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Collana	Lecture Notes in Artificial Intelligence ; ; 7880
Disciplina	004.0151
Soggetti	Artificial intelligence Data mining Mathematical logic Software engineering Algebra Ordered algebraic structures Artificial Intelligence Data Mining and Knowledge Discovery Mathematical Logic and Formal Languages Software Engineering Order, Lattices, Ordered Algebraic Structures
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Nota di contenuto	Contextual Implications between Attributes and Some Representation Properties for Finite Lattices -- Mathematical Morphology Operators over Concept Lattices -- Dismantlable Lattices in the Mirror -- Towards an Error-Tolerant Construction of EL-Ontologies from Data Using Formal Concept Analysis -- Using Pattern Structures for Analyzing Ontology-Based Annotations of Biomedical Data -- Formal Concept Analysis via Atomic Priming -- Applications of Ordinal Factor Analysis -- Tri-ordinal Factor Analysis -- Formal F-contexts and Their Induced Implication Rule Systems -- User-Friendly Fuzzy FCA -- Proper Mergings of Stars and Chains Are Counted by Sums of Antidiagonals in Certain Convolution Arrays -- Modeling Ceteris Paribus Preferences in

Formal Concept Analysis -- Concept-Forming Operators on Multilattices -- Using FCA to Analyse How Students Learn to Program -- Soundness and Completeness of Relational Concept Analysis -- Contextual Uniformities -- Fitting Pattern Structures to Knowledge Discovery in Big Data.

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Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Conference on Formal Concept Analysis, ICFCA 2013, held in Dresden, Germany, in May 2013. The 15 regular papers presented in this volume were carefully reviewed and selected from 46 submissions. The papers present current research from a thriving theoretical community and a rapidly expanding range of applications in information and knowledge processing including data visualization and analysis (mining), knowledge management, as well as Web semantics, and software engineering. In addition the book contains a reprint of the first publication in english describing the seminal stem-base construction by Guigues and Duquenne; and a position paper pointing out potential future applications of FCA.

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