

Contents

Cities and Territory

Sustainable Road Infrastructures Using Smart Materials, NDT, and FEM-Based Crack Prediction	3
<i>Rosario Fedele, Filippo Giammaria Praticò, and Gianfranco Pellicano</i>	
Quantifying the Carbon Dioxide Emissions Resulting from Awareness-Raising Actions of Sustainable Mobility.	15
<i>Pétilin Souza, Filipa Paiva, Lígia Silva, and Paulo Pereira</i>	
Leak Detection in Water Distribution Networks via Pressure Analysis Using a Machine Learning Ensemble.	31
<i>Vivencio C. Fuentes Jr. and Jhoanna Rhodette I. Pedrasa</i>	
Solutions for Improving the Energy Efficiency of Buildings Refurbishment. . . .	45
<i>Maria de Fátima Castro, Joana Andrade, Catarina Araújo, and Luís Bragança</i>	

Information and Technologies

Image Recognition to Improve Positioning in Smart Urban Environments . . .	59
<i>Sara Paiva, Pedro Rodrigues, and Benjamin Oliveira</i>	
An Hybrid Novel Layered Architecture and Case Study: IoT for Smart Agriculture and Smart LiveStock	71
<i>Pelagie Houngue, Romaric Sagbo, and Colombiano Kedowide</i>	
Agrilogistics - A Genetic Programming Based Approach	83
<i>Divya D. Kulkarni and Shivashankar B. Nair</i>	
Real World Third-Person with Multiple Point-of-Views for Immersive Mixed Reality.	97
<i>Zebo Yang, Mingshu Zhang, Taili Zhang, Linhao Fu, and Tatuso Nakajima</i>	
Internet of Things for Enhanced Smart Cities: A Review, Roadmap and Case Study on Air Quality Sensing	109
<i>Gonçalo Marques and Rui Pitarma</i>	

Citizen-Centre Needs

Smart Pedestrian Network: An Integrated Conceptual Model for Improving Walkability	125
<i>Fernando Fonseca, Paulo Ribeiro, Mona Jabbari, Elena Petrova, George Papageorgiou, Elisa Conticelli, Simona Tondelli, and Rui Ramos</i>	
Building Future Societies? A Brief Analysis of Braga's School Bus Project	143
<i>Emília Araújo, Márcia Silva, Rita Ribeiro, and Filipa Corais</i>	
City Rankings and the Citizens: Exposing Representational and Participatory Gaps.	154
<i>Ana Duarte Melo</i>	
Mobility Time Style: For an Integrated View of Time and Mobility in Societies with a Future.	170
<i>Catarina Sales Oliveira and Emília Araújo</i>	
Author Index	185