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CROSS WIGGINS

New Trends in Intelligent Software Methodologies, Tools and Techniques

Morgan & Claypool Publishers

The Handbook of Formal Argumentation is a community effort aimed at providing a comprehensive and up-to-date view of the state of the art and current trends in the lively research field of formal argumentation. The first volume of the Handbook is organised into five parts, containing nineteen chapters in all, each written by leading experts in the field. The first part provides a general and historical perspective on the field. The second part gives a comprehensive coverage of the

argumentation formalisms available in the literature at various levels of abstraction. The third part is devoted to cover some of the many dialogical aspects of argumentation, while the fourth one deals with algorithmic, computational and implementation issues. Finally, the fifth part provides some deeper analyses on the previously introduced topics. The Handbook of Formal Argumentation is an open-ended initiative of which the present volume is the first outcome. Further volumes are planned to cover topics not included in the present one and the initiative is conceived to grow by the support and feeding it receives from the community members.

Fuzzy Implications CRC Press

The three volume-set, LNCS 10991, LNCS 10992, and LNCS 10993, constitutes the refereed proceedings of the 38th Annual International Cryptology Conference, CRYPTO 2018, held in Santa Barbara, CA, USA, in August 2018. The 79 revised full papers presented were carefully reviewed and selected from 351 submissions. The papers are organized in the following topical sections: secure messaging; implementations and physical attacks prevention; authenticated and format-preserving encryption; cryptanalysis; searchable encryption and differential privacy; secret sharing; encryption; symmetric cryptography; proofs of work and proofs of stake; proof tools; key exchange; symmetric cryptanalysis;

hashes and random oracles; trapdoor functions; round optimal MPC; foundations; lattices; lattice-based ZK; efficient MPC; quantum cryptography; MPC; garbling; information-theoretic MPC; oblivious transfer; non-malleable codes; zero knowledge; and obfuscation.

Image and Video Retrieval ACM

Smart cities operate under more resource-efficient management and economy than ordinary cities. As such, advanced business models have emerged around smart cities, which led to the creation of smart enterprises and organizations that depend on advanced technologies. This book includes 21 selected and peer-reviewed articles contributed in the wide spectrum of artificial intelligence applications to smart cities. Chapters refer to the following areas of interest: vehicular traffic prediction, social big data analysis, smart city management, driving and routing, localization, safety, health, and life quality.

Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery

Springer Nature

Papers direct the focus of interest to the development and use of conceptual

models in information systems of various kinds and aim at improving awareness about general or specific problems and solutions in conceptual modelling.

Novelties in Intelligent Digital Systems
Springer

Information modeling and knowledge bases are important technologies for academic and industrial research that goes beyond the traditional borders of information systems and computer science. The amount and complexity of information to be dealt with grows continually, as do the levels of abstraction and the size of databases. This book presents the proceedings of the 30th International Conference on Information Modelling and Knowledge Bases (EJC2020), due to be held in Hamburg, Germany on 8 and 9 June 2020, but instead held as a virtual conference on the same dates due to the Corona-virus pandemic restrictions. The conference provides a research forum for the exchange of scientific results and experiences, and brings together experts from different areas of computer science and other disciplines with a common interest in information modeling and

knowledge bases. The subject touches on many disciplines, with philosophy and logic, cognitive science, knowledge management, linguistics and management science, as well as the emerging fields of data science and machine learning, all being relevant areas. The 23 reviewed, selected, and upgraded contributions included here are the result of presentations, comments, and discussions from the conference, and reflect the themes of the conference sessions: learning and linguistics; systems and processes; data and knowledge representation; models and interfaces; formalizations and reasoning; models and modeling; machine learning; models and programming; environment and predictions; modeling emotion; and social networks. The book provides an overview of current research and applications, and will be of interest to all those working in the field.

Information Modelling and Knowledge Bases III Academic Press

This book constitutes the refereed proceedings of the Third International Conference on Image and Video Retrieval, CIVR 2004, held in Dublin, Ireland in July

2004. The 31 revised full papers and 44 poster papers presented were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on image annotation and user searching, image and video retrieval algorithms, person and event identification for retrieval, content-based image and video retrieval, and user perspectives.

