1. Record Nr. UNISA996465747403316

Titolo	Diagrammatic Representation and Inference [[electronic resource]] : 4th International Conference, Diagrams 2006, Stanford, CA, USA, June 28-30, 2006, Proceedings / / edited by Dave Barker-Plummer, Richard Cox, Nik Swoboda
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2006
ISBN	3-540-35624-X
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (XII, 304 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 4045
Disciplina	006.6
Soggetti	Application software Artificial intelligence Computer programming Computer science—Mathematics User interfaces (Computer systems) Computer Applications Artificial Intelligence Programming Techniques Discrete Mathematics in Computer Science User Interfaces and Human Computer Interaction Computer Appl. in Social and Behavioral Sciences
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 and index.
Nota di contenuto	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 Diagrams -- Tutorials -- Eye Fixations and Diagrammatic Reasoning -- Cross-Cultural User-Experience Design -- Diagram 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 Transfer -- Notations: 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: Use of Composite Heliographs for Representing Multiple Patterns -- 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 Spiders -- Diagrams and Education -- Diagrams in Second or Foreign Language Learning??! -- Evaluation of ERST – An External Representation Selection Tutor -- Changing Perceptions of Animated Diagrams -- The Visual and Verbal as Modes to Express Understanding of the Human Body -- Interpreting Hierarchical Structure: Evidence from Cladograms in Biology -- Active Comparison as a Means of Promoting the Development of Abstract Conditional Knowledge and Appropriate Choice of Diagrams in Math Word Problem Solving -- Reasoning with Diagrams by Humans and Machines -- Synthesizing Visual and Action Routines Using Constraint Programming -- Deduction with Euler Circles: Diagrams That Hurt -- Diagrams as Physical Models -- Visual Creative Design with the Assistance of Curious Agents -- The Logic of Geometric Proof -- Exploring the Effect of Animation and Progressive Revealing on Diagrammatic Problem Solving -- Psychological Issues in Comprehension, Production and Communication -- Visual Focus in Computer-Assisted Diagrammatic Reasoning -- Perceiving Relationships: A Physiological Examination of the Perception of Scatterplots -- Using Research Diagrams for Member Validation in Qualitative Research -- Androcentric Preferences for Visuospatial Representations of Gender Differences -- Exploring the Notion of 'Clutter' in Euler Diagrams -- Using Channel Theory to Account for Graphical Meaning Generations -- Toward a Comprehensive Model of Graph Comprehension: Making the Case for Spatial Cognition -- Active Comparison as a Means of Promoting the Development of Abstract Conditional Knowledge and Appropriate Choice of Diagrams in Math Word Problem Solving -- Psychological Issues in Comprehension, Production and Communication.