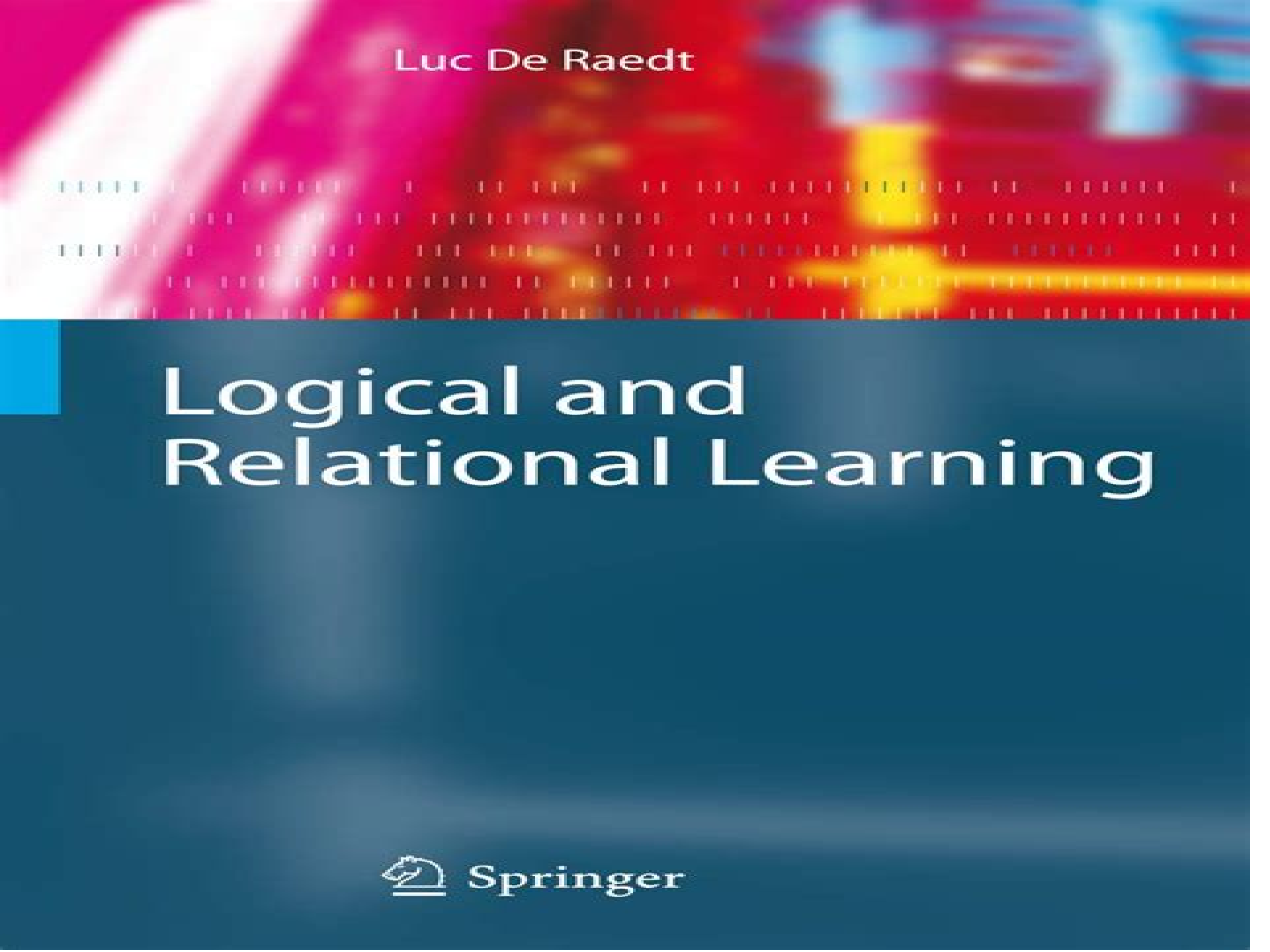
Luc De Raedt
Logical and
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Logical And Relational Learning Cognitive Technologies

Luc De Raedt

Logical And Relational Learning Cognitive Technologies:

Logical and Relational Learning Luc De Raedt,2008-09-12 This first textbook on multi relational data mining and inductive logic programming provides a complete overview of the field It is self contained and easily accessible for graduate students and practitioners of data mining and machine learning *Logical and Relational Learning* Luc De Raedt,2008-09-27 Iusethetermlogicalandrelationallearning torefertothesub eldofarti cial intelligence machinelearninganddataminingthatisconcernedwithlearning in expressive logical or relational representations It is the union of inductive logic programming statistical relational learning and multi relational data mining which all have contributed techniques for learning from data in re tional form Even though some early contributions to logical and relational learning are about forty years old now it was only with the advent of ductive logic programming in the early 1990s that the eld became popular Whereas initial work was often concerned with logical or logic programming issues thefocushasrapidlychangedtothediscoveryofnewandinterpretable knowledge from structured data often in the form of rules and soon imp tant successes in applications in domains such as bio and chemo informatics and computational linguistics were realized Today the challenges and opp tunities of dealing with structured data and knowledge have been taken up by the arti cial intelligence community at large and form the motivation for a lot of ongoing research Indeed graph network and multi relational data mining are now popular themes in data mining and statistical relational learning is receiving a lot of attention in the machine learning and uncertainty in art cial intelligence communities In addition the range of tasks for which logical and relational techniques have been developed now covers almost all machine learning and data mining tasks Inductive Logic Programming Katsumi Inoue,Hayato Ohwada,Akihiro Yamamoto,2016-06-25 This book constitutes the thoroughly refereed post conference proceedings of the 25th International Conference on Inductive Logic Programming ILP 2015 held in Kyoto Japan in August 2015 The 14 revised papers presented were carefully reviewed and selected from 44 submissions The papers focus on topics such as theories algorithms representations and languages systems and applications of ILP and cover all areas of learning in logic relational learning relational data mining statistical relational learning multi relational data mining relational reinforcement learning graph mining connections with other learning paradigms among others

Inductive Logic Programming Jesse Davis,Jan Ramon,2015-12-26 This book constitutes the thoroughly refereed post conference proceedings of the 24th International Conference on Inductive Logic Programming ILP 2014 held in Nancy France in September 2014 The 14 revised papers presented were carefully reviewed and selected from 41 submissions The papers focus on topics such as the inducing of logic programs learning from data represented with logic multi relational machine learning learning from graphs and applications of these techniques to important problems in fields like bioinformatics medicine and text mining **From Bioinspired Systems and Biomedical Applications to Machine Learning** José Manuel Ferrández Vicente,José Ramón Álvarez-Sánchez,Félix de la Paz López,Javier Toledo Moreo,Hojjat

Adeli,2019-05-09 The two volume set LNCS 11486 and 11487 constitutes the proceedings of the International Work Conference on the Interplay Between Natural and Artificial Computation IWINAC 2019 held in Almer a Spain in June 2019 The total of 103 contributions was carefully reviewed and selected from 190 submissions during two rounds of reviewing and improvement The papers are organized in two volumes one on understanding the brain function and emotions addressing topics such as new tools for analyzing neural data or detection emotional states or interfacing with physical systems The second volume deals with bioinspired systems and biomedical applications to machine learning and contains papers related bioinspired programming strategies and all the contributions oriented to the computational solutions to engineering problems in different applications domains as biomedical systems or big data solutions **Machine Learning and Knowledge Discovery in Databases** Peggy Cellier,Kurt Driessens,2020-03-27 This two volume set constitutes the refereed proceedings of the workshops which complemented the 19th Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD held in W rzburg Germany in September 2019 The 70 full papers and 46 short papers presented in the two volume set were carefully reviewed and selected from 200 submissions The two volumes CCIS 1167 and CCIS 1168 present the papers that have been accepted for the following workshops Workshop on Automating Data Science ADS 2019 Workshop on Advances in Interpretable Machine Learning and Artificial Intelligence and eXplainable Knowledge Discovery in Data Mining AIMLAI XKDD 2019 Workshop on Decentralized Machine Learning at the Edge DMLE 2019 Workshop on Advances in Managing and Mining Large Evolving Graphs LEG 2019 Workshop on Data and Machine Learning Advances with Multiple Views Workshop on New Trends in Representation Learning with Knowledge Graphs Workshop on Data Science for Social Good SoGood 2019 Workshop on Knowledge Discovery and User Modelling for Smart Cities UMCIT 2019 Workshop on Data Integration and Applications Workshop DINA 2019 Workshop on Machine Learning for Cybersecurity MLCS 2019 Workshop on Sports Analytics Machine Learning and Data Mining for Sports Analytics MLSA 2019 Workshop on Categorising Different Types of Online Harassment Languages in Social Media Workshop on IoT Stream for Data Driven Predictive Maintenance IoTStream 2019 Workshop on Machine Learning and Music MML 2019 Workshop on Large Scale Biomedical Semantic Indexing and Question Answering BioASQ 2019 The chapter Supervised Human guided Data Exploration is published open access under a Creative Commons Attribution 4 0 International license CC BY

