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Proceedings of the 6th International Conference on Decision Support System Technology – ICDSST 2020 on Cognitive Decision Support Systems & Technologies
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Marketing
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Hacking Multifactor Authentication
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Learning PostgreSQL 10 - Second Edition
Parallel Processing and Applied Mathematics

HULL KIERA

Advances in Engineering Mechanics and Materials Springer
The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient

methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

From Software Engineering to Formal Methods and Tools, and Back Springer

Artificial intelligence has become an indispensible part of our lives in recent years, affecting all aspects from business and leisure to transport and health care. This book presents the proceedings of the 23rd edition of the International Conference of the Catalan Association for Artificial Intelligence (CCIA), an annual event that serves as a meeting point for researchers in Artificial Intelligence in the area of the Catalan speaking territories and from around the world. The 2021 edition was held online as a virtual conference from 20 - 22 October 2021 due to the COVID-19 pandemic. The book contains 42 long papers and 9 short papers, carefully reviewed and selected. The papers cover all aspects of artificial intelligence and are divided under six section headings: combinatorial problem solving and logics for artificial intelligence; sentiment analysis and tekst analysis; data science and decision support systems; machine learning; computer vision; and explainability and argumentation. Abstracts of the 2 invited talks delivered at the conference by Prof. Patty Kostkova and Prof. João Marques-Silva are also included. Offering a state of the art overview of the subject from a regional perspective, the book will be of interest to all those working in the field of artificial intelligence.

Encyclopaedia Metropolitana: Miscellaneous and lexicographical MIT Press

The e-book for Fitness for Life, Updated Fifth Edition allows you to highlight, take notes, and easily use all the material in the book in seconds. The e-book is delivered through Adobe Digital Editions® and when purchased through the Human Kinetics site, access to the content is immediately granted when your order is received. Fitness for Life is the original and best-selling high school text for promoting lifelong physical activity and healthy lifestyles that result in lifelong fitness, wellness, and health. Fitness for Life has been updated to make it better than ever. The updated edition retains the strengths of the fifth edition and has been enhanced with a test bank, an online study guide, and an array of other new features to keep teachers and students on the cutting edge. Fitness for Life helps students to -meet national, state, and local physical education grade-level standards; -learn about and meet national health goals for the year 2010; -become informed consumers on matters related to lifelong physical activity and fitness; -learn self-management skills that lead to adopting healthy lifestyles; -take personal responsibility for program planning and setting individualized goals; -recognize and overcome the barriers to reaching their activity and fitness goals; -use technology to promote healthy living and to separate fact from fiction; and -assess personal progress using a variety of tools, including FITNESSGRAM/ACTIVITYGRAM. The book's pedagogically sound format includes lesson objectives that are consistent with state and national health and fitness goals. The chapter and unit structure is consistent with a school-year structure and works with your schedule no matter what schedule

