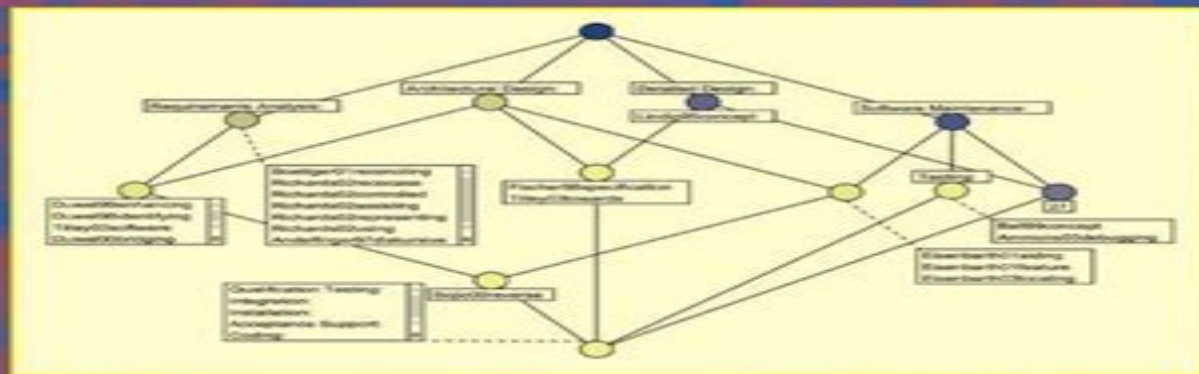


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Gerd Stumme
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Formal Concept Analysis

Foundations and Applications



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Chu-ren Huang



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Formal Concept Analysis Bernhard Ganter, Rudolf Wille, 2024-07-30 Formal Concept Analysis is a field of applied mathematics based on the mathematization of concept and conceptual hierarchy. It thereby activates mathematical thinking for conceptual data analysis and knowledge processing. The underlying notion of concept evolved early in the philosophical theory of concepts and still has effects today. In mathematics, it played a special role during the emergence of mathematical logic in the 19th century. Subsequently, however, it had virtually no impact on mathematical thinking. It was not until 1979 that the topic was revisited and treated more thoroughly. Since then, Formal Concept Analysis has fully emerged, sparking a multitude of publications for which the first edition of this textbook established itself as the standard reference in the literature with a total of 10000 citations. This is the second edition, revised and extended of the textbook published originally in German 1996 and translated into English 1999, giving a systematic presentation of the mathematical foundations while also focusing on their possible applications for data analysis and knowledge processing. In times of digital knowledge processing, formal methods of conceptual analysis are gaining in importance. The book makes the basic theory for such methods accessible in a compact form and presents graphical methods for representing concept systems that have proved themselves essential in communicating knowledge. The textbook complements each chapter with further notes, references, and trends, putting the work in modern context and highlighting potential directions for further research. Additionally, the book contains an entirely

new chapter on contextual concept logic including a section on description logics and relational concept analysis As such it should be a valuable resource for students instructors and researchers at the crossroads of subject areas like Applied and Discrete Mathematics Logics Theoretical Computer Science Knowledge Processing Data Science and is meant to be used both for research and in class as a teaching resource

Formal Concept Analysis Léonard Kwuida,Baris

Sertkaya,2010-04-07 This volume contains selected papers presented at ICFCA 2010 the 8th Int national Conference on Formal Concept Analysis The ICFCA conference series aims to be the prime forum for dissemination of advances in applied lattice and order theory and in particular advances in theory and applications of Formal Concept Analysis Formal Concept Analysis FCA is a eld of applied mathematics with its mathematical root in order theory in particular the theory of complete lattices Researchers had long been aware of the fact that these elds have many potential applications FCA emerged in the 1980s from order structure lattice theory to promote better communication between lattice theorists and potential users of lattice theory The key theme was the mathematical formalization of concept and conceptual hierarchy Since then the eld has developed into a growing research area in its own right with a thriving theoretical community and an increasing number of applications in data and knowledge processing including data visualization information retrieval machine learning software engineering data analysis data mining in Web 2.0 analysis of social networks concept graphs contextual logic and description logics ICFCA 2010 took place during March 15-18 2010 in Agadir Morocco We received 37 high quality submissions out of which 17 were chosen as regular papers in these proceedings after a competitive selection process Less mature works that were still considered valuable for discussion at the conference were collected in the supplementary proceedings The papers in the present volume cover advances in various aspects of FCA ranging from its theoretical foundations to its applications in numerous other elds In addition to the regular papers

