

Contents

Topological and Geometric Data Handling for Time-Dependent Geo-Objects Realized in DB4Geo	1
Martin Breunig, Edgar Butwilowski, Paul Vincent Kuper, Daria Golovko and Andreas Thomsen	
Segmenting Trajectories by Movement States	15
Maike Buchin, Helmut Kruckenberg and Andrea Kölzsch	
The Case for 3D Visualization in DEM Assessment	27
Michael B. Gousie	
A Hybrid Shortest Path Algorithm for Intra-Regional Queries on Hierarchical Networks	45
Gutemberg Guerra-Filho and Hanan Samet	
A Formalization of Topological Relations Between Simple Spatial Objects	61
Gutemberg Guerra- Filho, Claudia Bauzer Medeiros and Pedro J. de Rezende	
A Time-Driven Mobile Location Aware Service for Distributing Campus Information	77
Jung-hong Hong, Zeal Su and Steve Yeh	
Evaluating the Cognitive Adequacy of the DLine-Region Calculus . . .	91
Alexander Klippel, Jinlong Yang, Rui Li and Jan Oliver Wallgrün	

Integrating Change Vector Analysis, Post-Classification Comparison, and Object-Oriented Image Analysis for Land Use and Land Cover Change Detection Using RADARSAT-2 Polarimetric SAR Images	107
Zhixin Qi and Anthony Gar-On Yeh	
Modifying Areal Interpolation Techniques for Analysis of Data on Food Assistance Benefits	125
Jerry Shannon and Francis Harvey	
Representing Terrain with Mathematical Operators	143
Christopher Stuetzle and W. Randolph Franklin	
A New Algorithm for 3D Isovists	157
Wassim Suleiman, Thierry Joliveau and Eric Favier	
A Modeling Approach for the Extraction of Semantic Information from a Maritime Corpus	175
Dieudonné Tsatcha, Eric Saux and Christophe Claramunt	
Topological Adjustment of Polygonal Data	193
Jan Oliver Wallgrün	
Automatic Map Retrieval and Map Interpretation in the Internet.	209
Volker Walter, Fen Luo and Dieter Fritsch	