1. Record Nr. UNINA9910143628503321

Titolo	Spatial Cognition II : Integrating Abstract Theories, Empirical Studies, Formal Methods, and Practical Applications / / edited by Christian Freksa, Wilfried Brauer, Christopher Habel, Karl F. Wender
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2000
ISBN	3-540-45460-8
Edizione	[1st ed. 2000.]
Descrizione fisica	1 online resource (XII, 424 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 1849
Disciplina	006.3/32
Soggetti	Artificial intelligence Geographic information systems Earth sciences Computer graphics Natural language processing (Computer science) Artificial Intelligence Geographical Information Systems/Cartography Earth Sciences, general Computer Graphics Natural Language Processing (NLP)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Maps and Diagrams -- Cognitive Zoom: From Object to Path and Back Again -- Monitoring Change: Characteristics of Dynamic Geo-spatial Phenomena for Visual Exploration -- The Use of Maps, Images and “Gestures” for Navigation -- Schematizing Maps: Simplification of Geographic Shape by Discrete Curve Evolution -- Schematic Maps as Wayfinding Aids -- Some Ways that Maps and Diagrams Communicate -- Spatial Communication with Maps: Defining the Correctness of Maps Using a Multi-Agent Simulation -- Schematic Maps for Robot Navigation -- Motion and Spatial Reference -- From Motion Observation to Qualitative Motion Representation -- Lexical Specifications of Paths -- Visual Processing and Representation of

Spatio-temporal Patterns -- Orienting and Reorienting in Egocentric Mental Models -- Investigating Spatial Reference Systems through Distortions in Visual Memory -- Spatial Relations and Spatial Inference -- Towards Cognitive Adequacy of Topological Spatial Relations -- Interactive Layout Generation with a Diagrammatic Constraint Language -- Inference and Visualization of Spatial Relations -- A Topological Calculus for Cartographic Entities -- The Influence of Linear Shapes on Solving Interval-Based Configuration Problems -- Navigation in Real and Virtual Spaces -- Transfer of Spatial Knowledge from Virtual to Real Environments -- Coarse Qualitative Descriptions in Robot Navigation -- Oblique Angled Intersections and Barriers: Navigating through a Virtual Maze -- Modelling Navigational Knowledge by Route Graphs -- Using Realistic Virtual Environments in the Study of Spatial Encoding -- Navigating Overlapping Virtual Worlds: Arriving in One Place and Finding that You’re Somewhere Else -- Spatial Memory -- Influences of Context on Memory for Routes -- Preparing a Cup of Tea and Writing a Letter: Do Script-Based Actions Influence the Representation of a Real Environment? -- Action Related Determinants of Spatial Coding in Perception and Memory -- Investigation of Age and Sex Effects in Spatial Cognitions as Assessed in a Locomotor Maze and in a 2-D Computer Maze.