this volume also contains four keynote papers arising from these seven invited talks given at the conference We are also delighted to include a reprint of Bernhard Ganter's seminal paper on his well known algorithm for enumerating closed sets

The Correctness-by-Construction Approach to Programming Derrick G. Kourie, Bruce W. Watson, 2012-04-12 The focus of this book is on bridging the gap between two extreme methods for developing software On the one hand there are texts and approaches that are so formal that they scare off all but the most dedicated theoretical computer scientists On the other there are some who believe that any measure of formality is a waste of time resulting in software that is developed by following gut feelings and intuitions Kourie and Watson advocate an approach known as correctness by construction a technique to derive algorithms that relies on formal theory but that requires such theory to be deployed in a very systematic and pragmatic way First they provide the key theoretical background like first order predicate logic or refinement laws that is needed to understand and apply the method They then detail a series of graded examples ranging from binary search to lattice cover graph construction and finite automata minimization in order to show how it can be applied to increasingly

complex algorithmic problems The principal purpose of this book is to change the way software developers approach their task at programming in the small level with a view to improving code quality Thus it coheres with both the IEEE s Guide to the Software Engineering Body of Knowledge SWEBOK recommendations which identifies themes covered in this book as part of the software engineer s arsenal of tools and methods and with the goals of the Software Engineering Method and Theory SEMAT initiative which aims to refound software engineering based on a solid theory

Computational Science and Its Applications - ICCSA 2016 Osvaldo Gervasi,Beniamino Murgante, Sanjay Misra, Ana Maria A.C. Rocha, Carmelo M. Torre, David Taniar, Bernady O. Apduhan, Elena Stankova, Shangguang Wang, 2016-06-30 The five volume set LNCS 9786 9790 constitutes the refereed proceedings of the 16th International Conference on Computational Science and Its Applications ICCSA 2016 held in Beijing China in July 2016 The 239 revised full papers and 14 short papers presented at 33 workshops were carefully reviewed and selected from 849 submissions They are organized in five thematical tracks computational methods algorithms and scientific applications high performance computing and networks geometric modeling graphics and visualization advanced and emerging applications and information systems and technologies

Theories of Geographic Concepts Marinos Kavouras, Margarita Kokla, 2007-12-20 Most widely available approaches to semantic integration provide ad hoc non systematic subjective manual mappings that lead to procrustean amalgamations to fit the target standard an outcome that pleases no one Written by experts in the field Theories of Geographic Concepts Ontological Approaches to Semantic Integration emphasizes the

Towards Mechanized Mathematical Assistants Manuel Kauers, Manfred Kerber, Robert Miner, Wolfgang Windsteiger, 2007-08-15 This book constitutes the refereed proceedings of the 6th International Conference on Mathematical Knowledge Management MKM 2007 and the 14th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning Calculemus 2006 held in Hagenberg Austria in June 2007 as events of the RISC Summer 2007 organized by the Research Institute for Symbolic Computation

Towards Digital Intelligence Society Ján Paralič, Peter Sinčák, Pitoyo Hartono, Vladimír Mařík, 2020-12-21 This book aims to provide readers with up to date knowledge on how to make these technologies smarter Humanity is now going through difficult times to fight the Covid 19 pandemic Simultaneously in these difficult times of physical separation we can also realize how much digital society technology helps us cope with many difficulties that bring us this time The authors focus on selected research challenges for intelligent digital society and state of the art methods of how to face them The book s subtitle suggests that a core concept that the reader can study from various points of view in particular book chapters is the knowledge The knowledge that can help us intelligently face different digital society challenges Part I of this book the knowledge extracted from available big data employing intelligent analysis techniques Part II For efficient processing and analysis of data there is a strong need for smart data and information modeling techniques Part III

