

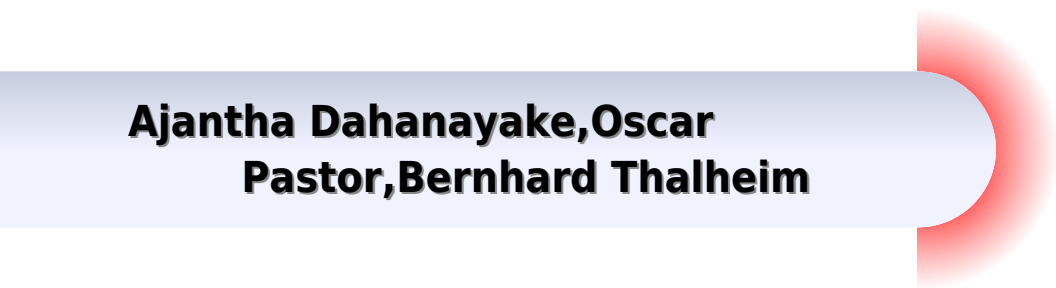
Advances in Information
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Information Modelling And Knowledge Bases Xxiii Frontiers In Artificial Intelligence And Applications

**Ajantha Dahanayake, Oscar
Pastor, Bernhard Thalheim**



Information Modelling And Knowledge Bases Xxiii Frontiers In Artificial Intelligence And Applications:

Information Modelling and Knowledge Bases XXIII J. Henno,Y. Kiyoki,T. Tokuda,2012-01-18 Information modelling and knowledge bases have become hot topics not only in academic communities concerned with information systems and computer science but also wherever information technology is applied in the world of business This book presents the proceedings of the 21st European Japanese Conference on Information Modelling and Knowledge Bases EJC 2011 held in Tallinn Estonia in June 2011 The EJC conferences provide a worldwide forum for researchers and practitioners in the field to exchange results and experiences achieved in computer science and related disciplines such as conceptual analysis design and specification of information systems multimedia information modelling multimedia systems software engineering knowledge and process management cross cultural communication and context modelling Attention is also paid to theoretical disciplines including cognitive science artificial intelligence logic linguistics and analytical philosophy The selected papers 16 full papers 9 short papers 2 papers based on panel sessions and 2 on invited presentations cover a wide range of topics including database semantics knowledge representation software engineering www information management context based information retrieval ontology image databases temporal and spatial databases document data management process management cultural modelling and many others Covering many aspects of system modelling and optimization this book will be of interest to all those working in the field of information modelling and knowledge bases

Information Modelling and Knowledge Bases XXXI Ajantha Dahanayake,Janne Huiskonen,Yasushi Kiyoki,Bernhard Thalheim,Hannu Jaakkola,Naofumi Yoshida,2020-01-06 Information modeling and knowledge bases have become an important area of academic and industry research in the 21st century addressing complexities of modeling that reach beyond the traditional borders of information systems and academic computer science research This book presents 32 reviewed selected and updated papers delivered at the 29th International Conference on Information Modeling and Knowledge Bases EJC2019 held in Lappeenranta Finland from 3 to 7 June 2019 In addition two papers based on the keynote presentations and one paper edited from the discussion of the panel session are included in the book The conference provided a forum to exchange scientific results and experience and attracted academics and practitioners working with information and knowledge The papers cover a wide range of topics ranging from knowledge discovery through conceptual and linguistic modeling knowledge and information modeling and discovery cross cultural communication and social computing environmental modeling and engineering and multimedia data modeling and systems to complex scientific problem solving The conference presentation sessions Learning and Linguistics Systems and Processes Data and Knowledge Representation Models and Interface Formalizations and Reasoning Models and Modeling Machine Learning Models and Programming Environment and Predictions and Emotion Modeling and Social Networks reflect the main themes of the conference The book also includes 2 extended publications of keynote addresses Philosophical Foundations of Conceptual Modeling and Sustainable Solid Waste