you're on! The following are new features in the Updated Fifth Edition: -New focus on MyPyramid and the 2005 dietary guidelines -Online study guide and test bank -Increased emphasis on diversity awareness -Wrap-around lesson plans to accompany lesson plan book and CD-ROM -And much more—request a desk copy to see! View chapter excerpt and ancillary samples at www.FitnessforLife.org! Every chapter of the fully updated student text includes the following elements: -Two lessons designed for the classroom portion of the class -Three activities designed for use in the activity portion of the class -A self-assessment that helps students to build a fitness profile to be used in program planning -A taking charge feature designed to reinforce self-management skills and concepts -A self-management skill feature that includes guidelines for learning self-management skills and reinforces taking charge -A chapter review New ancillaries beef up already comprehensive ancillaries -The teacher ancillary package includes the following: -Lesson plans in CD-ROM and book format—Daily lesson plans guide teachers in working through the material and integrating the other ancillaries. -Wrap-around lesson plans—A wrap-around set of lesson plans is available for those schools that require or prefer this format. -CD-ROM and print version of teacher resources and materials—Includes worksheets, quizzes, blackline masters, and student workbooks. These can be copied from the print version or kept safe and printed out year after year from the CD-ROM. -CD-ROM of activity and vocabulary cards—This includes 8.5- x 11-inch cards depicting activities with instructions and vocabulary cards for use in studying fitness terminology covered in the book. -CD-ROM of the presentation package—This CD-ROM includes a PowerPoint presentation for every lesson in the book, making class time easy for you and more engaging for your students. -In-service DVD—Learn the program philosophy, objectives, and teaching strategies presented by Chuck Corbin. This DVD is useful for presenting your program's objectives to parents and administrators. -Spanish e-book on CD-ROM and online Spanish vocabulary—You'll find the full text in a Spanish translation on the CD-ROM, and all vocabulary is translated to Spanish on the Web site. -FitnessforLife.org Web site—The student text uses icons throughout to direct students to the Web site for more information. Additional content updates will continue to be added to the Web site as new information on health and wellness emerges. The Web site also includes the two newest ancillaries: -Online study guide—Use as a supplement to regular coursework, as an independent study for students who are unable to attend class, or as a make-up assignment for a student who missed a class. The online study guide also allows students to create online electronic portfolios that can be used as evidence of meeting physical education outcomes and standards. Access is free to teachers and students with an adoption of 25 or more copies. -Test bank—Quickly and easily create exams from more than 500 multiple-choice, essay, and matching questions. You can easily customize the exams to meet your needs, and you can make them unique for each class period you teach. -Award-winning DVDs—Two DVDs each include five 20-minute segments that illustrate key concepts, activities, and assessments featured in the text, including the Telly Award–winning segments. -The Lifetime Fitness DVD includes Introduction to Physical Activity, Cardiovascular Fitness, Muscle Fitness, Flexibility, and Body

Composition. -The Wellness DVD includes Introduction to Wellness, Nutrition, Stress Management, the Activity Pyramid, and Planning Healthy Lifestyles. -Additional supplementary instructional materials are also available for purchase: -Physical Education Soundtracks—Two CDs contain the cadence for PACER and other fitness tests, music intervals, and music for exercise routines. -Physical Activity Pyramid Posters—Explains the FIT formula for all types of physical activities. How Fitness for Life Benefits Students -Fitness for Life helps students meet national, state, and local physical education standards and helps students achieve national health goals outlined in Healthy People 2010. -Fitness for Life is based on the HELP philosophy, which specifies the goal of promoting health for everyone with an emphasis on lifetime activity designed to meet personal needs. -Fitness for Life helps students learn the value and benefits of lifelong physical activity. Just as important, they learn that physical activity can and should be fun—and thus they are more likely to become and remain active throughout their lives. -Students learn how to create an activity and fitness plan, set individual goals, assess their status and progress, manage their time and responsibilities, and overcome barriers to regular physical activity. They learn to use technology to benefit their fitness rather than detract from it. And they experience the various components of health-related fitness, activity, and wellness through participation in the many labs and activities that are a crucial part of the Fitness for Life program. -Fitness for Life enables students to have success, build confidence in their ability to lead an active lifestyle, and take control of their own health. And research has shown that the program is effective in promoting physically active behavior after students finish school. -Fitness for Life complements the total learning process, contributing learning experiences in science, math, and language arts, including extensive vocabulary enhancement. How Fitness for Life Benefits Teachers -Teachers can present this course knowing that it is consistent with national and state standards. -Fitness for Life helps students understand lifelong fitness concepts and learn the keys to adopting and maintaining healthy behavior throughout their lives. -The program is easily adaptable to any schedule and includes block plans of all types. -The organization of the text and the comprehensive ancillaries make teaching this course as simple as possible, with a minimum of preparation time—even for those with no experience in teaching this type of course. -Workbooks and materials completed by students in the online study guide can be used in creating student portfolios that provide evidence of students' accomplishment of national, state, and local outcomes and standards. Compatibility With FITNESSGRAM®/ACTIVITYGRAM® and Physical Best Author Chuck Corbin has been a member of the FITNESSGRAM/ACTIVITYGRAM Scientific Advisory Board since its inception. The FITNESSGRAM/ACTIVITYGRAM assessments embedded in the Fitness for Life self-assessment program—as well as the book's approach to teaching health-related fitness and physical activity—are consistent with the stated philosophy of the FITNESSGRAM/ACTIVITYGRAM Scientific Advisory Board. Fitness for Life is also fully compatible with Physical Best resources; in fact, the Physical Best program offers teacher training for Fitness for Life course instructors. All three programs are based on the HELP philosophy, which promotes health for everyone with a

