

Logic Programming Theory Practices And Challenges

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Negotiation and Argumentation in Multi-Agent Systems - Fernando Lopes 2014-04-08

Agent technology has generated lots of excitement in the past decade. Currently, multi-agent systems (MAS) composed of autonomous agents representing individuals or organizations and capable of reaching mutually beneficial agreements through

negotiation and argumentation are becoming increasingly important and pervasive. Research on both automated negotiation and argumentation in MAS has a vigorous, exciting tradition. However, efforts to integrate both areas have received only selective attention in the academia and the practitioner literature. A symbiotic relationship could significantly strengthen each

area's progress and trigger new R&D challenges and prospects toward the advancement of automated negotiators and argumentation tools.

Negotiation and Argumentation in Multi-Agent Systems presents the current state-of-the-art on the theory and practice of automated negotiation and argumentation in MAS. The eBook encourages the interaction between these two areas in data modelling and attempts to converge them toward mutual enhancement and synergism. Equally, the monograph brings together researchers and industry practitioners specialized in these areas to share R&D results and discuss existing and emerging theoretical and applied problems. This book is intended as a textbook for graduate courses and a reference book for researchers, advanced-level students in Computers Science, and IT practitioners.

Functional and Logic Programming - Matthias Blume 2010-04-11

This book constitutes the

refereed proceedings of the 10th International Symposium on Functional and Logic Programming, FLOPS 2010, held in Sendai, Japan, in April 2010. The 21 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 49 submissions. The papers are organized in topical sections on types; program analysis and transformation; foundations; logic programming; evaluation and normalization; term rewriting; and parallelism and control.

Availability, Reliability and Security for Business, Enterprise and Health Information Systems - A Min Tjoa 2011-08-09

This book constitutes the refereed proceedings of the IFIP WG 8.4/8.9 International Cross Domain Conference and Workshop on Availability, Reliability and Security - Multidisciplinary Research and Practice for Business, Enterprise and Health Information Systems, ARGES 2011, held in Vienna, Austria, in August 2011. The 29 revised

papers presented were carefully reviewed and selected for inclusion in the volume. The papers concentrate on the many aspects of availability, reliability and security for information systems as a discipline bridging the application fields and the well-defined computer science field. They are organized in three sections: multidisciplinary research and practice for business, enterprise and health information systems; massive information sharing and integration and electronic healthcare; and papers from the colocated International Workshop on Security and Cognitive Informatics for Homeland Defense.

Agents and Ambient

Intelligence - Tibor Bosse 2012

The concept of an intelligent agent - a computational system capable of performing certain tasks autonomously - derived from the growing potential of digital computers in the mid 20th century and had been widely adopted by the early 1990s. Partly in parallel with this concept, the perspective of

ambient intelligence (Aml) emerged in the late 1990s. Agent technology and Aml have many similarities, and the main purpose of this book is to provide an overview of the state-of-the-art of the scientific area that integrates these two. The book addresses a wide variety of topics related to agents and Aml, including theoretical, practical, design, implementation, ethical and philosophical issues. The 12 chapters are arranged in four sections. The first consists of three chapters discussing ethical and philosophical issues; the second part explores various approaches that can be used to develop agent-based Aml Systems; the third part contains three chapters that share the goal to endow Aml systems with useful properties like intelligence and adaptivity and the last section presents concrete applications of agent-based Aml systems. This book provides an insight into recent achievements and future challenges at the intersection of agent technology and ambient intelligence and will

assist the development of more intelligent, flexible, effective and user-friendly systems as well as posing critical questions about the future of the role of agents within the Aml perspective.

Genetic Programming Theory and Practice XVIII - Wolfgang Banzhaf 2022-02-11

This book, written by the foremost international researchers and practitioners of genetic programming (GP), explores the synergy between theoretical and empirical results on real-world problems, producing a comprehensive view of the state of the art in GP. In this year's edition, the topics covered include many of the most important issues and research questions in the field, such as opportune application domains for GP-based methods, game playing and co-evolutionary search, symbolic regression and efficient learning strategies, encodings and representations for GP, schema theorems, and new selection mechanisms. The book includes several chapters on best practices and lessons

learned from hands-on experience. Readers will discover large-scale, real-world applications of GP to a variety of problem domains via in-depth presentations of the latest and most significant results.