Data-Intensive Science Terence Critchlow, Kerstin Kleese van Dam, 2016-04-19 Data intensive science has the potential to transform scientific research and quickly translate scientific

progress into complete solutions policies and economic success But this collaborative science is still lacking the effective access and exchange of knowledge among scientists researchers and policy makers across a range of disciplines Bringing together leaders from multiple scientific disciplines Data Intensive Science shows how a comprehensive integration of various techniques and technological advances can effectively harness the vast amount of data being generated and significantly accelerate scientific progress to address some of the world s most challenging problems In the book a diverse cross section of application computer and data scientists explores the impact of data intensive science on current research and describes emerging technologies that will enable future scientific breakthroughs The book identifies best practices used to tackle challenges facing data intensive science as well as gaps in these approaches It also focuses on the integration of data intensive science into standard research practice explaining how components in the data intensive science environment need to work together to provide the necessary infrastructure for community scale scientific collaborations Organizing the material based on a high level data intensive science workflow this book provides an understanding of the scientific problems that would benefit from collaborative research the current capabilities of data intensive science and the solutions to enable the next round of scientific advancements

Conceptual Structures for Discovering Knowledge Simon Andrews, Simon Polovina, Richard Hill, Babak Akhgar, 2011-07-18 This book constitutes the proceedings of the 19th International Conference on Conceptual Structures ICCS 2011 held in Derby UK in July 2011 The 18 full papers and 4 short papers presented together with 12 workshop papers were carefully reviewed and selected for inclusion in the book The volume also contains 3 invited talks ICCS focuses on the useful representation and analysis of conceptual knowledge with research and business applications It advances the theory and practice in connecting the user s conceptual approach to problem solving with the formal structures that computer applications need to bring their productivity to bear Conceptual structures CS represent a family of approaches that builds on the successes of artificial intelligence business intelligence computational linguistics conceptual modelling information and Web technologies user modelling and knowledge management Two of the workshops contained in this volume cover CS and knowledge discovery in under traversed domains and in task specific information retrieval The third addresses CD in learning teaching and assessment

Encyclopedia of Business Analytics and Optimization Wang, John, 2014-02-28 As the age of Big Data emerges it becomes necessary to take the five dimensions of Big Data volume variety velocity volatility and veracity and focus these dimensions towards one critical emphasis value The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management data visualization interdisciplinary communication and others Through its critical approach and practical application this book will be a must have reference for any professional leader analyst or manager interested in making the most of the knowledge resources at their disposal

Cooperative Design, Visualization, and Engineering Yuhua Luo, 2007-09-06 This book constitutes the refereed proceedings of the 4th

International Conference on Cooperative Design Visualization and Engineering CDVE 2007 held in Shanghai China in September 2007 The papers presented were carefully reviewed from numerous submissions The papers cover all current issues in cooperative design visualization and engineering ranging from theoretical and methodological topics to various systems and frameworks to applications in a variety of fields

Formal Concept Analysis Jaume Baixeries, Christian Sacarea, Manuel Ojeda-Aciego, 2015-05-26 This book constitutes the refereed proceedings of the 13th International Conference on Formal Concept Analysis ICFCA 2015 held in Neja Spain in June 2015 The 16 revised full papers presented were carefully reviewed and selected from 38 submissions The topics in this volume cover theoretical aspects of FCA methods and applications of FCA to different fields and enhanced FCA that show new trends in FCA for instance pattern structures of fuzzy FCA

Formal Concept Analysis Petko Valtchev, Robert Jäschke, 2011-04-27 This book constitutes the refereed proceedings of the 9th International Conference on Formal Concept Analysis ICFCA 2011 held in Nicosia Cyprus in May 2011 The 16 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 49 submissions The central theme was the mathematical formalization of concept and conceptual hierarchy The field has developed into a constantly growing research area in its own right with a thriving theoretical community and an increasing number of applications in data and knowledge processing including disciplines such as data visualization information retrieval machine learning software engineering data analysis data mining social networks analysis etc

