

Table of Contents

Integrated Security for Embedded IoT Systems <i>Paul Fortier, Patrick DaSilva, and Benjamin Viall</i>	1
Event Detection Using Abductive Reasoning on Sensor Data <i>Bill Karakostas</i>	6
Application of Smart City Technology in Aiken, South Carolina <i>Adam Prey and Jiannan Zhai</i>	11
Azimuth Angle Estimation Using a Dual Accelerometer Vector Sensor with Active and Passive Underwater Signals <i>Paulo Santos, Paulo Felisberto, Sergio Jesus, Friedrich Zabel, and Anibal Matos</i>	15
Early Prediction of Hypoxia Based on Vitals Analysis and Predictive Analytics <i>Vahram Mouradian, Afarin Famili, Alexandra Kozhemiakina, and Mahdieh Ashiani</i>	21
A Fractional Order Impedance Sensor for Measuring the Quality of Drinking Water <i>Tarikul Islam, Shibli Shakil, Babita Lohani, and Subhas Chandra Mukhopadhyay</i>	25
Design and Simulation of Low Cost and Low Magnetic Field MRI System <i>Sweta Ghosh, Vikram Thakur, Rahul Shrestha, Shubhajit Roy Chowdhury, and Vinayak Hande</i>	31
Modeling and Simulation of Various Kinds of Blockage in Carotid Artery <i>Kshitij Shakya and Shubhajit Roy Chowdhury</i>	37