Management using Life Cycle Modeling for Environmental Impact Assessment as well as additional material covering the discussion and findings of the panel session Providing an overview of current research in the field the book will be of interest to all those working with information systems information modeling and knowledge bases **Information Modelling and Knowledge Bases XXIV** P. Vojtáš,Y. Kiyoki,H. Jaakkola,2013-01-08 With the growth in our reliance on information systems and computer science information modeling and knowledge bases have become a focus for academic attention and research The amount and complexity of information the number of levels of abstraction and the size of databases and knowledge bases all continue to increase and new challenges and problems arise every day This book is part of the series Information Modelling and Knowledge Bases which concentrates on a variety of themes such as the design and specification of information systems software engineering and knowledge and process management Attention is also paid to theoretical disciplines including cognitive science artificial intelligence logic linguistics and analytical philosophy Selected papers cover many areas of information modeling and knowledge bases namely theory of concepts database semantics knowledge representation software engineering WWW information management context based information retrieval ontological technology image databases temporal and spatial databases document data management process management cultural modeling social networks personalization interfaces data mining and many others The book will be of interest to all those involved in research and application in these academic areas *Information Modelling and Knowledge Bases XXVIII* H. Jaakkola,B. Thalheim,Y. Kiyoki,2017-01-03 Information modelling and knowledge bases are now essential not only to academics working in computer science but also wherever information technology is applied This book presents papers from the 26th International Conference on Information Modelling and Knowledge Bases formerly the European Japanese Conference EJC which took place in Tampere Finland in June 2016 The conference provides a platform to bring together researchers and practitioners working with information modelling and knowledge bases and the 33 accepted papers cover topics including conceptual modelling knowledge and information modelling and discovery linguistic modelling cross cultural communication and social computing environmental modelling and engineering and multimedia data modelling and systems All papers were improved and resubmitted for publication after the conference Covering state of the art research and practice the book will be of interest to all those whose work involves information modelling and knowledge bases

Information Modelling and Knowledge Bases XXV IOS Press,2014-01-14 Because of our ever increasing use of and reliance on technology and information systems information modelling and knowledge bases continue to be important topics in those academic communities concerned with data handling and computer science As the information itself becomes more complex so do the levels of abstraction and the databases themselves This book is part of the series Information Modelling and Knowledge Bases which concentrates on a variety of themes in the important domains of conceptual modeling design and specification of information systems multimedia information modeling multimedia systems ontology software engineering

knowledge and process management knowledge bases cross cultural communication and context modeling Theoretical disciplines including cognitive science artificial intelligence logic linguistics and analytical philosophy also receive attention The selected papers presented here cover many areas of information modeling and knowledge bases including theory of concepts semantic computing data mining context based information retrieval ontological technology image databases temporal and spatial databases document data management software engineering cross cultural computing environmental analysis social networks WWW information management and many others This new issue also contains papers initiated by the panels on Cross cultural Communication with Icons and Images and Conceptual Modelling of Collaboration for Information Systems The book will be of interest to all those interested in advances in research and applications in the academic disciplines concerned

Information Modelling and Knowledge Bases XXXV Hannu Jaakkola, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2024-02-15 The volume and complexity of information together with the number of abstraction levels and the size of data and knowledge bases grow continually Data originating from diverse sources involves a combination of data from traditional legacy sources and unstructured data requiring backwards modeling meanwhile information modeling and knowledge bases have become important contributors to 21st century academic and industrial research This book presents the proceedings of EJC 2023 the 33rd International Conference on Information Modeling and Knowledge Bases held from 5 to 9 June 2023 in Maribor Slovenia The aim of the EJC conferences is to bring together experts from different areas of computer science and from other disciplines that share the common interest of understanding and solving the problems of information modeling and knowledge bases and applying the results of research to practice The conference constitutes a research forum for the exchange of results and experiences by academics and practitioners dealing with information and knowledge bases The topics covered at EJC 2023 encompass a wide range of themes including conceptual modeling knowledge and information modeling and discovery linguistic modeling cross cultural communication and social computing environmental modeling and engineering and multimedia data modeling and systems In the spirit of adapting to the changes taking place in these areas of research the conference was also open to new topics related to its main themes Providing a current overview of progress in the field this book will be of interest to all those whose work involves the use of information modeling and knowledge bases

Information Modelling and Knowledge Bases XXXIII Marina Tropmann-Frick, Hannu Jaakkola, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2022-02-15 The technology of information modelling and knowledge bases addresses the complexities of modelling in digital transformation and digital innovation reaching beyond the traditional borders of information systems and academic research in computer science This book presents 21 papers from the 31st International conference on Information Modeling and Knowledge Bases EJC 2021 hosted by the Department Informatik of the University of Applied Sciences in Hamburg Germany and held as a virtual event from 7 to 9 September 2021 due to restrictions caused by the Corona virus The conference provides a research forum for

academics and practitioners dealing with information and knowledge to exchange scientific results and experiences and EJC 2021 covered a wide range of themes extending knowledge discovery through conceptual modeling knowledge and information modeling and discovery linguistic modeling cross cultural communication and social computing environmental modeling and engineering and multimedia data modeling and systems As always the conference was open to new topics related to its main themes meaning the content emphasis of the EJC conferences is always able to adapt to the changes taking place in the research field and the 21 papers included here after rigorous review selection and upgrading are the result of presentations comments and discussions during the conference Providing an up to the minute overview of the technology of information modeling and knowledge bases the book will be of interest to all those working in the field