Policy Practice and Digital Science - Marijn Janssen 2015-06-03

The explosive growth in data, computational power, and social media creates new opportunities for innovating the processes and solutions of Information and communications technology (ICT) based policy-making and research. To take advantage of these developments in the digital world, new approaches, concepts, instruments and methods are needed to navigate the societal and computational complexity. This requires extensive interdisciplinary knowledge of public administration, policy analyses, information systems, complex systems and computer science. This book provides the foundation for this new interdisciplinary field, in which

various traditional disciplines are blending. Both policy makers, executors and those in charge of policy implementations acknowledge that ICT is becoming more important and is changing the policy-making process, resulting in a next generation policy-making based on ICT support. Web 2.0 and even Web 3.0 point to the specific applications of social networks, semantically enriched and linked data, whereas policy-making has also to do with the use of the vast amount of data, predictions and forecasts, and improving the outcomes of policy-making, which is confronted with an increasing complexity and uncertainty of the outcomes. The field of policy-making is changing and driven by developments like open data, computational methods for processing data, opining mining, simulation and visualization of rich data sets, all combined with public engagement, social media and participatory tools.

Data Mining in Finance -

Boris Kovalerchuk 2006-04-18

Data Mining in Finance presents a comprehensive overview of major algorithmic approaches to predictive data mining, including statistical, neural networks, ruled-based, decision-tree, and fuzzy-logic methods, and then examines the suitability of these approaches to financial data mining. The book focuses specifically on relational data mining (RDM), which is a learning method able to learn more expressive rules than other symbolic approaches. RDM is thus better suited for financial mining, because it is able to make greater use of underlying domain knowledge. Relational data mining also has a better ability to explain the discovered rules - an ability critical for avoiding spurious patterns which inevitably arise when the number of variables examined is very large. The earlier algorithms for relational data mining, also known as inductive logic programming (ILP), suffer from a relative computational inefficiency and have rather limited tools for processing numerical data.

Data Mining in Finance introduces a new approach, combining relational data mining with the analysis of statistical significance of discovered rules. This reduces the search space and speeds up the algorithms. The book also presents interactive and fuzzy-logic tools for 'mining' the knowledge from the experts, further reducing the search space. Data Mining in Finance contains a number of practical examples of forecasting S&P 500, exchange rates, stock directions, and rating stocks for portfolio, allowing interested readers to start building their own models. This book is an excellent reference for researchers and professionals in the fields of artificial intelligence, machine learning, data mining, knowledge discovery, and applied mathematics.

Intelligent Sensor Networks -
Fei Hu 2012-12-15

Although governments worldwide have invested significantly in intelligent sensor network research and applications, few books cover

intelligent sensor networks from a machine learning and signal processing perspective. Filling this void, *Intelligent Sensor Networks: The Integration of Sensor Networks, Signal Processing and Machine Learning* focuses on the close integration of sensing, networking, and smart signal processing via machine learning. Based on the world-class research of award-winning authors, the book provides a firm grounding in the fundamentals of intelligent sensor networks, including compressive sensing and sampling, distributed signal processing, and intelligent signal learning. Presenting recent research results of world-renowned sensing experts, the book is organized into three parts: Machine Learning—describes the application of machine learning and other AI principles in sensor network intelligence—covering smart sensor/transducer architecture and data representation for intelligent sensors Signal Processing—considers the

optimization of sensor network performance based on digital signal processing techniques—including cross-layer integration of routing and application-specific signal processing as well as on-board image processing in wireless multimedia sensor networks for intelligent transportation systems Networking—focuses on network protocol design in order to achieve an intelligent sensor networking—covering energy-efficient opportunistic routing protocols for sensor networking and multi-agent-driven wireless sensor cooperation Maintaining a focus on "intelligent" designs, the book details signal processing principles in sensor networks. It elaborates on critical platforms for intelligent sensor networks and illustrates key applications—including target tracking, object identification, and structural health monitoring. It also includes a paradigm for validating the extent of spatiotemporal associations among data sources to enhance data cleaning in sensor networks, a

sensor stream reduction application, and also considers the use of Kalman filters for attack detection in a water system sensor network that consists of water level sensors and velocity sensors.

