Record Nr.	UNINA9910144205703321
Titolo	Diagrammatic Representation and Inference : Third International Conference, Diagrams 2004, Cambridge, UK, March 22-24, 2004, Proceedings / / edited by Alan Blackwell, Kim Marriott, Atsushi Shimojima
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
ISBN	1-280-30801-X 9786610308019 3-540-25931-7
Edizione	[1st ed. 2004.]
Descrizione fisica	1 online resource (XVI, 456 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 2980
Disciplina	006.6
Soggetti	Application software Computer science Computer Applications Computer Science, general
Lingua di pubblicazione	Inglese
Lingua di pubblicazione Formato	Inglese Materiale a stampa
Lingua di pubblicazione Formato Livello bibliografico	Inglese Materiale a stampa Monografia
Lingua di pubblicazione Formato Livello bibliografico Note generali	Inglese Materiale a stampa Monografia Bibliographic Level Mode of Issuance: Monograph
Lingua di pubblicazione Formato Livello bibliografico Note generali Nota di bibliografia	Inglese Materiale a stampa Monografia Bibliographic Level Mode of Issuance: Monograph Includes bibliographical references at the end of each chapters and index.

1.

	Model Transformation and Its Validation Using ATOM3 and AGG Inter-diagrammatic Reasoning and Digital Geometry A Prototype Inference Engine for Rule-Based Geometric Reasoning Automatic Proofs for Scalecharts Diagram Schemas: What, Why, How Roles of Diagrammatic Information for the Discovery of Geometrical Theorems Interpreting Imprecise Diagrams Why Diagrams Are (Sometimes) Six Times Easier than Words: Benefits beyond Locational Indexing Incorporating Perceptual Task Effort into the Recognition of Intention in Information Graphics Individual Differences in Graphical Reasoning Co-ordinating Conventions in Graphical Dialogue: Effects of Repetition and Interaction Predictors of Success in Diagrammatic Problem Solving Speech and Graphical Interaction in Multimodal Communication Generating New Research Hypotheses from a Result Diagram of Qualitative Research Interpreting Lines in Graphs: Do Graph Users Construe Fictive Motion? Learning with Diagrams: Effects on Inferences and the Integration of Information Making TRACS: The Diagrammatic Design of a Double-Sided Deck A Cognitive Processing Perspective on Student Programmers' Graphicacy' Using Graphics to Communicate Across Cultures The Effect of Knowledge-of-External-Representations upon Performance and Representational Choice in a Database Query Task User-Controllable Animated Diagrams: The Solution for Learning Dynamic Content? Processing Animation: Integrating Information from Animated Diagrams A Training Program to be Perceptually Sensitive and Conceptually Productive through Meta-cognition: A Case Study Can Object (Instance) Diagrams Help First Year Students Understand Program Behaviour? Spatial Transformations in Graph Comprehension Constructing Diagrams Representing Group Motions Bar-Gain Boxes: A Colored Calculator for Picturing Posletiors Representing Rosters: Conceptual Integration Counteracts Visual Complexity Visualization Techniques for Product Change and Product Modelling
Sommario/riassunto	Although diagrammatic representations have been a feature of human communication from early history, recent advances in printing and electronic media technologyhaveintroducedincreasinglysophisticatedvisualrepresentation sinto everyday life. We need to improve our understanding of the role of diagrams and sketches in communication, cognition, creative thought, and problem-solving. These concerns have triggered a surge of interest in the study of diagrammatic notations, especially in academic disciplines dealing with cognition, computation, and communication. We believe that the study of diagrammatic

communication is best pursued as an interdisciplinary endeavor. The Diagrams conference series was launched to support an international research community with this common goal. After successful meetings in Edinburgh (2000) and Georgia (2002), Diagrams 2004 was the third event in the series. The Diagrams series attracts a large number of researchers from virtually all academic fields who are studying the nature of diagrammatic representations, their use in human communication, and cognitive or computationalmechanismsforprocessingdiagrams. Bycombiningseveralearlier workshop and symposium series that were

held in the US and Europe – Reasoning with Diagrammatic Representations (DR), US; Thinking with Diagrams (TWD), Europe; and Theory of Visual Languages (TVL), Europe – Diagrams has emerged as a major international conference on this topic.