Suite for a Pedestrian Simulator Based on Different Scenarios ............ 146
   Yayun Zhou, Wolfram Klein, and Hermann Georg Mayer

A 2DOFvibrational Energy Harvester Exploiting Velocity Amplification: Modeling and Testing ..................................... 165
   Elisabetta Boco, Valeria Nico, Declan O’Donoghue, Ronan Frizzell, Gerard Kelly, and Jeff Punch

Voltage Control in Low Voltage Grids with Distributed Energy Resources:
A Droop-Based Approach ................................................................. 184
   António Grilo and Mário Nunes
A Sensitivity Based Approach for Efficient PMU Deployment on Smart Grid .......................................................... 199
Richard Barella, Duc Nguyen, Ryan Winter, Kuei-Ti Lu, Scott Wallace, Xinghui Zhao, and Eduardo Cotilla-Sanchez

Using Flexibility Information for Planning the Energy Demand of Households .................................................... 216
Sandford Bessler, Domagoj Drenjanac, Eduard Hasenleithner, and Nuno Silva

Vehicle Technology and Intelligent Transport Systems

Laser Scanner and Camera Fusion for Automatic Obstacle Classification in ADAS Application ................................................. 237
Aurelio Ponz, C.H. Rodriguez-Garavito, Fernando Garcia, Philip Lenz, Christoph Stiller, and J.M. Armingol

Vehicle Routing to Minimizing Hybrid Fleet Fuel Consumption .......... 250
Fei Peng, Amy M. Cohn, Oleg Gusikhin, and David Perner

Service Oriented Big Data Management for Transport ................. 267
Gavin Kemp, Genoveva Vargas-Solar, Catarina Ferreira Da Silva, Parisa Ghodous, and Christine Collet

An Integrated Architecture for Simulation and Modeling of Small- and Medium-Sized Transportation and Communication Networks .... 282
Ahmed Elbery, Hesham Rakha, Mustafa Y. ElNainay, and Mohammad A. Hoque

Privacy Endangerment from Protocol Data Sets in VANETs and Countermeasures .................................................. 304
Sebastian Bittl and Arturo A. Gonzalez

Author Index ............................................................................. 323
Smart Cities, Green Technologies, and Intelligent Transport Systems
4th International Conference, SMARTGREENS 2015, and 1st International Conference VEHITS 2015, Lisbon, Portugal, May 20-22, 2015, Revised Selected Papers
Helfert, M.; Krempels, K.-H.; Klein, C.; Donnellan, B.; Gusikhin, O. (Eds.)
2015, XII, 323 p. 137 illus. in color., Softcover
ISBN: 978-3-319-27752-3