Knowledge Engineering and Knowledge Management - Annette ten Teije 2012-09-13

This book constitutes the refereed proceedings of the 18th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2012, held in Galway City, Ireland, in October 2012. The 44 revised full papers were carefully reviewed and selected from 107 submissions. The papers are organized in topical sections on knowledge extraction and enrichment, natural language processing, linked data, ontology engineering and evaluation, social and cognitive aspects of knowledge representation, application of knowledge engineering, and demonstrations.

Handbook of Research on Business Process Modeling - Cardoso, Jorge 2009-04-30

"This book aids managers in the transformation of organizations into world-class competitors through business process applications"--Provided by publisher.

Programming Challenges -

Steven S Skiena 2006-04-18

There are many distinct pleasures associated with computer programming. Craftsmanship has its quiet rewards, the satisfaction that comes from building a useful object and making it work. Excitement arrives with the flash of insight that cracks a previously intractable problem. The spiritual quest for elegance can turn the hacker into an artist. There are pleasures in parsimony, in squeezing the last drop of performance out of clever algorithms and tight coding. The games, puzzles, and challenges of problems from international programming competitions are a great way to experience these pleasures while improving your algorithmic and coding skills. This book contains over 100 problems that have appeared in previous programming

contests, along with discussions of the theory and ideas necessary to attack them.

Instant online grading for all of these problems is available from two WWW robot judging sites. Combining this book with a judge gives an exciting new way to challenge and improve your programming skills. This book can be used for self-study, for teaching innovative courses in algorithms and programming, and in training for international competition.

The problems in this book have been selected from over 1,000 programming problems at the Universidad de Valladolid online judge. The judge has ruled on well over one million submissions from 27,000 registered users around the world to date. We have taken only the best of the best, the most fun, exciting, and interesting problems available.

Foundations of Probabilistic Logic Programming -

Fabrizio Riguzzi 2022-09-01

Probabilistic Logic Programming extends Logic Programming by enabling the representation of uncertain information by means

of probability theory. Probabilistic Logic Programming is at the intersection of two wider research fields: the integration of logic and probability and Probabilistic Programming. Logic enables the representation of complex relations among entities while probability theory is useful for model uncertainty over attributes and relations. Combining the two is a very active field of study. Probabilistic Programming extends programming languages with probabilistic primitives that can be used to write complex probabilistic models. Algorithms for the inference and learning tasks are then provided automatically by the system. Probabilistic Logic programming is at the same time a logic language, with its knowledge representation capabilities, and a Turing complete language, with its computation capabilities, thus providing the best of both worlds. Since its birth, the field of Probabilistic Logic Programming has seen a steady

increase of activity, with many proposals for languages and algorithms for inference and learning. Foundations of Probabilistic Logic Programming aims at providing an overview of the field with a special emphasis on languages under the Distribution Semantics, one of the most influential approaches. The book presents the main ideas for semantics, inference, and learning and highlights connections between the methods. Many examples of the book include a link to a page of the web application <http://cplint.eu> where the code can be run online.

Practical Aspects of Declarative Languages - Pascal van Hentenryck 2005-12-23

This volume contains the papers presented at the Eighth International Symposium on Practical Aspects of Declarative Languages (PADL 2006) held on January 9-10, 2006, in Charleston, South Carolina. Information about the conference can be found at <http://www.cs.brown.edu/people/pvh/PADL06.html>. As is now traditional, PADL 2006 was co-

located with the 33rd Annual Symposium on Principles of Programming Languages that was held on January 11-13, 2006. The PADL conference series is a forum for researchers and practitioners to present original work emphasizing novel applications and implementation techniques for all forms of declarative concepts. Topics of interest include, but are not limited to: – Innovative applications of declarative languages; – Declarative domain-specific languages and applications; – Practical applications of theoretical results; – New language developments and their impact on applications; – Evaluation of implementation techniques on practical applications; – Novel implementation techniques relevant to applications; – Novel uses of declarative languages in the classroom; – Practical experiences. This year, there were 36 submissions. Each submission was reviewed by at least three Programme Committee members. The committee decided to accept

15 papers. In addition, the programme also included three invited talks by Erik Meijer, David Roundy, and Philip Walder.

