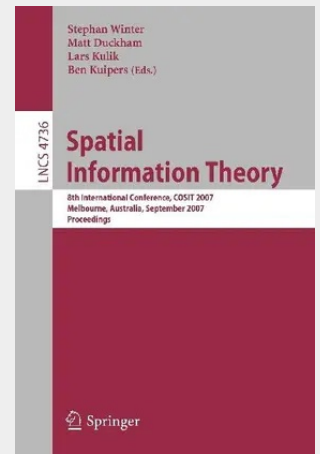


Spatial Information Theory

8th International Conference, COSIT 2007, Melbourne, Australia, September 19-23, 2007, Proceedings

This book constitutes the refereed proceedings of the 8th International Conference on Spatial Information Theory, COSIT 2007, held in Melbourne, Australia in September 2007. The 27 revised full papers were carefully reviewed from 102 submissions, and they are organized in topical sections on cultural studies, semantics, similarity, mapping and representation, perception and cognition, reasoning and algorithms, navigation and landmarks, as well as uncertainty and imperfection.

Cultural Studies.- Progress on Yindjibarndi Ethnophysiography.- Study of Cultural Impacts on Location Judgments in Eastern China.- Cross-Cultural Similarities in Topological Reasoning.- Thalassographie: Representing Maritime Spaces in Ancient Greece.- Semantics.- From Top-Level to Domain Ontologies: Ecosystem Classifications as a Case Study.- Semantic Categories Underlying the Meaning of 'Place'.- Spatial Semantics in Difference Spaces.- Similarity.- Evaluation of a Semantic Similarity Measure for Natural Language Spatial Relations.- Affordance-Based Similarity Measurement for Entity Types.- An Image-Schematic Account of Spatial Categories.- Mapping and Representation.- Specifying Essential Features of Street Networks.- Spatial Information Extraction for Cognitive Mapping with a Mobile Robot.- Spatial Mapping and Map Exploitation: A Bio-inspired Engineering Perspective.- Scale-Dependent Simplification of 3D Building Models Based on Cell Decomposition and Primitive Instancing.- Perception and Cognition.- Degradation in Spatial Knowledge Acquisition When Using Automatic Navigation Systems.- Stories as Route Descriptions.- Three Sampling Methods for Visibility Measures of Landscape Perception.- Reasoning and Algorithms.- Reasoning on Spatial Semantic Integrity Constraints.- Spatial Reasoning with a Hole.- Geospatial Cluster Tessellation Through the Complete Order-k Voronoi Diagrams.- Drawing a Figure in a Two-Dimensional Plane for a Qualitative Representation.- Navigation and Landmarks.- Linguistic and Nonlinguistic Turn Direction Concepts.- A Uniform Handling of Different Landmark Types in Route Directions.- Effects of Geometry, Landmarks and Orientation Strategies in the 'Drop-Off' Orientation Task.- Uncertainty and Imperfection.- Data Quality Ontology: An Ontology for Imperfect Knowledge.- Triangulation of Gradient Polygons: A Spatial Data Model for Categorical Fields.- Relations in Mathematical Morphology with Applications to Graphs and Rough Sets.



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