Information Modelling and Knowledge Bases XXXIV Hannu Jaakkola, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2023-02-15 The amount and complexity of information is continually growing and information modeling and knowledge bases have become important contributors to technology and to academic and industrial research in the 21st century They address the complexities of modeling in digital transformation and digital innovation reaching beyond the traditional borders of information systems and academic computer science research This book presents the proceedings of EJC 2022 the 32nd International conference on Information Modeling and Knowledge Bases held as a hybrid event due to restrictions related to the Corona virus pandemic in Hamburg Germany from 30 May to 3 June 2022 The aim of the conference is to bring together experts from different areas of computer science and other disciplines with a common interest in understanding and solving the problems of information modeling and knowledge bases and applying the results of research to practice The conference has always been open to new topics related to its main themes and the content emphasis of the conferences have changed through the years according to developments in the research field so philosophy and logic cognitive science knowledge management linguistics and management science as well as machine learning and AI are also relevant areas This book presents 19 reviewed and selected papers covering a wide range of topics upgraded as a result of comments and discussions during the conference Providing a current overview of recent developments the book will be of interest to all those using information modeling and knowledge bases as part of their work

Information Modelling and Knowledge Bases XXX Tatiana Endrjukaite, Alexander Dudko, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2019-01-15 Information modeling and knowledge bases have become essential subjects in the last three decades not only in academic communities related to information systems and computer science but also in the areas of business where information technology is applied This book presents the proceedings of the 28th International Conference on Information Modelling and Knowledge Bases EJC2018 held in Riga Latvia from 4 8 June 2018 The aim of the conference was to bring together experts with a common interest in the understanding and solving of problems on information modelling and knowledge bases as well as those from different areas of computer science and other disciplines who apply the results of

research to practice The 39 accepted papers collected here cover a variety of topics including conceptual modeling knowledge and information modeling and discovery linguistic modeling cross cultural communication and social computing multimedia data modeling and systems and environmental modeling and engineering The book will be of interest to researchers and practitioners alike and to anyone wanting a better understanding of current advances in information technology

Information Modelling and Knowledge Bases XXI Tatjana Welzer Družovec, Hannu Jaakkola, Yasushi Kiyoki, Takehiro Tokuda, Naofumi Yoshida, 2010 Information modelling and knowledge bases have become crucially important subjects in the last few decades They continue to be increasingly relevant not only in academic communities but in every area of commerce and society where information technology

Data Analytics and Management in Data Intensive Domains Alexander Elizarov, Boris Novikov, Sergey Stupnikov, 2020-07-13 This book constitutes the post conference proceedings of the 21st International Conference on Data Analytics and Management in Data Intensive Domains DAMDID RCDL 2019 held in Kazan Russia in October 2019 The 11 revised full papers presented together with four invited papers were carefully reviewed and selected from 52 submissions The papers are organized in the following topical sections advanced data analysis methods data infrastructures and integrated information systems models ontologies and applications data analysis in astronomy information extraction from text distributed computing data science for education

Model and Data Engineering Klaus-Dieter Schewe, Neeraj Kumar Singh, 2019-10-21 This book constitutes the refereed proceedings of the 9th International Conference on Model and Data Engineering MEDI 2019 held in Toulouse France in October 2019 The 11 full papers and 7 short papers presented in this book were carefully reviewed and selected from 41 submissions The papers cover broad research areas on both theoretical systems and practical aspects Some papers include mining complex databases concurrent systems machine learning swarm optimization query processing semantic web graph databases formal methods model driven engineering blockchain cyber physical systems IoT applications and smart systems

Information Modelling and Knowledge Bases XXIX V. Sornlertlamvanich, P. Chawakitchareon, A. Hansuebsai, 2018-02-09 Information modelling and knowledge bases have become ever more essential in recent years because of the need to handle and process the vast amounts of data which now form part of everyday life The machine to machine communication of the Internet of Things IoT in particular can generate unexpectedly large amounts of raw data This book presents the proceedings of the 27th International Conference on Information Modelling and Knowledge Bases EJC2017 held in Krabi Thailand in June 2017 The EJC conferences originally began in 1982 as a co operative initiative between Japan and Finland but have since become a world wide research forum bringing together researchers and practitioners in information modelling and knowledge bases for the exchange of scientific results and achievements Of the 42 papers submitted 29 were selected for publication here and these cover a wide range of information modelling topics including the theory of concepts semantic computing data mining context based information retrieval ontological technology image databases temporal and spatial databases document data management software

engineering cross cultural computing environmental analysis social networks and WWW information The book will be of interest to all those whose work involves dealing with large amounts of data