Principles and Practice of Constraint Programming-CP

2013 - Christian Schulte
2013-09-07

This book constitutes the refereed conference proceedings of the 18th International Conference on Principles and Practice of Constraint Programming (CP 2013), held in Uppsala, Sweden, in September 2013. The 61 revised papers presented together with 3 invited talks were carefully selected from 138 submissions. The scope of the conference is on all aspects of computing with constraints, including: theory, algorithms, environments, languages, models and systems, applications such as decision making, resource allocation, and agreement technologies. *Genetic Programming Theory and Practice VIII* - Rick Riolo
2010-10-20

The contributions in this volume

are written by the foremost international researchers and practitioners in the GP arena. They examine the similarities and differences between theoretical and empirical results on real-world problems. The text explores the synergy between theory and practice, producing a comprehensive view of the state of the art in GP application. Topics include: FINCH: A System for Evolving Java, Practical Autoconstructive Evolution, The Rubik Cube and GP Temporal Sequence Learning, Ensemble classifiers: AdaBoost and Orthogonal Evolution of Teams, Self-modifying Cartesian GP, Abstract Expression Grammar Symbolic Regression, Age-Fitness Pareto Optimization, Scalable Symbolic Regression by Continuous Evolution, Symbolic Density Models, GP Transforms in Linear Regression Situations, Protein Interactions in a Computational Evolution System, Composition of Music and Financial Strategies via GP, and Evolutionary Art Using Summed Multi-Objective Ranks. Readers will discover large-

scale, real-world applications of GP to a variety of problem domains via in-depth presentations of the latest and most significant results in GP .

Functional and Logic Programming - Oleg Kiselyov
2016-02-22

This book constitutes the proceedings of the 13th International Symposium on Functional and Logic Programming, FLOPS 2016, held in Kochi, Japan, in March 2016. The 14 papers presented in this volume were carefully reviewed and selected from 36 submissions. They cover the following topics: functional and logic programming; program transformation and re-writing; and extracting programs from proofs of their correctness.

Learning Language in Logic - James Cussens 2003-07-31
This volume has its origins in the first Learning Language in Logic (LLL) workshop which took place on 30 June 1999 in Bled, Slovenia immediately after the Ninth International Workshop on Inductive Logic Programming (ILP'99) and the Sixteenth International

Conference on Machine Learning (ICML'99). LLL is a research area lying at the intersection of computational linguistics, machine learning, and computational logic. As such it is of interest to all those working in these three fields. I am pleased to say that the workshop attracted submissions from both the natural language processing (NLP) community and the ILP community, reflecting the essentially multidisciplinary nature of LLL. Eric Brill and Ray Mooney were invited speakers at the workshop and their contributions to this volume reflect the topics of their stimulating invited talks. After the workshop authors were given the opportunity to improve their papers, the results of which are contained here. However, this volume also includes a substantial amount of two sorts of additional material. Firstly, since our central aim is to introduce LLL work to the widest possible audience, two introductory chapters have been written. Dzeroski, Cussens and

Manandhar provide an introduction to ILP and LLL and Thompson provides an introduction to NLP.

Practical Aspects of Declarative Languages -

Matthew Flatt 2013-12-09

This book constitutes the refereed proceedings of the 16th International Symposium on Practical Aspects of Declarative Languages, PADL 2014, held in San Diego, CA, USA, in January 2014, co-located with POPL 2014, the 41st Symposium on Principles of Programming Languages.

