

## Table of Contents

Geographic Decision Making in Urban Management - A SOLAP Tool for the Analysis and the Management of Public Lighting in the City of Oran <i>Ahmed Saidi, Mohamed Faycal Khelfi, Abdellah Mebrek, and Abdelhak Trache</i>	1
Cultural Metro at Rome A Sustainable Transportation Example Extending Public Transportation System in Rome <i>Michele Angelaccio and Lucia Zappitelli</i>	8
Analyzing Spatio-Temporal Effects of Social-Economic Factors on Crime <i>Sebastian Baumbach, Nikita Sharma, Sheraz Ahmed, and Andreas Dengel</i>	11
GeoCubes Finland - A Unified Approach for Managing Multi-resolution Raster Geodata in a National Geospatial Research Infrastructure <i>Lassi Lehto, Jaakko Kahkonen, Juha Oksanen, and Tapani Sarjakoski</i>	18
Coupling an Unstructured NoSQL Database with a Geographic Information System <i>Amandine Holemans, Jean-Paul Kasprzyk, and Jean-Paul Donnay</i>	23
ClusterWIS - A Decentralized Forest Information and Management System for the Cluster Forestry and Wood <i>Jurgen Rossmann, Michael Schluse, Martin Hoppen, Gregor Nagele, Tobias Marquardt, Christoph Averdung, Werner Poschenrieder, and Fabian Schwaiger</i>	29
Assessing and Evaluating Standard Compliance with a State and Local Government GIS Metadata Profile in Large Geospatial Databases <i>Timothy Mulrooney</i>	36
Methodology of Knowledge Mapping for Arbitrary Objects and Entities: Knowledge Mining Knowledge Mining and Spatial Representations - Objects in Multi-dimensional Context <i>Claus-Peter Ruckemann</i>	40
Using Smart A* Algorithm to Solve TSP Navigation Problem <i>Hatem Halaoui</i>	46
A Spatial Decision Support System for Waste Management in Municipal Society of Lahore City <i>Muhammad Haris and Beenish Fatima</i>	52
National Geoinformation System Development in the Republic of Uzbekistan <i>Muzaffar Djalalov</i>	56
Motion Planning in 3D Environments Using Visibility Velocity Obstacles <i>Oren Gal and Yerach Doytsher</i>	60

A Case Study for a Multitemporal Segmentation Approach in Optical Remote Sensing Images <i>Wanderson Costa, Leila Fonseca, Thales Korting, Margareth Simoes, and Patrick Kuchler</i>	66
An Approach for Assessing Array DBMSs for Geospatial Raster Data <i>Janne Kovanen, Ville Makinen, and Tapani Sarjakoski</i>	71
Towards Modelling Privacy Risks in Geo-Social Networks <i>Alia Abdelmoty</i>	77