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Nota di contenuto	Octilinear Force-Directed Layout with Mental Map Preservation for Schematic Diagrams -- Counting Crossings for Layered Hypergraphs -- Evolutionary Meta Layout of Graphs -- Seeing Around Corners: Fast Orthogonal Connector Routing -- Tennis Plots: Game, Set, and Match -- Coloured Modelling Spider Diagrams -- Graphical Representations of Context-Free Languages -- An Example Hyper Venn Proof -- Visualizing Concepts with Euler Diagrams -- Argument Mapping for Mathematics in Proof scape -- Towards a General Diagrammatic

Literacy: An Approach to Thinking Critically about Diagrams -- Item Differential in Computer Based and Paper Based Versions of a High Stakes Tertiary Entrance Test: Diagrams and the Problem of Annotation -- Students' Spontaneous Use of Diagrams in Written Communication Understanding Variations According to Purpose and Cognitive Cost Entailed -- How Communicative Learning Situations Influence Students' Use of Diagrams: Focusing on Spontaneous Diagram Construction and Protocols during Explanation -- Evaluating the Impact of Clutter in Euler Diagrams -- The Impact of Shape on the Perception of Euler Diagrams -- Alternative Strategies in Processing 3D Objects Diagrams: Static, Animated and Interactive Presentation of a Mental Rotation Test in an Eye Movements Cued Retrospective Study -- Visualizing Sets: An Empirical Comparison of Diagram Types -- Recognising, Knowing and Naming: Can Object Picture Processing Models Accommodate Non-Picture Visuals? -- Exploring the Effects of Colouring Graph Diagrams on People of Various Backgrounds -- An Empirical Study of Diagrammatic Inference Process by Recording the Moving Operation of Diagrams -- Neural Mechanisms of Global Reading -- The Relationship between Aristotelian and Hasse Diagrams -- A Graphical Representation of Boolean Logic -- The Barwise-Seligman Model of Representation Systems: A Philosophical Explication -- Logical and Geometrical Complementarities between Aristotelian Diagrams -- Logical Investigation of Reasoning with Tables -- A Framework for Heterogeneous Reasoning in Formal and Informal Domains -- The Second Venn Diagrammatic System -- Diagrammatically Explaining Peircean Abduction.

Sommario/riassunto

This book constitutes the refereed proceedings of the 8th International Conference on the Theory and Application of Diagrams, Diagrams 2014, held in Melbourne, VIC, Australia in July/August 2014. The 15 revised full papers and 9 short papers presented together with 6 posters were carefully reviewed and selected from 40 submissions. The papers have been organized in the following topical sections: diagram layout, diagram notations, diagramming tools, diagrams in education, empirical studies and logic and diagrams.