The 15 revised papers presented were carefully reviewed and selected from 27 submissions. They cover a wide range of topics related to logic and functional programming, including language support for parallelism and GPUs, constructs and techniques for modularity and extensibility, and applications of declarative programming to document processing and DNA simulation. *Logic Programming* - John Lloyd 1995

The International Logic Programming Symposium is

one of two major international conferences sponsored by the Association of Logic Programming. Both conferences are held annually. The theme for the 1995 conference was "Declarative Systems", particularly the integration of the logic programming, functional programming, and object-oriented programming paradigms.

Progress in Artificial Intelligence

- Pedro Barahona 2003-07-31
The Portuguese Association for Artificial Intelligence (APPIA) has been regularly organising the Portuguese Conference on Artificial Intelligence (EPIA). This ninth conference follows previous ones held in Porto (1985), Lisboa (1986), Braga (1987), Lisboa (1989), Albufeira (1991), Porto (1993), Funchal (1995) and Coimbra (1997). Starting in 1989, the conferences have been held biennially (alternating with an APPIA Advanced School on Artificial Intelligence) and become truly international: English has been adopted as the official language and the proceedings are published in Springer's LNAI

series. The conference has reconformed its high international standard this year, largely due to its programme committee, composed of distinguished researchers in a variety of specialities in Artificial Intelligence, half of them from Portuguese universities. This has attracted a significant international interest, well expressed by the number of papers submitted (66), from 17 different countries, 29 of which are by Portuguese researchers. From the 66 papers submitted, about one third of them (23) were selected for oral presentation and have been published in this volume. The review process enabled the selection of high quality papers, each paper being reviewed by two or three reviewers, either from the programme committee or by their appointment. We would like to thank all of the reviewers for their excellent and hard work.

Static Analysis - Bor-Yuh Evan Chang 2019-10-05

This book constitutes the refereed proceedings of the 26th International Symposium

on Static Analysis, SAS 2019, held in Porto, Portugal, in October 2019. The 20 regular papers presented in this book were carefully reviewed and selected from 50 submissions. The papers are grouped in topical sections on pointers and dataflow; languages and decidability; numerical; trends: assuring machine learning; synthesis and security; and temporal properties and termination.

Mathematical Methods and Models in Economic Planning, Management and Budgeting - Galimkair Mutanov 2014-11-04
This book describes a system of mathematical models and methods that can be used to analyze real economic and managerial decisions and to improve their effectiveness. Application areas include: management of development and operation budgets, assessment and management of economic systems using an energy entropy approach, equation of exchange rates and forecasting foreign exchange operations, evaluation of innovative projects, monitoring

of governmental programs, risk management of investment processes, decisions on the allocation of resources, and identification of competitive industrial clusters. The proposed methods and models were tested on the example of Kazakhstan's economy, but the generated solutions will be useful for applications at other levels and in other countries. Regarding your book "Mathematical Methods and Models in Economics", I am impressed because now it is time when "econometrics" is becoming more appreciated by economists and by schools that are the hosts or employers of modern economists. ... Your presented results really impressed me. John F. Nash, Jr., Princeton University, Nobel Memorial Prize in Economic Sciences The book is within my scope of interest because of its novelty and practicality. First, there is a need for realistic modeling of complex systems, both natural and artificial that conclude computer and economic systems. There has been an ongoing effort in

developing models dealing with complexity and incomplete knowledge. Consequently, it is clear to recognize the contribution of Mutanov to encapsulate economic modeling with emphasis on budgeting and innovation. Secondly, the method proposed by Mutanov has been verified by applying to the case of the Republic of Kazakhstan, with her vibrant emerging economy. Thirdly, Chapter 5 of the book is of particular interest for the computer technology community because it deals with innovation. In summary, the book of Mutanov should become one of the outstanding recognized pragmatic guides for dealing with innovative systems. Andrzej Rucinski, University of New Hampshire

This book is unique in its theoretical findings and practical applicability. The book is an illuminating study based on an applied mathematical model which uses methods such as linear programming and input-output analysis. Moreover, this work demonstrates the author's

great insight and academic brilliance in the fields of finance, technological innovations and marketing vis-à-vis the market economy. From both theoretical and practical standpoint, this work is indeed a great achievement. Yeon Cheon Oh, President of Seoul National University