Inductive Logic Programming Luc De Raedt,2010-07-07 This book constitutes the proceedings of the 19th International Conference on Inductive Logic Programming held in Leuven Belgium in July 2009 Perspectives on Ontology Learning J. Lehmann,J. Völker,2014-04-03 Perspectives on Ontology Learning brings together researchers and practitioners from different communities natural language processing machine learning and the semantic web in order to give an interdisciplinary overview of recent advances in ontology learning Starting with a comprehensive introduction to the theoretical foundations of ontology learning methods the edited volume presents the state of the start in automated

knowledge acquisition and maintenance It outlines future challenges in this area with a special focus on technologies suitable for pushing the boundaries beyond the creation of simple taxonomical structures as well as on problems specifically related to knowledge modeling and representation using the Web Ontology Language Perspectives on Ontology Learning is designed for researchers in the field of semantic technologies and developers of knowledge based applications It covers various aspects of ontology learning including ontology quality user interaction scalability knowledge acquisition from heterogeneous sources as well as the integration with ontology engineering methodologies *Inductive Logic Programming* Luc Raedt,2010-07-02 This book constitutes the proceedings of the 19th International Conference on Inductive Logic Programming held in Leuven Belgium in July 2009 Inductive Logic Programming Stephen Muggleton,Alireza Tamaddoni-Nezhad,Francesca A. Lisi,2012-07-20 This book constitutes the thoroughly refereed post proceedings of the 21st International Conference on Inductive Logic Programming ILP 2011 held in Windsor Great Park UK in July August 2011 The 24 revised full papers were carefully reviewed and selected from 66 submissions Also included are five extended abstracts and three invited talks The papers represent the diversity and vitality in present ILP research including ILP theory implementations probabilistic ILP biological applications sub group discovery grammatical inference relational kernels learning of Petri nets spatial learning graph based learning and learning of action models **Inductive Logic Programming** Nikos Katzouris,Alexander Artikis,2022-02-23 This book constitutes the refereed conference proceedings of the 30th International Conference on Inductive Logic Programming ILP 2021 held in October 2021 Due to COVID 19 pandemic the conference was held virtually The 16 papers and 3 short papers presented were carefully reviewed and selected from 19 submissions Inductive Logic Programming ILP is a subfield of machine learning which originally relied on logic programming as a uniform representation language for expressing examples background knowledge and hypotheses Due to its strong representation formalism based on first order logic ILP provides an excellent means for multi relational learning and data mining and more generally for learning from structured data **Computational Sustainability** Jörg Lässig,Kristian Kersting,Katharina Morik,2016-04-20 The book at hand gives an overview of the state of the art research in Computational Sustainability as well as case studies of different application scenarios This covers topics such as renewable energy supply energy storage and e mobility efficiency in data centers and networks sustainable food and water supply sustainable health industrial production and quality etc The book describes computational methods and possible application scenarios **Relations and Kleene Algebra in Computer Science** Rudolf Berghammer,Ali Jaoua,Bernhard Möller,2009-10-05 The book constitutes the joint refereed proceedings of the 11th International Conference on Relational Methods in Computer Science RelMiCS 2009 and the 6th International Conference on Applications of Kleene Algebras AKA 2009 held in Doha Qatar in November 2009 The 22 revised full papers presented together with 2 invited papers were carefully reviewed and selected from numerous submissions The papers describe the calculus of relations and similar

algebraic formalisms as methodological and conceptual tools with special focus on formal methods for software engineering logics of programs and links to neighbouring disciplines Their scope comprises relation relation algebras and Kleene algebras related formalisms such as process algebras fixed point calculi idempotent semirings quantales allegories dynamic algebras cylindric algebras and their applications in areas such as verification analysis and development of programs and algorithms relational formal methods such as B or Z tabular methods algebraic approaches to logics of programs modal and dynamic logics interval and temporal logics algebraic semantics of programming languages graph theory and combinatorial optimization games automata and language theory mechanised and automated reasoning decision procedures spatio temporal reasoning knowledge acquisition preference and scaling methods or information systems Boosted Statistical Relational Learners Sriraam Natarajan,Kristian Kersting,Tushar Khot,Jude Shavlik,2015-03-03 This SpringerBrief addresses the challenges of analyzing multi relational and noisy data by proposing several Statistical Relational Learning SRL methods These methods combine the expressiveness of first order logic and the ability of probability theory to handle uncertainty It provides an overview of the methods and the key assumptions that allow for adaptation to different models and real world applications The models are highly attractive due to their compactness and comprehensibility but learning their structure is computationally intensive To combat this problem the authors review the use of functional gradients for boosting the structure and the parameters of statistical relational models The algorithms have been applied successfully in several SRL settings and have been adapted to several real problems from Information extraction in text to medical problems Including both context and well tested applications Boosting Statistical Relational Learning from Benchmarks to Data Driven Medicine is designed for researchers and professionals in machine learning and data mining Computer engineers or students interested in statistics data management or health informatics will also find this brief a valuable resource New Frontiers in Mining Complex Patterns Annalisa Appice,Michelangelo Ceci,Corrado Loglisci,Giuseppe Manco,Elio Masciari,Zbigniew Ras,2013-03-25 This book constitutes the thoroughly refereed conference proceedings of the First International Workshop on New Frontiers in Mining Complex Patterns NFMCP 2012 held in conjunction with ECML PKDD 2012 in Bristol UK in September 2012 The 15 revised full papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on mining rich relational datasets mining complex patterns from miscellaneous data mining complex patterns from trajectory and sequence data and mining complex patterns from graphs and networks