Signal and Image Processing for Remote Sensing Springer

This book is the first ever to deal exclusively with this class of operations. It offers an introduction to Fuzzy Implications, an analytical study of them, and an algebraic exploration into the structures that exist on the set of all FIs. *Combinatorial Optimization and Applications* Springer Science & Business Media

An authoritative treatment of urban computing, offering an overview of the field, fundamental techniques, advanced models, and novel applications. Urban computing brings powerful computational techniques to bear on such urban challenges as pollution, energy consumption, and traffic congestion. Using today's large-scale computing

infrastructure and data gathered from sensing technologies, urban computing combines computer science with urban planning, transportation, environmental science, sociology, and other areas of urban studies, tackling specific problems with concrete methodologies in a data-centric computing framework. This authoritative treatment of urban computing offers an overview of the field, fundamental techniques, advanced models, and novel applications. Each chapter acts as a tutorial that introduces readers to an important aspect of urban computing, with references to relevant research. The book outlines key concepts, sources of data, and typical applications; describes four paradigms of urban sensing in sensor-centric and human-centric categories; introduces data management for spatial and spatio-temporal data, from basic indexing and retrieval algorithms to cloud computing platforms; and covers beginning and advanced topics in mining knowledge from urban big data, beginning with fundamental data mining algorithms and progressing to advanced machine learning techniques. Urban Computing provides students, researchers, and

application developers with an essential handbook to an evolving interdisciplinary field.

Advances in Cryptology - CRYPTO 2018 MIT Press

The Lost Smile is beautifully illustrated colourful picture book that demonstrates the importance of accepting our emotions. Zaytoon's journey shows children it's okay to be sad and reassures young readers that sadness can be temporary.

Culturally Sustainable Social Robotics IOS Press

Incorporating the information related to mechanisms and treatment of cardiac arrhythmia, this book discusses genetics of arrhythmias, cell signalling molecules as potential therapeutic targets and trafficking to the membrane. These approaches and implementations of anti-arrhythmic therapy derive from many decades of research.

Asiaccs '18 IOS Press

This book constitutes the refereed proceedings of the 15th Annual International Conference on Combinatorial Optimization and Applications, COCOA 2021, which took place in Tianjin, China, during December 17-19, 2021. The 55

papers presented in this volume were carefully reviewed and selected from 122 submissions. They deal with combinatorial optimization and its applications in general, focusing on algorithms design, theoretical and experimental analysis, and applied research of general algorithmic interest.

A Clinical Introduction to Psychosis

Englewood Cliffs, N.J : Prentice-Hall

The integration of AI with software is an essential enabler for science and the new economy, creating new markets and opportunities for a more reliable, flexible and robust society. Current software methodologies, tools and techniques often fall short of expectations, however, and much software remains insufficiently robust and reliable for a constantly changing and evolving market. This book presents 54 papers delivered at the 20th edition of the International Conference on New Trends in Intelligent Software Methodology Tools, and Techniques (SoMeT_21), held in Cancun, Mexico, from 21-23 September 2021. The aim of the conference was to capture the essence of a new state-of-the-art in software science and its supporting technology and to

identify the challenges that such a technology will need to master, and this book explores the new trends and theories illuminating the direction of development in this field as it heads towards a transformation in the role of software and science integration in tomorrow's global information society. The 54 revised papers were selected for publication by means of a rigorous review process involving 3 or 4 reviewers for each paper, followed by selection by the SoMeT_21 international reviewing committee. The book is divided into 9 chapters, classified by paper topic and relevance to the chapter theme.

Covering topics ranging from research practices, techniques and methodologies to proposing and reporting on the solutions required by global business, the book offers an opportunity for the software science community to consider where they are today and where they are headed in the future.

Artificial Intelligence Research and Development Springer Nature

Most data from satellites are in image form, thus most books in the remote sensing field deal exclusively with image processing. However, signal processing

can contribute significantly in extracting information from the remotely sensed waveforms or time series data. Pioneering the combination of the two processes, Signal and Image Processing for Re

Basis and Treatment of Cardiac Arrhythmias Elsevier

Background modeling and foreground detection are important steps in video processing used to detect robustly moving objects in challenging environments. This requires effective methods for dealing with dynamic backgrounds and illumination changes as well as algorithms that must meet real-time and low memory requirements. Incorporating both establish

Handbook of Formal Argumentation Springer Science & Business Media

The subject of social robotics has enormous projected economic significance. However, social robots not only present us with novel opportunities but also with novel risks that go far beyond safety issues. It is a potentially highly disruptive technology which could negatively affect the most valuable parts of the fabric of human social interactions in irreparable ways. Since engineering educations do not yet offer the necessary

