

---

## Contents

<b>Geocomputation and Urban Planning</b> <i>Beniamino Murgante, Giuseppe Borruso, Alessandra Lapucci . . . . .</i>	1
<b>Detection of Urban Socio-economic Patterns Using Clustering Techniques</b> <i>Devis Tuia, Christian Kaiser, Antonio Da Cunha, Mikhail Kanevski . . . . .</i>	19
<b>A Tale of Two Cities: Density Analysis of CBD on Two Midsize Urban Areas in Northeastern Italy</b> <i>Giuseppe Borruso, Andrea Porceddu . . . . .</i>	37
<b>Identification of “Hot Spots” of Social and Housing Difficulty in Urban Areas: Scan Statistics for Housing Market and Urban Planning Policies</b> <i>Silvestro Montrone, Paola Perchinunno, Antonia Di Giuro, Francesco Rotondo, Carmelo Maria Torre . . . . .</i>	57
<b>The Town at the End of the Town: Integration and Segregation in Suburbia</b> <i>Valerio Cutini . . . . .</i>	79
<b>Planning Evacuation by Means of a Multi-modal Mesoscopic Dynamic Traffic Simulation Model</b> <i>Massimo Di Gangi . . . . .</i>	99
<b>Improving Moran’s Index to Identify Hot Spots in Traffic Safety</b> <i>Elke Moons, Tom Brijs, Geert Wets . . . . .</i>	117
<b>Visual Impact Assessment in Urban Planning</b> <i>Maria Danese, Gabriele Nolè, Beniamino Murgante . . . . .</i>	133

<b>Urban Roughness Parameters Calculation in the City of Rome by Applying Analytical and Simplified Formulations: Comparison of Results</b> <i>Maria Ioannilli, Enrico Rocchi</i> .....	147
<b>An Object-Oriented Model for the Sustainable Management of Evolving Spatio-temporal Information</b> <i>Christine Plumejeaud, Bogdan Moisuc, Sandro Bimonte, Marlène Villanova, Jérôme Gensel</i> .....	167
<b>GIS and LIDAR Data Analysis for the Integration of Multidimensional Indicators on Urban Morphogenesis Multi-agent Vector Based Geosimulation</b> <i>Cláudio Carneiro, François Golay, Vitor Silva, Corinne Plazenet, Jong-Jin Park</i> .....	187
<b>Urban Pattern Morphology Time Variation in Southern Italy by Using Landsat Imagery</b> <i>Luciano Telesca, Rosa Coluzzi, Rosa Lasaponara</i> .....	209
<b>Predicting the Urban Spread Using Spatio-morphological Models</b> <i>Christine Voiron-Canicio</i> .....	223
<b>A Multi-Agent Geosimulation Infrastructure for Planning</b> <i>Ivan Blečić, Arnaldo Cecchini, Giuseppe A. Trunfio</i> .....	237
<b>A Participative Multi Agent System for Urban Sustainable Mobility</b> <i>Alessandra Lapucci, Silvana Lombardo, Massimiliano Petri, Marco Rotonda</i> .....	255
<b>Author Index</b> .....	281



<http://www.springer.com/978-3-540-89929-7>

Geocomputation and Urban Planning

Murgante, B.; Borruso, G.; Lapucci, A. (Eds.)

2009, VI, 281 p., Hardcover

ISBN: 978-3-540-89929-7