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Altri autori (Persone)	CohnA. G MarkDavid M
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Nota di contenuto	Vagueness, Uncertainty, and Gradation -- Anchoring: A New Approach to Handling Indeterminate Location in GIS -- Gradation and Map Analysis in Area-Class Maps -- Simulation of Obfuscation and Negotiation for Location Privacy -- Paths and Routes -- Investigating the Need for Eliminatory Constraints in the User Interface of Bicycle Route Planners -- Path Memory in Real-World and Virtual Settings -- Shortest Path Search from a Physical Perspective -- Ontology and Semantics -- Operationalising 'Sense of Place' as a Cognitive Operator for Semantics in Place-Based Ontologies -- Data-Driven Matching of

Geospatial Schemas -- The Role of Spatial Relations in Automating the Semantic Annotation of Geodata -- Ontology and Spatial Relations -- Anatomical Information Science -- Matching Names and Definitions of Topological Operators -- Spatial Relations Between Classes of Individuals -- Spatial Reasoning -- Casl Specifications of Qualitative Calculi -- A Spatial Form of Diversity -- Structure and Semantics of Arrow Diagrams -- Cognitive Maps and Spatial Reasoning -- Cognitive Maps Are over 60 -- Categorical Methods in Qualitative Reasoning: The Case for Weak Representations -- On Internal Cardinal Direction Relations -- Time, Change, and Dynamics -- Dynamic Collectives and Their Collective Dynamics -- A Linguistics-Based Framework for Modeling Spatio-temporal Occurrences and Purposive Change -- Ordering Events for Dynamic Geospatial Domains -- Landmarks and Navigation -- Structural Salience of Landmarks for Route Directions -- Expert and Non-expert Knowledge of Loosely Structured Environments -- Landmark Extraction: A Web Mining Approach -- Geographic Information -- Satellite Images -- A Source for Social Scientists? On Handling Multiple Conceptualisations of Space in Geographical Information Systems -- 3D Topographic Data Modelling: Why Rigidity Is Preferable to Pragmatism -- Morse-Smale Decompositions for Modeling Terrain Knowledge -- Spatial Behavior -- 2D-3D MultiAgent GeoSimulation with Knowledge-Based Agents of Customers' Shopping Behavior in a Shopping Mall -- Memory for Spatial Location: Influences of Environmental Cues and Task Field Rotation -- Network and Psychological Effects in Urban Movement -- Abstracts of Keynote Talks -- Probabilistic Techniques for Mobile Robot Navigation -- Spatial Language, Spatial Thought: Parallels in Path Structure.

## Sommario/riassunto

This volume contains the papers presented at the "Conference on Spatial Information Theory", held in Ellicottville, New York in September 2005. COSIT 2005 was the 7th International Conference held under the COSIT name. When Drew Frank and his colleagues organized the first COSIT conference on the island of Elba, Italy, in 1993, it represented the maturing of an international research community that had already met four or five times in the United States, Spain, and Italy. Of course, cognitive and computational approaches to space and spatial phenomena were not themselves new topics, but a context of providing theoretical underpinning for geographic information systems refocused some of these researchers and brought them up against practical and conceptual challenges. A second international symposium under the COSIT name, held in Semmering, Austria in 1995, established COSIT as a biennial conference series that continued at Laurel Highlands, Pennsylvania, USA (1997), Stade, Germany (1999), Morro Bay, California, USA (2001) and Ittingen, Switzerland (2003). A productive partnership with Springer's Lecture Notes in Computer Science has ensured that the papers from every COSIT meeting have been widely disseminated, and the COSIT community has contributed significantly to the development of Geographic Information Science, Geoinformatics and Spatial Information Theory in general.