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This book constitutes the refereed proceedings of the 4th International Conference on Geographic Information Science, GIScience 2006, held in München, Germany in September 2006. The 26 revised full papers presented were carefully reviewed and selected from 93 submissions. Among the traditional topics addressed are spatial representations and data structures, spatial and temporal reasoning, computational geometry, spatial analysis, and databases. A significant number of papers deal with navigation, interoperability, dynamic modeling, ontology, and semantics. Geosensors, location privacy, social issues and GI research networks rank among the important and exciting new directions.

A Social and Spatial Network Approach to the Investigation of Research Communities over the World Wide WebProjective Relations in a 3D EnvironmentA Multi-resolution Representation for Terrain MorphologyA Spatiotemporal Model of Strategies and Counter Strategies for Location Privacy ProtectionIncorporating Landmarks with Quality Measures in Routing ProceduresWhat Is the Region Occupied by a Set of Points?Voronoi HierarchiesCharacterising Meanders QualitativelyLandmarks in OpenLS-A Data Structure for Cognitive Ergonomic Route DirectionsStatus Functions, Collective Intentionality: Matters of Trust for Geospatial Information SharingPattern Recognition in Road Networks on the Example of Circular Road DetectionImplementing AnchoringGenerating Raster DEM from Mass Points Via TIN StreamingTowards a Similarity-Based Identity Assumption Service for Historical PlacesCoupling Bayesian Networks with GIS-Based Cellular Automata for Modeling Land Use ChangeOrientation Calculi and Route Graphs: Towards Semantic Representations for Route DescriptionsIncremental Rank Updates for Moving Query PointsThe Head-Body-Tail Intersection for Spatial Relations Between Directed Line SegmentsA GIS-Based Approach for Urban Multi-criteria Quasi Optimized Route Guidance by Considering Unspecified Site SatisfactionOntological Analysis of Observations and MeasurementsSplitting the Linear Least Squares Problem for Precise Localization in Geosensor NetworksThe Spatial Dimensions of Multi-Criteria Evaluation   Case Study of a Home Buyer's Spatial Decision Support SystemGraph-Based Navigation Strategies for Heterogeneous Spatial Data Sets……Author Index

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