Smart Information and Knowledge Management - Edward Szczerbicki 2009-12-01

New approaches are needed that could move us towards developing effective applicable intelligent systems for problem solving and decision making, One of the main efforts in intelligent systems development is focused on knowledge and information management which is regarded as the crucial issue in smart decision making support. The 14 Chapters of this book represent a sample of such effort. The overall aim of this book is to provide guidelines to develop tools for smart processing of knowledge and information. Still, the guide does not presume to give ultimate answers. Rather, it

poses ideas and case studies to explore the complexities and challenges of modern knowledge management issues. It also encourages its reader to become aware of the multifaceted interdisciplinary character of such issues. The premise of this book is that its reader will leave it with a heightened ability to think - in different ways - about developing, evaluating, and supporting intelligent knowledge and information management systems in real life based environment.

The Logic Programming Paradigm - Krzysztof R. Apt
2012-12-06

This exciting new text reveals both the evolution of this programming paradigm since its inception and the impressively broad scope of current research in the field. The contributors to this book are all leading world experts in Logic Programming, and they deal with both theoretical and practical issues. They address such diverse topics as: computational molecular biology, machine learning,

mobile computing, multi-agent systems, planning, numerical computing and dynamical systems, database systems, an alternative to the "formulas as types" approach, program semantics and analysis, and natural language processing. XXXXXX Neuer Text Logic Programming was founded 25 years ago. This exciting book reveals both the evolution of this programming paradigm and its impressively broad scope of current research. The contributions by leading computer scientists deal with both theoretical and practical issues. They address diverse topics such as: computational molecular biology, machine learning, mobile computing, multi-agent systems, numerical computing and dynamical systems, database systems, program semantics, natural language processing, and promising future directions.

Theory and Practice of Model Transformations - Richard F. Paige 2009-06-15
This book constitutes the refereed proceedings of the Second International

Conference on Theory and Practice of Model Transformations, ICMT 2009, held at the ETH in Zurich, Switzerland, in June 2009. The 14 revised full papers and 3 revised short papers presented together with 1 invited lecture were carefully reviewed and selected from 67 submissions. The papers address questions about the nature and features of model transformations, their composability and combination to build new model transformations and implement high-level model management operations, the classification of languages for expressing transformations, the measurement of the quality and extra-functional requirements of model transformations, and the definition of development methodologies that allow exploiting all their potential benefits. The volume also contains the minutes of the GRACE International Meeting on Bidirectional Transformations, held in December 2009 near Tokyo, Japan.

Mathematical and Engineering Methods in

Computer Science - Jan Kofroň 2016-02-03

This volume contains the post-conference proceedings of the 10th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, MEMICS 2015, held in Telč, Czech Republic, in October 2015. The 10 thoroughly revised full papers were carefully selected out of 25 submissions and are presented together with 3 invited papers. The topics covered include: security and safety, bioinformatics, recommender systems, high-performance and cloud computing, and non-traditional computational models (quantum computing, etc.).

Logic Programming -

Christoph Beierle 1995

This text aims at promoting a convergence between the technical challenges of developing advanced software systems and the formal

techniques, tools and features evolving from the logic programming paradigm. It provides contributions towards different aspects of logic programming.

Computational Intelligence and Security - Yunping Wang
2007-09-13

The refereed post-proceedings of the International Conference on Computational Intelligence and Security are presented in this volume. The 116 papers were submitted to two rounds of careful review. Papers cover bio-inspired computing, evolutionary computation, learning systems and multi-agents, cryptography, information processing and intrusion detection, systems and security, image and signal processing, and pattern recognition.

Encyclopedia of Software Engineering Three-Volume Set (Print) - Phillip A. Laplante
2010-11-22

Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms,

applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering

students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel)

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Foundations of Information and Knowledge Systems -

Sebastian Link 2010-03-02 This volume constitutes the thoroughly refereed post-conference proceedings of the Sixth International Symposium on Foundations of Information

and Knowledge Systems (FOLKS 2010) which was held in Sofia, Bulgaria, in February 2010. The 19 revised full papers presented together with three invited talks were carefully reviewed and selected from 50 papers.