Intelligent Agents for Telecommunications Applications Sahin Albayrak, 1998 Intelligent agent and distributed AI DAI approaches attach specific conditions to cooperative exchanges between intelligent systems that go far beyond simple functional interoperability Ideally systems that pursue local or global goals coordinate their actions share knowledge and resolve conflicts during their interactions within groups of similar or dissimilar agents can be viewed as cooperative coarse grained systems The infrastructure of telecommunications is a world in transition There are a number of trends that contribute to this convergence of traditional telephony and data network worlds blurring of boundaries between public and private networks complementary evolution of wireline wireless and cable network infrastructures the emergence of integrated broadband multimedia networks and of course the information superhighway Up to now despite the effort that has gone into this area the field of intelligent agents research has not yet led to many fielded systems Telecommunications applications pose strong requirements to agents such as reliability real time performance openness security management and other integrated management and mobility In order to fulfil their promise intelligent agents need to be fully dependable and typically require an integrated set of capabilities This is the challenge that exists for intelligent agents technology in this application domain

ECAI 2012 C. Bessiere, 2012-08-15 Artificial intelligence AI plays a vital part in the continued development of computer science and informatics The AI applications employed in fields such as medicine economics linguistics philosophy psychology and logical analysis not forgetting industry are now indispensable for the effective functioning of a multitude of systems This book presents the papers from the 20th biennial European Conference on Artificial Intelligence ECAI 2012 held in Montpellier France in August 2012 The ECAI conference remains Europe s principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI as well as to demonstrate innovative applications and uses of advanced AI technology ECAI 2012 featured four keynote speakers an extensive workshop program seven invited tutorials and the new Frontiers of Artificial Intelligence track in which six invited speakers delivered perspective talks on particularly interesting new research results directions and trends in Artificial Intelligence or in one of its related fields The proceedings of PAIS 2012 and the System Demonstrations Track are also included in this volume which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI

Conceptual Modeling Perspectives Jordi Cabot, Cristina Gómez, Oscar Pastor, Maria Ribera Sancho, Ernest Teniente, 2017-10-12 Conceptual modeling has always been one of the main issues in information systems engineering as it aims to describe the general knowledge of the system at an abstract level that facilitates user understanding and software development This collection of selected papers provides a comprehensive and extremely readable overview of what conceptual modeling is and perspectives on making it more and more relevant in our society It covers topics like modeling

the human genome blockchain technology model driven software development data integration and wiki like repositories and demonstrates the general applicability of conceptual modeling to various problems in diverse domains Overall this book is a source of inspiration for everybody in academia working on the vision of creating a strong fruitful and creative community of conceptual modelers With this book the editors and authors want to honor Prof Antoni Oliv for his enormous and ongoing contributions to the conceptual modeling discipline It was presented to him on the occasion of his keynote at ER 2017 in Valencia a conference that he has contributed to and supported for over 20 years Thank you very much to Antoni for so many years of cooperation and friendship

New Directions in AI Planning Malik Ghallab, Alfredo Milani, 1996

Modelling to Program Ajantha Dahanayake, Oscar Pastor, Bernhard Thalheim, 2021-03-30 This book constitutes revised selected papers from the Second International Workshop on Modelling to Program M2P 2020 held in Lappeenranta Finland in March 2020 The 10 papers presented were thoroughly reviewed and selected from 24 submissions The papers provide a discussion on novel approaches to programming based on modelling approaches such as model driven development MDE MDA MDD and conceptual model programming and their future developments The topics of the papers include notions of models that can be understood and used as programs models at runtime advanced conceptual modelling conceptual model programming modelling foundation transformation of models to programs model suites ensembles for programmers modelling as the first step to programming and its revisions advanced model driven programming and software modernisation modelling in applications

Artificial Intelligence in Education Ben Du Boulay, R. Mizoguchi, 1997 The theme of this book is Knowledge and Media in Learning Systems and papers that explore the emerging roles of intelligent multimedia and distributed technologies as well as computer supported collaboration within that theme are included The spread of topics is very wide encompassing both well established areas such as student modelling as well as more novel topics such as distributed intelligent tutoring on the World Wide Web Far from undermining the need to understand how learning and teaching interact the newer media continue to emphasise the interdependence of these two processes Collaboration and tools for collaboration are the major topics of interest Understanding how human learners collaborate how peer tutoring works and how the computer can play a useful role as either a more able or even a less able learning partner are all explored here

Perspectives in Business Informatics Research Andrzej Kobylinski, Andrzej Sobczak, 2013-08-23 This book constitutes a collection of selected contributions from the 12th International Conference on Perspectives in Business Informatics Research BIR 2013 held in Warsaw Poland in September 2013 Overall 54 submissions were rigorously reviewed by 41 members of the Program Committee representing 21 countries As a result 19 full and 5 short papers from 12 countries have been selected for publication in this volume This book also includes the two keynotes by Witold Abramowicz and Bernhard Thalheim The papers cover many aspects of business information research and have been organized in topical sections on business process management enterprise and knowledge architectures organizations and information systems development

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