Foundations of Rule Learning Johannes Fürnkranz,Dragan Gamberger,Nada Lavrač,2012-11-06 Rules the clearest most explored and best understood form of knowledge representation are particularly important for data mining as they offer the best tradeoff between human and machine understandability This book presents the fundamentals of rule learning as investigated in classical machine learning and modern data mining It introduces a feature based view as a unifying framework for propositional and relational rule learning thus bridging the gap between attribute value learning and inductive

logic programming and providing complete coverage of most important elements of rule learning The book can be used as a textbook for teaching machine learning as well as a comprehensive reference to research in the field of inductive rule learning As such it targets students researchers and developers of rule learning algorithms presenting the fundamental rule learning concepts in sufficient breadth and depth to enable the reader to understand develop and apply rule learning techniques to real world data *Inductive Logic Programming* Tamas Horváth,2003-09-24 This book constitutes the refereed proceedings of the 13th International Conference on Inductive Logic Programming ILP 2003 held in Szeged Hungary in September October 2003 The 23 revised full papers presented were carefully reviewed and selected from 53 submissions Among the topics addressed are multirelational data mining complexity issues theory revision clustering mathematical discovery relational reinforcement learning multirelational learning inductive inference description logics grammar systems and inductive learning **Semantic Data Mining** Agnieszka Lawrynowicz,2017-04-15 Ontologies are now increasingly used to integrate and organize data and knowledge particularly in data and knowledge intensive applications in both research and industry The book is devoted to semantic data mining a data mining approach where domain ontologies are used as background knowledge and where the new challenge is to mine knowledge encoded in domain ontologies and knowledge graphs rather than only purely empirical data The introductory chapters of the book provide theoretical foundations of both data mining and ontology representation Taking a unified perspective the book then covers several methods for semantic data mining addressing tasks such as pattern mining classification and similarity based approaches It attempts to provide state of the art answers to specific challenges and peculiarities of data mining with use of ontologies in particular How to deal with incompleteness of knowledge and the so called Open World Assumption What is a truly semantic similarity measure The book contains several chapters with examples of applications of semantic data mining The examples start from a scenario with moderate use of lightweight ontologies for knowledge graph enrichment and end with a full fledged scenario of an intelligent knowledge discovery assistant using complex domain ontologies for meta mining i e an ontology based meta learning approach to full data mining processes The book is intended for researchers in the fields of semantic technologies knowledge engineering data science and data mining and developers of knowledge based systems and applications *Inductive Logic Programming* Hendrik Blockeel,2008-03-14 This book constitutes the thoroughly refereed post conference proceedings of the 17th International Conference on Inductive Logic Programming ILP 2007 held in Corvallis OR USA in June 2007 in conjunction with ICML 2007 the International Conference on Machine Learning The 15 revised full papers and 11 revised short papers presented together with 2 invited lectures were carefully reviewed and selected from 38 initial submissions The papers present original results on all aspects of learning in logic as well as multi relational learning and data mining statistical relational learning graph and tree mining relational reinforcement learning and learning in other non propositional knowledge representation frameworks Thus all current topics in inductive logic

programming ranging from theoretical and methodological issues to advanced applications in various areas are covered

Languages, Methodologies and Development Tools for Multi-Agent Systems Mehdi Dastani,2008-07-18 This book constitutes the thoroughly refereed post workshop proceedings of the First International Workshop on Languages Methodologies and Development Tools for Multi Agent Systems LADS 2007 held in Durham UK in September 2007 The workshop was part of MALLOW 2007 a federation of workshops on Multi Agent Logics Languages and Organizations The 15 revised full papers presented together with 1 invited paper reporting the aims and achievements of the OpenKnowledge project were carefully reviewed and selected from 32 submissions The papers are organized in topical sections on agent reasoning and semantics declarative languages and technologies methodologies and design and development frameworks

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