focus on lifetime activity of a personal nature. Dr. Corbin is recognized nationally and internationally as the leader in teaching health-related fitness and activity to middle and high school students. He wrote the first high school textbook on this subject, which has often been imitated but never equaled. Dr. Corbin has received numerous national awards in physical education and has authored, coauthored, or edited more than 70 books and videos. Fitness for Life (winner of the Texty Award of the Text and Academic Authors Association), Concepts of Physical Fitness (winner of the McGuffey Award), and Concepts of Fitness and Wellness are the most widely adopted high school and college texts in the area of fitness and wellness. Two of Dr. Corbin's video programs have earned Telly Awards for Excellence for educational videos. He is first author of the national physical activity standards for children, published by COPEC and NASPE. Adobe Digital Editions® System Requirements Windows - Microsoft® Windows® 2000 with Service Pack 4, Windows XP with Service Pack 2, or Windows Vista® (Home Basic 32-bit and Business 64-bit editions supported) -Intel® Pentium® 500MHz processor -128MB of RAM -800x600 monitor resolution Mac PowerPC -Mac OS X v10.4.10 or v10.5 -PowerPC® G4 or G5 500MHz processor -128MB of RAM Intel® -Mac OS X v10.4.10 or v10.5 -500MHz processor -128MB of RAM Supported browsers and Adobe Flash versions Windows -Microsoft Internet Explorer 6 or 7, Mozilla Firefox 2 -Adobe Flash® Player 7, 8, or 9 (Windows Vista requires Flash 9.0.28 to address a known bug) Mac -Apple Safari 2.0.4, Mozilla Firefox 2 -Adobe Flash Player 8 or 9 Supported devices -Sony® Reader PRS-505 Language versions - English -French -German

Programming in Prolog Springer

The two-volume set LNCS 10777 and 10778 constitutes revised selected papers from the 12th International Conference on Parallel Processing and Applied Mathematics, PPAM 2017, held in Lublin, Poland, in September 2017. The 49 regular papers presented in the proceedings were selected from 98 submissions. For the workshops and special sessions, that were held as integral parts of the PPAM 2017 conference, a total of 51 papers was accepted from 75 submissions. The papers were organized in topical sections named as follows: Part I: numerical algorithms and parallel scientific computing; particle methods in simulations; task-based paradigm of parallel computing; GPU computing; parallel non-numerical algorithms; performance evaluation of parallel algorithms and applications; environments and frameworks for parallel/distributed/cloud computing; applications of parallel computing; soft computing with applications; and special session on parallel matrix factorizations. Part II: workshop on models, algorithms and methodologies for hybrid parallelism in new HPC systems; workshop power and energy aspects of computations (PEAC 2017); workshop on scheduling for parallel computing (SPC 2017); workshop on language-based parallel programming models (WLPP 2017); workshop on PGAS programming; minisymposium on HPC applications in physical sciences; minisymposium on high performance computing interval methods; workshop on complex collective systems.

EURO Working Group on DSS John Wiley & Sons

The computer programming language Prolog is quickly gaining popularity throughout the world. Since Its beginnings around 1970. Prolog has been chosen by many programmers for

applications of symbolic computation. including: D relational databases D mathematical logic D abstract problem solving D understanding natural language D architectural design D symbolic equation solving D biochemical structure analysis D many areas of artificial Intelligence Until now. there has been no textbook with the aim of teaching Prolog as a practical programming language. It Is perhaps a tribute to Prolog that so many people have been motivated to learn It by referring to the necessarily concise reference manuals. a few published papers. and by the orally transmitted 'folklore' of the modern computing community. However. as Prolog is beginning to be Introduced to large numbers of undergraduate and postgraduate students. many of our colleagues have expressed a great need for a tutorial guide to learning Prolog. We hope this little book will go some way towards meeting this need. Many newcomers to Prolog find that the task of writing a Prolog program Is not like specifying an algorithm in the same way as In a conventional programming language. Instead. the Prolog programmer asks more what formal relationships and objects occur In his problem.

