

# Contents

<b>1 Earthquake Hazard Impact and Urban Planning—An Introduction</b>	<b>1</b>
Maria Bostenaru Dan, Iuliana Armaş and Agostino Goretti	
<b>Part I Urban Hazard, Exposure and Vulnerability</b>	
<b>2 Active Fault Systems and Their Significance for Urban Planning in Bucharest, Romania</b>	<b>15</b>
Dumitru Ioane, Mihail Diaconescu, Florina Chitea and George Garbacea	
<b>3 Capacities of Remote Sensing for Population Estimation in Urban Areas</b>	<b>45</b>
Julia Kubanek, Eike-Marie Nolte, Hannes Taubenböck, Friedemann Wenzel and Martin Kappas	
<b>4 The Vulnerability of Fragile Landscape and Complex Hazards</b>	<b>67</b>
Cerasella Crăciun	
<b>Part II Earthquake Risk Assessment</b>	
<b>5 Scenarios for Local Seismic Effects of Tulcea (Romania) Crustal Earthquakes—Preliminary Approach of the Seismic Risk Characterization for Tulcea City</b>	<b>85</b>
Ştefan Florin Bălan, Dumitru Ioane, Carmen Cioflan, Ionelia Panea, Bogdan Apostol, Zina Malita, Florina Chitea and Mirela Adriana Anghelache	
<b>6 High-Detail Damage Pattern in Towns Hit by Earthquakes of the Past: An Approach to Evaluate the Reliability of the Historical Sources</b>	<b>105</b>
Fabrizio Terenzio Gizzi, Lucia Tilio, Nicola Masini, Beniamino Murgante, Maria Rosaria Potenza and Cinzia Zotta	

<b>7 Spatial Multi-Criteria Risk Assessment of Earthquakes from Bucharest, Romania</b>	127
Iuliana Armaş and Mircea Rădulan	
<b>8 The Urban System of Crotone, Italy, Facing the Earthquake Impact</b>	151
Agostino Goretti, Sabino Vetta, Francesco Palmieri, Fabio Adamo, Massimo Berlingeri and Luigi Palmieri	
<b>Part III Risk Management</b>	
<b>9 Principles for the Evaluation of Risk Governance and the Measurement of Performance</b>	171
Urbano Fra Paleo	
<b>10 Continuity and Discontinuity of Urban Form—The Issue of Risk</b>	195
Tiberiu Florescu	
<b>11 Timber Frame Historic Structures and the Local Seismic Culture—An Argumentation</b>	213
Maria Bostenaru Dan	
<b>12 Design in Time of Crisis</b>	231
Sergiu Cătălin Petrea	
<b>Part IV Impact and Decision Making Tools</b>	
<b>13 A Proposal to Improve the Disaster Management Cycle Model: the Importance of Community Participation</b>	249
Alessia Cerqua and Silvia Rapicetta	
<b>14 Aspects of Architecture and Urbanism in the Reconstruction of Disaster: Comparison of L' Aquila (Italy) with Kolontar/Devecser (Hungary) and Corbeni (Romania) in the Context of Participative Reconstruction</b>	259
Maria Bostenaru Dan	
<b>15 Earthquake Hazard Impact and Urban Planning—Conclusion and Recommendations for Further Work</b>	293
Maria Bostenaru Dan, Iuliana Armaş, Alexandru-Ionuţ Petrişor, Alessia Cerqua, Cristina Olga Gociman and Agostino Goretti	
<b>Index</b>	307

Earthquake Hazard Impact and Urban Planning

Bostenaru Dan, M.; Armas, I.; Goretti, A. (Eds.)

2014, XIII, 313 p. 155 illus., 100 illus. in color.,

Hardcover

ISBN: 978-94-007-7980-8