

Table of Contents

Investigating Recursive Point Voronoi Diagrams	1
<i>Barry Boots, Robert Feick, Narushige Shiode, and Steven Roberts</i>	
Distinguishing Instances and Evidence of Geographical Concepts for Geospatial Database Design	22
<i>Boyan Brodaric and Mark Gahegan</i>	
Geographically Weighted Local Statistics Applied to Binary Data	38
<i>Chris Brunsdon, Stewart Fotheringham, and Martin Charlton</i>	
Transmitting Vector Geospatial Data across the Internet	51
<i>Barbara P. Buttenfield</i>	
GeoVSM: An Integrated Retrieval Model for Geographic Information	65
<i>Guoray Cai</i>	
An Evaluation of Buffering Algorithms in Fuzzy GISs	80
<i>Damien Duff and Hans W. Guesgen</i>	
From Geo- to Eco-ontologies	93
<i>Frederico Fonseca, James Martin, and M. Andrea Rodríguez</i>	
Modeling the Semantics of Geographic Categories through Conceptual Integration	108
<i>Werner Kuhn</i>	
A Graded Approach to Directions between Extended Objects	119
<i>Lars Kulik, Carola Eschenbach, Christopher Habel, and Hedda Rahel Schmidtke</i>	
Analyzing Relative Motion within Groups of Trackable Moving Point Objects	132
<i>Patrick Laube and Stephan Imfeld</i>	
A Comparison of Spatio-temporal Interpolation Methods	145
<i>Lixin Li and Peter Revesz</i>	
Multi-agent Systems for Web-Based Map Information Retrieval	161
<i>Maozhen Li, Sheng Zhou, and Christopher B. Jones</i>	
New Methods to Generate Neutral Images for Spatial Pattern Recognition	181
<i>Niels Liebisch, Geoffrey Jacquez, Pierre Goovaerts, and Andreas Kaufmann</i>	

Combining Mediator and Data Warehouse Technologies for Developing Environmental Decision Support Systems	196
<i>Ana Maria de C. Moura, Marcio Victorino, and Asterio Tanaka</i>	
Topologically-Consistent Map Generalisation Procedures and Multi-scale Spatial Databases	209
<i>P.M. van der Poorten, Sheng Zhou, and Christopher B. Jones</i>	
Mobile Journey Planning for Bus Passengers	228
<i>Desmond Rainsford and William A. Mackaness</i>	
Enriching Wayfinding Instructions with Local Landmarks	243
<i>Martin Raubal and Stephan Winter</i>	
A Content-Based Approach to Searching and Indexing Spatial Configurations	260
<i>M. Andrea Rodríguez and Francisco A. Godoy</i>	
A Qualitative Account of Discrete Space	276
<i>Anthony J. Roy and John G. Stell</i>	
A New Approach to Incorporate Uncertainty in Terrain Modeling	291
<i>Jorge Santos, Weldon A. Lodwick, and Arnold Neumaier</i>	
Decomposing Integer Programming Models for Spatial Allocation	300
<i>Takeshi Shirabe and C. Dana Tomlin</i>	
An Operational Metadata Framework for Searching, Indexing, and Retrieving Distributed Geographic Information Services on the Internet . .	313
<i>Ming-Hsiang Tsou</i>	
“Humane” Interfaces to Improve the Usability of Data Clearinghouses . . .	333
<i>Kuuiipo A. Walsh, Cherri M. Pancake, Dawn J. Wright, Sally Haerer, and F.J. Hanus</i>	
Integrating Spatio-thematic Information	346
<i>Michael Worboys and Matt Duckham</i>	
Author Index	363