Web Services EWG-DSS

The authors of this monograph survey recent progress in using spectral methods including matrix and tensor decomposition techniques to learn many popular latent variable models. With careful implementation, tensor-based methods can run efficiently in practice, and in many cases they are the only algorithms with provable guarantees on running time and sample complexity. The focus is on a special type of tensor decomposition called CP decomposition, and the authors cover a wide range of algorithms to find the components of such tensor decomposition. They also discuss the usefulness of this decomposition by reviewing several probabilistic models that can be learned using such tensor methods. The second half of the monograph looks at practical applications. This includes using Tensorly, an efficient tensor algebra software package, which has a simple python interface for expressing tensor operations. It also has a flexible back-end system supporting NumPy, PyTorch, TensorFlow, and MXNet. Spectral Learning on Matrices and Tensors provides a theoretical and practical introduction to designing and deploying spectral learning on both matrices and tensors. It is of interest for all students, researchers and practitioners working on modern day machine learning problems.

Serious Games Springer

Leverage the power of PostgreSQL 10 to build powerful database and data warehousing applications.About This Book* Be introduced to the concept of relational databases and PostgreSQL, one of the fastest growing open source databases in the world* Learn client-side and server-side programming in PostgreSQL, and how to administer PostgreSQL databases* Discover tips on implementing efficient database solutions with PostgreSQL 10Who This Book Is ForIf you're interested in learning more about PostgreSQL - one of the most popular relational databases in the world, then this book is for you. Those looking to build solid database or data warehousing applications with PostgreSQL 10 will also find this book a useful resource. No prior knowledge of database programming or administration is required to get started with this book.What You Will Learn* Understand the fundamentals of relational databases, relational algebra, and data modeling* Install a PostgreSQL cluster, create a

database, and implement your data model* Create tables and views, define indexes, and implement triggers, stored procedures, and other schema objects* Use the Structured Query Language (SQL) to manipulate data in the database* Implement business logic on the server side with triggers and stored procedures using PL/pgSQL* Make use of advanced data types supported by PostgreSQL 10: Arrays, hstore, JSONB, and others* Develop OLAP database solutions using the most recent features of PostgreSQL 10* Connect your Python applications to a PostgreSQL database and work with the data efficiently* Test your database code, find bottlenecks, improve performance, and enhance the reliability of the database applicationsIn DetailPostgreSQL is one of the most popular open source databases in the world, and supports the most advanced features included in SQL standards and beyond. This book will familiarize you with the latest new features released in PostgreSQL 10, and get you up and running with building efficient PostgreSQL database solutions from scratch.We'll start with the concepts of relational databases and their core principles. Then you'll get a thorough introduction to PostgreSQL and the new features introduced in PostgreSQL 10. We'll cover the Data Definition Language (DDL) with an emphasis on PostgreSQL, and the common DDL commands supported by ANSI SQL. You'll learn to create tables, define integrity constraints, build indexes, and set up views and other schema objects.Moving on, you'll get to know the concepts of Data Manipulation Language (DML) and PostgreSQL server-side programming capabilities using PL/pgSQL. This will give you a very robust background to develop, tune, test, and troubleshoot your database application. We'll also explore the NoSQL capabilities of PostgreSQL and connect to your PostgreSQL database to manipulate data objects.By the end of this book, you'll have a thorough understanding of the basics of PostgreSQL 10 and will have the necessary skills to build efficient database solutions.Style and approachThis book is a comprehensive beginner level tutorial on PostgreSQL and introduces the features of the newest version 10, along with explanation of concepts in a very easy to understand manner. Practical tips and examples are provided at every step to ensure you are able to grasp each topic as quickly as possible.