Artificial Intelligence: Theories, Models and Applications - John Darzentas 2008-09-19

This book constitutes the refereed proceedings of the 5th Hellenic Conference on Artificial Intelligence, SETN 2008, held at Syros, Greece in October 2008. The 27 revised full papers together with 17 revised short papers were carefully reviewed and selected from 76 submissions. The papers address any area of artificial intelligence; particular fields of interest include: Adaptive Systems, AI and Creativity, AI architectures, Artificial Life, Autonomous Systems, Data Mining and Knowledge Discovery, Hybrid Intelligent Systems & Methods, Intelligent Agents, Multi-agent Systems, Intelligent Distributed Systems, Intelligent Information

Retrieval, Intelligent/Natural Interactivity, Intelligent Virtual Environments, Knowledge Representation and Reasoning, Logic Programming, Knowledge-Based Systems, Machine Learning, Neural Nets, Genetic Algorithms, Natural Language Processing, Planning and Scheduling, Problem Solving, Constraint Satisfaction, Robotics, Machine Vision, Machine Sensing.

Machine Learning and Knowledge Discovery in Databases - Annalisa Appice
2015-08-28

The three volume set LNAI 9284, 9285, and 9286 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases, ECML PKDD 2015, held in Porto, Portugal, in September 2015. The 131 papers presented in these proceedings were carefully reviewed and selected from a total of 483 submissions. These include 89 research papers, 11 industrial papers, 14 nectar papers, 17 demo papers. They were organized in topical

sections named: classification, regression and supervised learning; clustering and unsupervised learning; data preprocessing; data streams and online learning; deep learning; distance and metric learning; large scale learning and big data; matrix and tensor analysis; pattern and sequence mining; preference learning and label ranking; probabilistic, statistical, and graphical approaches; rich data; and social and graphs. Part III is structured in industrial track, nectar track, and demo track.

Modeling Companion for Software Practitioners -

Egon Börger 2018-03-31

This book uses a variety of applications to illustrate a modeling method that helps practitioners to manage complex software-intensive systems. The proposed method relies on the combination of its abstraction concept and its operational character, with behavioral models in the precise and simple form of Abstract State Machines (ASMs). The book introduces both the modeling method (Part

I) and the available tool support (Part II): In Part I the authors detail (using numerous examples) how to construct, explain, debug, explore, extend and reuse accurate system design models, starting from scratch. Only an elementary knowledge of common mathematical (including set-theoretic) notation and some basic experience with computational processes (systems, programs, algorithms) is assumed. Part II then shows how the modeling method can be supported by implementing tools that make design models executable and debuggable. To illustrate how to build, debug and maintain systems and to explain their construction in a checkable manner, a general, problem-oriented refinement method is adopted to construct system models from components. The method starts with abstract models and refines them step by step, incrementally adding further details that eventually lead to code. Intended for practitioners who build software intensive systems, and

students specializing in software engineering, it can be used both for self-study and for teaching, and it can serve as a reference book. Exercises are included to help readers check their understanding of the explained concepts. For many models defined in the book, refinements to executable versions can be downloaded for experimental validation from the book's website at <http://modelingbook.informatik.uni-ulm.de>

Theory, Practice, and Applications of Rules on the Web - Leora Morgenstern
2013-07-04

This book constitutes the refereed proceedings of the 7th International RuleML Symposium, RuleML 2013, held in Seattle, WA, USA, in July 2013 - collocated with the 27th AAAI 2013. The 22 full papers, 12 technical papers in main track, 3 technical papers in human language technology track, and 4 tutorials presented together with 3 invited talks were carefully reviewed and selected from numerous submissions. The accepted

papers address topics such as rule-based programming and rule-based systems including production rules systems, logic programming rule engines, and business rules engines/business rules management systems; Semantic Web rule languages and rule standards; rule-based event processing languages (EPLs) and technologies; and research on inference rules, transformation rules, decision rules, production rules, and ECA rules.

