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   Soggetti Artificial intelligence
   Database management
   Data mining
   Mathematical logic
   Application software
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   Mathematical Logic and Formal Languages
   Computer Appl. in Administrative Data Processing
   Numeric Computing

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   Nota di bibliografia Includes bibliographical references and index.

   Nota di contenuto Invited papers -- Elements about Hybrid, Exploratory, and Explainable Knowledge Discovery -- Too Much Information: Can AI Cope With Modern Knowledge Graphs -- Learning Implications from Data and from Queries -- Concepts in Application Context -- Theory -- Direct and Binary Direct Bases for One-set Updates of a Closure System -- Dualization in lattices given by implicational bases -- Properties of Finite Lattices -- Joining Implications in Formal Contexts and Inductive Learning in a Horn Description Logic -- Methods and Applications -- On-demand Relational Concept Analysis -- Mining Formal Concepts

using Implications between Items -- Effects of Input Data Formalisation in Relational Concept Analysis for a Data Model with a Ternary Relation -- Parallelization of the GreConD Algorithm for Boolean Matrix Factorization -- Simultaneous, polynomial-time layout of Context Bigraph and Lattice Digraph -- Using Redescriptions and Formal Concept Analysis for Mining Definitions in Linked Data -- Enhanced FCA -- A Formal Context for Closures of Acyclic Hypergraphs -- Concept lattices as a search space for graph compression -- A relational extension of Galois Connections -- Short Papers -- Sampling Representation Contexts with Attribute Exploration -- Discovering Implicational Knowledge in Wikidata -- A characterization theorem for continuous lattices by closure spaces -- On Coupling FCA and MDL in Pattern Mining -- A Study of Boolean Matrix Factorization Under Supervised Settings.

Sommario/riassunto	This book constitutes the proceedings of the 15th International Conference on Formal Concept Analysis, ICFCA 2019, held in Frankfurt am Main, Germany, in June 2019. The 15 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 36 submissions. The book also contains four invited contributions in full paper length. The field of Formal Concept Analysis (FCA) originated in the 1980s in Darmstadt as a subfield of mathematical order theory, with prior developments in other research groups. Its original motivation was to consider complete lattices as lattices of concepts, drawing motivation from philosophy and mathematics alike. FCA has since then developed into a wide research area with applications much beyond its original motivation, for example in logic, data mining, learning, and psychology.