Efficient Parallel Algorithms MIT Press

Web services represent the next generation of web-based technology. They allow new and improved ways for enterprise applications to communicate and integrate with each other and, as such, are having a profound effect on both the worlds of business and of software development.

Topics in Cryptology – CT-RSA 2019 Pearson Education

Presents information on how to analyze risks to your networks and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and network threats. Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements, including Internet security threats and measures (audit trails IP sniffing/spoofing etc.) and how to implement security policies and procedures. In addition, this book covers security and network design with respect to particular vulnerabilities and threats. It also covers risk assessment and mitigation and auditing and testing of security systems as well as application standards and technologies required to build secure

VPNs, configure client software and server operating systems, IPsec-enabled routers, firewalls and SSL clients. This comprehensive book will provide essential knowledge and skills needed to select, design and deploy a public key infrastructure (PKI) to secure existing and future applications. * Chapters contributed by leaders in the field cover theory and practice of computer security technology, allowing the reader to develop a new level of technical expertise * Comprehensive and up-to-date coverage of security issues facilitates learning and allows the reader to remain current and fully informed from multiple viewpoints * Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

Synthesis of Parallel Algorithms Simon and Schuster

This book constitutes the refereed proceedings of the 7th Joint International Conference on Serious Games, JCSG 2021, as virtual event, in January 2022. The 17 full papers presented together with 3 short papers were carefully reviewed and selected from 28 submissions. JSCG 2021 is dedicated to serious games and its interdisciplinary characteristics combining game concepts and technologies required in the different application domains. Chapter "Design and Evaluation of a Serious Game to Supplement Pupils' Understanding of Molecular Structures in Chemistry" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Matroid Theory Springer Science & Business Media

August 8-12, 1994, Brighton, England From Animals to Animats 3 brings together research intended to advance the fron tier of an exciting new approach to understanding intelligence. The contributors represent a broad range of interests from artificial intelligence and robotics to ethology and the neurosciences. Unifying these approaches is the notion of "animat" -- an artificial animal, either simulated by a computer or embodied in a robot, which must survive and adapt in progressively more challenging environments. The 58 contributions focus particularly on well-defined models, computer simulations, and built robots in order to help characterize and compare various principles and architectures capable of inducing adaptive behavior in real or artificial animals. Topics include: - Individual and collective behavior. - Neural correlates of behavior. - Perception and motor control. - Motivation and emotion. - Action selection and behavioral sequences. - Ontogeny, learning, and evolution. - Internal world models and cognitive processes. - Applied adaptive behavior. - Autonomous robots. - Heirarchical and parallel organizations. - Emergent structures and behaviors. - Problem solving and planning. - Goal-directed behavior. - Neural networks and evolutionary computation. - Characterization of environments. A Bradford Book

Computational Geometry Springer Science & Business Media

The highly respected RHCE certification from Red Hat, Inc. indicates that the person has passed a realistic performance-based lab exam that tests his or her ability to install and configure Red Hat Linux, configure basic networking and file systems for a network, configure the X Window System, perform essential Red Hat Linux system administration, configure basic security for a network server, and carry out server diagnostics and troubleshooting. Red Hat recently updated the RHCE program for Red Hat Enterprise Linux, version 9.0. Previous