competences to analyze, holistically assess, and constructively mitigate these risks, new alliances must be established between engineering and SSH disciplines, with special emphasis on the humanities (i.e. disciplines specializing in the analysis of socio-cultural interactions and human experience). The Robophilosophy Conference Series was established in 2014 with the purpose of creating a new forum and catalyzing the research discussion in this important area of applied humanities research, with focus on robophilosophy. Robophilosophy conferences have been the world's largest venues for humanities research in and on social robotics. The book at hand presents the proceedings of Robophilosophy Conference 2020: Culturally Sustainable Social Robotics, the fourth event in the international, biennial Robophilosophy Conference Series, which brought together close to 400 participants from 29 countries. The speakers of the conference, whose contributions are collected in this volume, were invited to offer concrete proposals for how the Humanities can help to shape a future where social robotics is guided by the goals of enhancing socio-cultural values

rather than by utility alone. The book is divided into 3 parts; Abstracts of Plenaries, which contains 6 plenary sessions; Session Papers, with 44 papers under 8 thematic categories; and Workshops, containing 25 items on 5 selected topics. Providing concrete proposals from philosophers and other SSH researchers for new models and methods, this book will be of interest to all those involved in developing artificial 'social' agents in a culturally sustainable way that is also - a fortiori - ethically responsible.

Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery IOS Press

This book gives a start-to-finish overview of the whole Fish4Knowledge project, in 18 short chapters, each describing one aspect of the project. The Fish4Knowledge project explored the possibilities of big video data, in this case from undersea video.

Recording and analyzing 90 thousand hours of video from ten camera locations, the project gives a 3 year view of fish abundance in several tropical coral reefs off the coast of Taiwan. The research system built a remote recording network, over 100 Tb of storage, supercomputer

processing, video target detection and tracking, fish species recognition and analysis, a large SQL database to record the results and an efficient retrieval mechanism. Novel user interface mechanisms were developed to provide easy access for marine ecologists, who wanted to explore the dataset. The book is a useful resource for system builders, as it gives an overview of the many new methods that were created to build the Fish4Knowledge system in a manner that also allows readers to see how all the components fit together.

Concise Computer Vision CRC Press

This textbook provides an accessible general introduction to the essential topics in computer vision. Classroom-tested programming exercises and review questions are also supplied at the end of each chapter. Features: provides an introduction to the basic notation and mathematical concepts for describing an image and the key concepts for mapping an image into an image; explains the topologic and geometric basics for analysing image regions and distributions of image values and discusses identifying patterns in an image; introduces optic flow

for representing dense motion and various topics in sparse motion analysis; describes special approaches for image binarization and segmentation of still images or video frames; examines the basic components of a computer vision system; reviews different techniques for vision-based 3D shape reconstruction; includes a discussion of stereo matchers and the phase-congruency model for image features; presents an introduction into classification and learning.

Fish4Knowledge: Collecting and Analyzing Massive Coral Reef Fish Video Data MDPI

We are pleased to present herein the proceedings of the 13th ACM Symposium on Information, Computer and Communications Security (ASIACCS 2018) held in Incheon, Korea, June 4-8, 2018. ASIACCS 2018 is organized by AsiaCCS 2018 organizing committee, supported by ACM SigSAC, Korea Institute of Information Security & Cryptography (KIISC). We received 310 submissions. This year's Program Committee comprising 103 security researchers from 24 countries,

helped by 73 external reviewers, evaluated these submissions through thoughtful discussion and rigorous review procedure. The review process resulted in 52 full papers being accepted to the program, representing an acceptance rate of about 17%. In addition, 10 short papers and 15 posters are also included in the program. Once again we have a very strong technical program along with 5 specialized pre-conference workshops: CPSS'18, APKC'18, RESEC'18, BBC'18, and SCC'18. We are also fortunate to have distinguished invited speakers, Dr. Cliff Wang, Dr. Jaeyeon Jung, and Prof. Kevin Fu, who will provide various insights into Cyber Deception: an emergent research area, Securing a large scale IoT ecosystem, and Analog Sensor Cybersecurity and Transduction Attacks, respectively. These valuable and insightful talks can and will guide us to a better understanding on both fundamental and emerging topic areas in the field of information, computer and communications security.

Artificial Intelligence Applications to Smart

City and Smart Enterprise IOS Press

This book constitutes the refereed proceedings of the 6th International Conference on E-Technologies, MCETECH 2015, held in Montréal, Canada, in May 2015. The 18 papers presented in this volume were carefully reviewed and selected from 42 submissions. They have been organized in topical sections on process adaptation; legal issues; social computing; eHealth; and eBusiness, eEducation and eLogistics.

Background Modeling and Foreground Detection for Video Surveillance Springer

This book discusses the recent advances in natural computation, fuzzy systems and knowledge discovery. Presenting selected, peer-reviewed papers from the 15th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-FSKD 2019), held in Kunming, China, from 20 to 22 July 2019, it is a useful resource for researchers, including professors and graduate students, as well as R&D staff in industry.