

## Table of Contents

VANETs Networking Protocols: An Analytical Study <i>Samira Harrabi, Ines Ben Jaafar, and Khaled Ghedira</i>	1
A Low-Power, Tricky and Very Easy to Use Sensor Network Gateway Architecture with Application Example <i>Susanne Kenner and Klaus Volbert</i>	9
IoT-based Wireless Access Point for Underground Safety Services <i>Taewook Heo, Sanggi Hong, Jaehum Lee, and Inhwan Lee</i>	15
Improved Lossless Compression Algorithm in HEVC <i>Kibaek Kim and Jechang Jeong</i>	19
Field Study of Ice Detection on Structures Using Passive Thermal Infrared Imaging <i>Muhammad Virk</i>	25
Ice Detection Experimentation Setup Using Infrared and Active Heating <i>Taimur Rashid, Hassan A. Khawaja, and Kare Edvarsen</i>	30
Using AD5933 IC to Measure Dielectric Constant Variation of Atmospheric Ice <i>Umair Najeeb Mughal and Beibei Shu</i>	34
A Framework for Connectivity Monitoring in Wireless Sensor Networks <i>Daniel Pflieger and Ulrich Schmid</i>	40
A New Formalisation for Wireless Sensor Network Adaptive Context-aware System: Application to an Environmental Use Case <i>Jie Sun, Gil De Sousa, Catherine Roussey, Jean-Pierre Chanet, Francois Pinet, and Kun-Mean Hou</i>	49
Quality of Service and Energy Efficient Evaluation of Hierarchical and Flat Routing Protocols for Wireless Sensor Networks <i>Abdelbari Ben Yagouta and Bechir Ben Gouissem</i>	56
A Preventing Schema to Determinate Structural Damage in Buildings Caused by Earthquakes Using a Platform Based in Wireless Sensor Networks <i>Laura Margarita Rodriguez Peralta, Eduardo Ismael Hernandez, Roberto Lopez Caso, Lorna Veronica Rosas Tellez, Edna Patricia Santiago Vargas, and Christian Perez Aguilar</i>	63
Smart Services Through Smart Item Agent <i>Jiri Tengler, Juraj Fabus, Peter Kolarovszki, and Viktoria Fabusova</i>	71
Intelligent Shopping Trolley (IST) System by WSN to Support Hypermarket IoT Service	77