edition ISBN: 0782127932.
Environmental Justice Small Grants Program Morgan Kaufmann Publishers
Unlike traditional information systems which work by issuing requests and waiting for responses, event-driven systems are designed to process events as they occur, allowing the system to observe, react dynamically, and issue personalized data depending on the recipient and situation. Event Processing in Action introduces the major concepts of event-driven architectures and shows how to use, design, and build event processing systems and applications. Written for working software architects and developers, the book looks at practical examples and provides an in-depth explanation of their architecture and implementation. Since patterns connect the events that occur in any system, the book also presents common event-driven patterns and explains how to detect and implement them. Throughout the book, readers follow a comprehensive use case that incorporates all event processing programming styles in practice today. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.
Computer and Information Security Handbook American Mathematical Soc.
In recent years, the theory has become widely accepted and has beenfurther developed, but a detailed introduction is needed in orderto make the material available and accessible to a wide audience.This will be the first book providing such an introduction,covering core theory and recent developments which can be appliedto many application areas. All authors of individual chapters areleading researchers on the specific topics, assuring high qualityand up-to-date contents. An Introduction to Imprecise Probabilities provides acomprehensive introduction to imprecise probabilities, includingtheory and applications reflecting the current state if the art.Each chapter is written by experts on the respective topics,including: Sets of desirable gambles; Coherent lower (conditional)previsions; Special cases and links to literature; Decision making;Graphical models; Classification; Reliability and risk assessment;Statistical inference; Structural judgments; Aspects ofimplementation (including elicitation and computation); Models infinance; Game-theoretic probability; Stochastic processes(including Markov chains); Engineering applications. Essential reading for researchers in academia, researchinstitutes and other organizations, as well as practitionersengaged in areas such as risk analysis and engineering.
Artificial Intelligence Research and Development Andrews McMeel Pub
The two volume set, LNCS 12308 + 12309, constitutes the proceedings of the 25th European Symposium on Research in Computer Security, ESORICS 2020, which was held in September 2020. The conference was planned to take place in Guildford, UK. Due to the COVID-19 pandemic, the conference changed to an online format. The total of 72 full papers included in these proceedings was carefully reviewed and selected from 366 submissions. The papers were organized in topical sections named: database and Web security; system security; network security; software security; machine learning security; privacy; formal modelling; applied cryptography; analyzing attacks; post-

quantum cryptogrphy; security analysis; and blockchain.

Distributed Language John Wiley & Sons

Mallard Fillmore lampoons everything from political correctness to Phil, Oprah, and Geraldo to our government's insatiable appetite for spending our money. His marvelous supporting cast includes wickedly wonderful cariacatures of everyone who's anyone, from Hollywood to D.C. to Arkansas.

Computer Security – ESORICS 2020 John Benjamins Publishing

This volume was published in honor of Stefania Gnesi’s 65th birthday. The Festschrift volume contains 32 papers written by close collaborators and friends of Stefania and was presented to her on October 8, 2019 one-day colloquium held in Porto, Portugal, The Festschrift consists of eight sections, seven of which reflect the main research areas to which Stefania has contributed. Following a survey of Stefania's legacy in research and a homage by her thesis supervisor, these seven sections are ordered according to Stefania's life cycle in research, from software engineering to formal methods and tools, and back: Software Engineering; Formal Methods and Tools; Requirements Engineering; Natural Language Processing; Software Product Lines; Formal Verification; and Applications.

Introduction to Imprecise Probabilities IOS Press

This volume is the second part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 72 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on database and information systems; distributed software development; human computer interaction and interface; ICT; internet and Web computing; mobile computing; multi agent systems; multimedia and video systems; parallel and distributed algorithms; security, trust and privacy.

Advances in Computing and Communications, Part II Springer Science & Business Media

Mathematics of Computing -- Parallelism.

Fitness for Life Updated John Wiley & Sons

The topic of logic programming and databases. has gained in creasing interest in recent years. Several events have marked the rapid evolution of this field: the selection, by the Japanese Fifth Generation Project, of Prolog and of the relational data model as the basis for the development of new machine archi tectures; the focusing of research in database theory on logic queries and on recursive query processing; and the pragmatic, application-oriented development of expert database systems and of knowledge-base systems. As a result, an enormous amount of work has been produced in the recent literature, coupled with the spontaneous growth of several advanced projects in this area. The goal of this book is to present a systematic overview of a rapidly evolving discipline, which is presently not described with the same approach in other books. We intend to introduce stu dents and researchers to this new discipline; thus we use a plain, tutorial style, and complement the description of algorithms with examples and exercises. We attempt to achieve a balance be tween theoretical foundations and technological issues; thus we present a careful introduction to the new language Datalog, but we also focus on the efficient

interfacing of logic programming formalisms (such as Prolog and Datalog) with large databases.

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