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Soggetti	Conceptual structures (Information theory) Graph theory Logic diagrams Knowledge representation (Information theory) Natural language processing (Computer science)
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	The Many Facets of Conceptual Structures -- Conceptual Contents as Information -- Basics for Contextual Judgment Logic -- Analogical Reasoning -- Hegel in a Strange Costume -- Different Kinds of Comparisons between Fuzzy Conceptual Graphs -- Intensional Formalization of Conceptual Structures -- Hypotheses and Version Spaces -- Logical and Linguistic Aspects -- Description Logics for Ontologies -- Computing the Least Common Subsumer in the Description Logic w.r.t. Terminological Cycles with Descriptive Semantics -- Creation and Merging of Ontology Top-Levels -- Dynamic Type Creation in Metaphor Interpretation and Analogical Reasoning: A Case-Study with WordNet -- Correction and Extension of WordNet 1.7 -- Conceptual Representations of Time and Space -- Representing Temporal Ontology in Conceptual Graphs -- Time Dimension, Objects, and Life Tracks. A Conceptual Analysis -- Representing Time and Modality in Narratives with Conceptual Graphs -- Modeling and Representing Structures for Analyzing Spatial Organization in Agronomy -- Deepening the Formal Theory -- Simple Conceptual

Graphs Revisited: Hypergraphs and Conjunctive Types for Efficient Projection Algorithms -- Concept Graphs without Negations: Standard Models and Standard Graphs -- Distributed Systems with Simple Concept Graphs -- Concept Graphs with Subdivision: A Semantic Approach -- A Generic Scheme for the Design of Efficient On-Line Algorithms for Lattices -- Applications of Conceptual Structures -- Towards Building Active Knowledge Systems with Conceptual Graphs -- Formalizing Botanical Taxonomies -- Conceptual Graphs Self-tutoring System -- Cognitive Map of Conceptual Graphs: A Graphical Model to Help for Decision -- Mining Concise Representations of Frequent Multidimensional Patterns -- Sesei: A CG-Based Filter for Internet Search Engines -- A Semantic Search Approach by Graph Matching with Negations and Inferences -- Using Conceptual Graphs to Capture Semantics of Agent Communication.

Sommario/riassunto

This volume contains the proceedings of ICCS 2003, the 11th International Conference on Conceptual Structures. This conference series continues to be the main forum for the presentation and discussion of state-of-the-art research on conceptual structures. The theories, methodologies, and techniques presented here have grown considerably in scope in recent years. On the other hand, solid bridges spanning the boundaries between such diverse fields as Conceptual Graphs, Formal Concept Analysis, and others are increasingly being built in our community. The theme of this year's conference was "Conceptual Structures for Knowledge Creation and Communication". In our increasingly (Inter)networked world, the potential support of information technology for the creation and communication of quality knowledge is almost boundless. However, in reality, many conceptual barriers prevent the use of this potential. The main problem is no longer in the technological infrastructure, but in how to navigate, use, and manage the wealth of available data resources. Thus, the question is: how to create and communicate from data the information and ultimately the knowledge required by an ever more complex and dynamic society? Conceptual structures research focuses on what is behind and between the data glut and the information overload that need to be overcome in answering this question. In this way, our field contributes important ideas on how to actually realize some of the many still ambitious visions. All regular papers were reviewed in a thorough and open process by at least two reviewers and one editor.