20th European Symposium of Computer Aided Process Engineering Sauro Pierucci, G. Buzzi Ferraris, 2010-06-03 ESCAPE 20 is the most recent in a series of conferences that serves as a forum for engineers scientists researchers managers and students from academia and industry to present and discuss progress being made in the area of Computer Aided Process Engineering CAPE CAPE covers computer aided methods algorithms and techniques related to process and product engineering The ESCAPE 20 scientific program reflects the strategic objectives of the CAPE Working Party to check the status of historically consolidated topics by means of their industrial application and to evaluate their emerging issues Includes a CD that contains all research papers and contributions Features a truly international scope with guest speakers and keynote talks from leaders in science and industry Presents papers covering the latest research key topical areas and developments in computer aided process engineering CAPE

Scientific Legacy Of Professor Zbigniew Oziewicz: Selected Papers From The International Conference "Applied Category Theory Graph-operad-logic" Hilda Maria Colin Garcia, Jose De Jesus Cruz Guzman, Louis H Kauffman, Hanna Makaruk, 2023-09-27 Dedicated to the memory of the late Professor Zbigniew Oziewicz from Universidad Nacional Autónoma de México the book consists of papers on a wide variety of topics related to the work of Professor Oziewicz which were presented at the special conference on Graph Operads Logic GOL 2021 selected through peer review to promote his scientific legacy Professor Oziewicz was a great enthusiast and supporter of category theory and its applications in physics as well as in various areas of mathematics topology noncommutative geometry etc In particular he made

significant contributions to the theory of Frobenius algebras which now are becoming more important due to their connection with topological quantum field theories that are used in mathematical physics and in quantum topology Professor Oziewicz was a great and very generous teacher who immersed his students in the beautiful ideas of category theory as well as mathematical physics and computation It was his idea to start a series of conferences under the title Graphs Operads Logic most of them held in Mexico with some of them in the USA which were a great platform to discuss various ideas connected with category theory and its various applications and to make friends with other scientists Despite his passing the GOL 2021 conference is included in this series to pay tribute to his many contributions to diverse areas of science The book is laid out in twelve main topics where we can find relevant works from distinguished experts Ontology and the Lexicon Chu-ren Huang,2010-04 An edited collection focusing on the technology involved in enabling integration between lexical resources and semantic technologies **Conceptual Structures in Practice** Pascal Hitzler,Henrik Scharfe,2016-04-19 Exploring fundamental research questions Conceptual Structures in Practice takes you through the basic yet nontrivial task of establishing conceptual relations as the foundation for research in knowledge representation and knowledge mining It includes contributions from leading researchers in both the conceptual graph and formal concept analysis **Polytopic Roadmaps** Octavian Iordache,2021-06-01 This book is useful to engineers researchers entrepreneurs and students in different branches of production engineering and systems sciences The polytopic roadmaps are the guidelines inspired by the development stages of cognitive intelligent systems and expected to become powerful instruments releasing an abundance of new capabilities and structures for complex engineering systems implementation The 4D approach developed in previous monographs and correlated with industry 4 0 and Fourth Industrial Revolution is continued here toward higher dimensions approaches correlated with polytopic operations equipment technologies industries and societies Methodology emphasizes the role of doubling iteration dimensionality and cyclicity around the center of periodic tables and of conservative and exploratory strategies Partitions permutations classifications and complexification as polytopic chemistry are the elementary operations analyzed Multi scale transfer cyclic operations conveyors and assembly lines are the practical examples of operations and equipment Polytopic flow sheets online analytical processing polytopic engineering designs and reality inspired engineering are presented Innovative concepts such as Industry 5 0 polytopic industry Society 5 0 polytopic society cyber physical social systems industrial Internet and digital twins have been discussed The general polytopic roadmaps GPTR are proposed as universal guidelines and as common methodologies to synthesize the systemic thinking and capabilities for growing complexity projects implementation

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