

# 《Spatial Cognition IV》

## 图书基本信息

书名：《Spatial Cognition IV, Reasoning, Action, Interaction空间认知IV》

13位ISBN编号：9783540250487

10位ISBN编号：3540250484

出版时间：2005-8

出版社：北京燕山出版社

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页数：516

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## 内容概要

This book constitutes the thoroughly refereed postproceedings of the International Conference on Spatial Cognition 2004 held in Fauenchiemsee, Germany in October 2004. The 27 revised full papers presented were carefully reviewed and selected from 50 submissions. The papers are organized in topical sections on route directions, wayfinding, and spatial behaviour; description of space, prepositions and reference; meta-models, diagrams, and maps; spatial-temporal representation and reasoning; and robot mapping and piloting.

## 书籍目录

Route Directions, Wayfinding, and Spatial Behavior Finding the Way Inside: Linking Architectural Design Analysis and Cognitive Processes Modelling Wayfinding in Public Transport: Network Space and Scene Space Isovists as a Means to Predict Spatial Experience and Behavior A Model for Context-Specific Route Directions Investigation of Preference Between the Least-Angle Strategy and the Initial Segment Strategy for Route Selection in Unknown Environments Descriptions of Space - Prepositions and Reference Spatial Prepositions and Vague Quantifiers: Implementing the Functional Geometric Framework Reference Frame Conflict in Assigning Direction to Space Identifying Objects on the Basis of Spatial Contrast: An Empirical Study Cultural Differences of Spatial Descriptions in Tourist Guidebooks Mental Models, Diagrams, and Maps Reasoning About Consistency with Spatial Mental Models: Hidden and Obvious Indeterminacy in Spatial Descriptions Spatial Principles in Control of Focus in Reasoning with Mental Representations, Images, and Diagrams Perceptually Induced Distortions in Cognitive Maps Characterizing Diagrams Produced by Individuals and Dyads Sketch Map Analysis Using GIS Buffer Operation Imagined Perspective-Changing Within and Across Novel Environments Thinking Through Diagrams: Discovery in Game Playing Spatio-Temporal Representation and Reasoning The Finest of Its Class: The Natural Point-Based Ternary Calculus/2~ for Qualitative Spatial Reasoning Exploiting Qualitative Spatial Neighborhoods in the Situation Calculus Branching Allen -- Reasoning with Intervals in Branching Time SNAPVis and SPANVis: Ontologies for Recognizing Variable Vista Spatial Environments Modelling Models of Robot Navigation Using Formal Spatial Ontology Specification of an Ontology for Route Graphs Robot Mapping and Piloting Autonomous Construction of Hierarchical Voronoi-Based Route Graph Representations..... Author Index

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