

<<图解表示与推理>>

图书基本信息

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内容概要

This book constitutes the refereed proceedings of the 4th International Conference on Theory and Application of Diagrams, Diagrams 2006, held in Stanford, CA, USA in June 2006. The 13 revised full papers, 9 revised short papers, and 12 extended abstracts presented together with 2 keynote papers and 2 tutorial papers were carefully reviewed and selected from about 80 submissions. The papers are organized in topical sections on diagram comprehension by humans and machines, notations: history, design and formalization, diagrams and education, reasoning with diagrams by humans and machines, as well as psychological issues in comprehension, production and communication.

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书籍目录

Keynote Presentations The importance of Both Diagrammatic Conventions and Domain-Specific Knowledge for Diagram Literacy in Science: The Hierarchy as an Illustrative Case Learning by Producing DiagramsTutorials Eye Fixations and Diagrammatic Reasoning Cross-Cultural User-Experience DesignDiagram Comprehension by Humans and Machines Communicative Signals as the Key to Automated Understanding of Simple Bar Charts On Line Elaboration of a Mental Model During the Understanding of an Animation From Diagrams to Models by Analogical TransferNotations: History Design and Formalization The Mathematics of Boundaries: A Beginning Syntactic Variety in Boundary Logic Fixing Shin's Reading Algorithm for Peirce's Existential Graphs Canonical Correlation Analysis Representing Multiple Patterns Use of Composite Heliographs for Modularity and Composition in Propositional Statecharts Objects and Spaces: The Visual Language of Graphics Defining Euler Diagrams: Simple or What'? Topological Relations of Arrow Symbols in Complex Diagrams Extended Abstract of Euclid and His Twentieth Century Rivals Diagrams in the Logic of Euclidean Geometry Flow Diagrams: Rise and Fall of the First Software Engineering Notation Reasoning by Intervals Generalizing SpidersDiagrams and Education Diagrams in Second or Foreign Language Learning?? Evaluation of ERST An External Representation Selection Tutor Changing Perceptions of Animated DiagramsPsychological Issues in Comprehension,Production and CommunicationAuthor Index

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