

1. Record Nr.	UNISA996466425803316
Titolo	Diagrammatic Representation and Inference [[electronic resource] ] : 6th International Conference, Diagrams 2010, Portland, OR, USA, August 9-11, 2010, Proceedings // edited by Ashok K Goel, Mateja Jamnik, N Hari Narayanan
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010
ISBN	3-642-14600-7
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (XIII, 356 p. 46 illus.)
Collana	Lecture Notes in Artificial Intelligence ; ; 6170
Disciplina	006.6
Soggetti	User interfaces (Computer systems) Artificial intelligence Computer communication systems Computers and civilization Data mining Computer science—Mathematics User Interfaces and Human Computer Interaction Artificial Intelligence Computer Communication Networks Computers and Society Data Mining and Knowledge Discovery Discrete Mathematics in Computer Science
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	Invited Talks -- Diagrams in the Mind: Visual or Spatial? -- Understanding Diagrams, and More: The Computer's View -- Tutorials -- Diagrams: A Perspective from Logic -- Drawing Euler Diagrams for Information Visualization -- Graduate Student Symposium -- The Graduate Student Symposium of Diagrams 2010 -- Euler and Venn Diagrams -- The Efficacy of Euler and Venn Diagrams in Deductive Reasoning: Empirical Findings -- Drawing Euler Diagrams with Circles -- Coloured Euler Diagrams: A Tool for Visualizing Dynamic Systems

and Structured Information -- Drawing Area-Proportional Venn-3 Diagrams with Convex Polygons -- Formal Aspects of Diagrams -- Fragments of Spider Diagrams of Order and Their Relative Expressiveness -- A Calculus for Graphs with Complement -- Two Types of Diagrammatic Inference Systems: Natural Deduction Style and Resolution Style -- Reasoning with Diagrams -- Alternative Strategies for Spatial Reasoning with Diagrams -- Relating Two Image-Based Diagrammatic Reasoning Architectures -- A Spatial Search Framework for Executing Perceptions and Actions in Diagrammatic Reasoning -- Toward a Physics of Equations -- Interacting with Diagrams -- Usability of Accessible Bar Charts -- Diagram Editing on Interactive Displays Using Multi-touch and Pen Gestures -- Constructing Diagrams -- The Effects of Perception of Efficacy and Diagram Construction Skills on Students' Spontaneous Use of Diagrams When Solving Math Word Problems -- Hi-tree Layout Using Quadratic Programming -- Understanding Diagrams and Text -- Recognizing the Intended Message of Line Graphs -- Mapping Descriptive Models of Graph Comprehension into Requirements for a Computational Architecture: Need for Supporting Imagery Operations -- Getting a Clue: Gist Extraction from Scenes and Causal Systems -- Attention Direction in Static and Animated Diagrams -- Tactile Diagrams: Worth Ten Thousand Words? -- The Effects of Signals on Learning from Text and Diagrams: How Looking at Diagrams Earlier and More Frequently Improves Understanding -- An Attention Based Theory to Explore Affordances of Textual and Diagrammatic Proofs -- Posters -- Effects of Graph Type in the Comprehension of Cyclic Events -- VCL, a Visual Language for Modelling Software Systems Formally -- Visualizing Student Game Design Project Similarities -- Are Pixel Graphs Better at Representing Information than Pie Graphs? -- Thinking with Words and Sketches -- Analyzing Multi-modal Design Transcripts Along Verbal and Diagrammatic Data -- How Diagram Interaction Supports Learning: Evidence from Think Alouds during Intelligent Tutoring -- Creating a Second Order Diagrammatic Logic -- An Attention Based Theory to Explore the Cognitive Affordances of Diagrams Relative to Text -- How Does Text Affect the Processing of Diagrams in Multimedia Learning? -- An Experiment to Evaluate Constraint Diagrams with Novice Users -- "Graph-as-Picture" Misconceptions in Young Students -- What Students Include in Hand-Drawn Diagrams to Explain Seasonal Temperature Variation -- Diagrammatic Specification of Mobile Real-Time Systems -- Manipulatable Models for Investigating Processing of Dynamic Diagrams -- Can Text Content Influence the Effectiveness of Diagrams? -- Attending to and Maintaining Hierarchical Objects in Graphics Comprehension -- Modelling English Spatial Preposition Detectors -- Diagram Interpretation and e-Learning Systems -- An Examination of Cleveland and McGill's Hierarchy of Graphical Elements -- Does Manipulating Molecular Models Promote Representation Translation of Diagrams in Chemistry? -- Heterogeneous Reasoning in Real Arithmetic -- "The Molecules are Inside the Atoms": Students' Personal External Representations of Matter -- Discovering Perceptions of Personal Social Networks through Diagrams.

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## Sommario/riassunto

The 6th International Conference on the Theory and Application of Diagrams – Diagrams 2010 – was held in Portland, USA in August 2010. Diagrams is an international and interdisciplinary conference series, which continues to present the very best work in all aspects of research on the theory and application of diagrams. Some key questions that researchers are tackling concern gaining an insight into how diagrams are used, how they are represented, which types are available and when it is appropriate to use them. The use of diagrammatic notations is

studied for a variety of purposes including communication, cognition, creative thought, computation and problem-solving. Clearly, this must be pursued as an interdisciplinary endeavor, and Diagrams is the only conference series that provides such a united forum for all areas that are concerned with the study of diagrams: for example, architecture, artificial intelligence, cartography, cognitive science, computer science, education, graphic design, history of science, human-computer interaction, linguistics, logic, mathematics, philosophy, psychology, and software modelling. The articles in this volume reflect this variety and interdisciplinarity of the field.

2. Record Nr.	UNINA9910707967703321
Autore	Jones Denise R.
Titolo	Airport traffic conflict detection and resolution algorithm evaluation // Denise R. Jones [and six others]
Pubbl/distr/stampa	Hampton, Virginia : , : National Aeronautics and Space Administration, Langley Research Center, , August 2016
Descrizione fisica	1 online resource (iii, 181 pages) : color illustrations
Collana	NASA/TP ; ; 2016-219334
Soggetti	Algorithms Collision avoidance Flight crews Runway incursions Situational awareness
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"August 2016." "Performing organization: NASA Langley Research Center"--Report documentation page.
Nota di bibliografia	Includes bibliographical references (pages 167-168).