The SAGE Handbook of Evaluation - Ian Shaw
2006-07-27

In this comprehensive handbook, an examination of the complexities of contemporary evaluation contributes to the ongoing dialogue that arises in professional efforts to evaluate people-related programs, policies, and practices. The SAGE Handbook of Evaluation is a unique and authoritative resource consisting of 25 chapters covering a range of evaluation theories and techniques in a single, accessible volume. With

contributions from world-leading figures in their fields overseen by an eminent international editorial board, this handbook is an extensive and user-friendly resource.

Datalog in Academia and Industry - Pablo Barceló
2012-08-27

This book constitutes the refereed proceedings of the Second International Workshop on Datalog 2.0, held in Vienna, Austria, in September 2012. The 14 revised full papers presented together with 2 invited talks and 2 invited tutorials were carefully reviewed and selected from 17 initial submissions. Datalog 2.0 is a workshop for Datalog pioneers, implementors, and current practitioners; the contributions aim to bring every participant up-to-date with the newest developments and map out directions for the future.

Logic Programming - Marcus J. Lambert 2014

Prolog for logic programming is one of the most intensively studied software languages in the 1980s. During the same period, the data-flow model for

parallel computation attracted a lot of attention of researchers in the computer science; hence, it was very natural that several approaches were tried toward combining the two and implementing logic programs in parallel machines with the data-flow architecture. These approaches, however, were rather indirect ones in the sense that they developed programs describing AND/OR-parallelism for deduction using a data-flow language and executed them in a data-flow computer, and yet did not devise a direct model for parallel execution (reasoning) of a logic program. This book discusses fuzzy logic inferencing for Pong; dislog; SEProlog; and provides direct graphical representations of first-order logic for inference. *Design for Health* - Arathi Sethumadhavan 2020-01-29 Design for Health: Applications of Human Factors delves into critical and emergent issues in healthcare and patient safety and how the field of human factors and ergonomics play a role in this domain. The book

uses the Design for X (DfX) methodology to discuss a wide range of contexts, technologies, and population dependent criteria (X's) that must be considered in the design of a safe and usable healthcare ecosystem. Each chapter discusses a specific topic (e.g., mHealth, medical devices, emergency response, global health, etc.), reviews the concept, and presents a case study that demonstrates how human factors techniques and principles are utilized for the design, evaluation or improvements to specific tools, devices, and technologies (Section 1), healthcare systems and environments (Section 2), and applications to special populations (Section 3). The book represents an essential resource for researchers in academia as well as practitioners in medical device industries, consumer IT, and hospital settings. It covers a range of topics from medication reconciliation to self-care to the artificial heart. Uses the Design for X (DfX) methodology A case study approach provides

practical examples for operationalization of key human factors principles and guidelines Provides specific design guidelines for a wide range of topics including resilience, stress and fatigue management, and emerging technologies Examines special populations, such as the elderly and the underserved Brings a multidisciplinary, multi-industry approach to a wide range of healthcare human factors issues

Inductive Logic

Programming - Nada Lavrač
1997-09-03

This book constitutes the strictly refereed post-workshop proceedings of the 6th International Workshop on Inductive Logic Programming, ILP-96, held in Stockholm, Sweden, in August 1996. The 21 full papers were carefully reviewed and selected for inclusion in the book in revised version. Also included is the invited contribution "Inductive logic programming for natural language processing" by Raymond J. Mooney. Among the

topics covered are natural language learning, drug design, NMR and ECG analysis, glaucoma diagnosis, efficiency measures for implementations and database interaction, program synthesis, proof encoding and learning in the absence of negative data, and least generalizations under implication ordering.

Practical Aspects of Declarative Languages -

Yuliya Lierler 2017-01-06

This book constitutes the proceedings of the 19th International Symposium on Practical Aspects of Declarative Languages, PADL 2017, held in Paris, France, in January 2017 and collocated with the ACM SIGPLAN Symposium on Principles of Programming Languages. The 14 papers presented in this volume were carefully reviewed and selected from 27 submissions. They deal with novel applications and implementation techniques for all forms of declarative languages, including but not limited to logic, constraint, and functional languages.