

Frontiers
in
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INFORMATION MODELLING AND KNOWLEDGE BASES XXV

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Information Modelling And Knowledge Bases Xxv Frontiers In Artificial Intelligence And Applications

**Tatjana Welzer Družovec, Hannu
Jaakkola, Yasushi Kiyoki, Takehiro
Tokuda, Naofumi Yoshida**

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

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 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 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 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 XXVI B. Thalheim, H. Jaakkola, Y. Kiyoki, 2014-12-18 Within the last three decades information modelling and knowledge bases have become essential subjects not only for academic communities related to information systems and computer science but also for businesses where information technology is applied This book presents the proceedings of EJC 2014 the 24th International Conference on Information Modelling and Knowledge Bases held in Kiel Germany in June 2014 The main themes of the conference were conceptual modelling including modelling and specification languages domain specific conceptual modelling and validating and communicating conceptual models knowledge and information modelling and discovery including knowledge representation and knowledge management advanced data mining and analysis methods as well as information recognition and information modelling linguistics modelling cross cultural communication and social computing environmental modelling and multimedia data modelling and systems which includes modelling multimedia information and knowledge content based multimedia data management content based multimedia retrieval as well as privacy and context enhancing technologies This book will be of interest to all those who wish to keep abreast of new developments in the field of information modelling and knowledge bases

Information Modelling and Knowledge Bases XVI Yasushi Kiyoki, Y. Kiyoki, Benkt Wangler, Hannu Jaakkola, Hannu Kangassalo, 2005 Modelling of information is necessary in developing information systems Information is acquired from many sources by using various methods and tools It must be recognized conceptualized and conceptually organized efficiently so that users can easily understand and use it Modelling is needed to understand explain organize predict and reason on information It also helps to master the role and functions of components of information systems Modelling can be performed with many different purposes in mind at different levels and by using different notions and different background theories It can be made by emphasizing users conceptual understanding of information on a domain level on an algorithmic level or on representation levels On each level the objects and structures used on them are different and different rules govern the behavior on them Therefore the notions rules theories languages and methods for modelling on different levels are also different It will be useful if we can develop theories and methodologies

for modelling to be used in different situations because databases knowledge bases and repositories in knowledge management systems developed on the basis of models and used to technically store information are growing day by day In this publication the interest is focused on modelling of information and one of the central topics is modelling of time Scientific and technical papers of high quality are brought together in this book Information Modelling and Knowledge Bases XXVII Tatjana Welzer, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2016-02-15 Information modeling has become an increasingly important topic for researchers designers and users of information systems In the course of the last three decades information modeling and knowledge bases have become essential not only with regard to information systems and computer science in an academic context but also with the use of information technology for business purposes This book presents 29 papers selected and upgraded from those delivered at the 25th International Conference on Information Modelling and Knowledge Bases EJC 2015 held in Maribor Slovenia in June 2015 The aim of the conference is to bring together experts from different areas of computer science and other disciplines including philosophy and logic cognitive science knowledge management linguistics and management science with a view to understanding and solving problems and applying research results to practice Areas covered by the papers include 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 The book will be of interest to all those whose work involves the development or 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 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

Information Modelling and Knowledge Bases XXXII Marina Tropmann-Frick, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2021-01-15 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 X Hannu Jaakkola, H. Kangassalo, Eiji Kawaguchi, 1999 LISTENING TO MUSIC is designed to help develop and refine the listening skills of your students and inspire a lifelong appreciation of music Author and award winning scholar teacher Craig Wright who has taught Music Appreciation courses for more than 35 years is consistently praised by reviewers and other professors for his unparalleled accuracy and his clear direct conversational style Throughout the book Wright connects with today's students by incorporating comparisons between pop and classical music and by using examples from popular artists to illustrate core concepts This chronological text succinctly covers traditional Western music from medieval to modern discussing examples from each historical period within their social contexts and the construction of each piece Later chapters cover popular music its impact on musical globalization and comparisons between Western and non Western music LISTENING TO MUSIC is the only text that provides Craig Wright's own Listening Exercises in the book and online which help students focus on important musical elements and episodes A free CD packaged with each printed copy of the text includes all of the musical examples for the Part 1 listening exercises A full set of optional online student resources includes

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Knowledge-based Software Engineering Maria Virvou,Taichi Nakamura,2008 Addresses various topics in the context of knowledge based software engineering including challenges that have arisen in this area of research This book includes topics such as knowledge based requirements engineering domain analysis and modeling development processes for knowledge based applications and knowledge acquisition 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

New Trends in Software Methodologies, Tools and Techniques A. Selamat,H. Fujita,H. Haron,2014-08-29 Software is the essential enabling means for science and the new economy It helps us to create a more reliable flexible and robust society But software often falls short of our expectations Current methodologies tools and techniques remain expensive and are not yet sufficiently reliable while many promising approaches have proved to be no more than case by case oriented methods This book contains extensively reviewed papers from the thirteenth International Conference on New Trends in software Methodology Tools and Techniques SoMeT_14 held in Langkawi Malaysia in September 2014 The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business The emphasis has been on human centric software methodologies end user development techniques and emotional reasoning for an optimally harmonized performance between the design tool and the user Topics covered include the handling of cognitive issues in software development to adapt it to the user's mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models This book provides an opportunity for the software science community to show where we are today and where the future may take us

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

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

Reusable Components for Knowledge Modelling Enrico Motta,E. Motta,1999

Knowledge-based Software Engineering Pavol Návrát,Haruki Ueno,1998 This text collects contributions from different countries to a wide range of topics in software engineering Special emphasis is given to application of knowledge base methods to software engineering problems The papers tackle such areas as architecture of software and design patterns

Qualitative Spatial Reasoning M. Teresa Escrig,Francisco Toledo,1998 With the aim of automatically reasoning with spatial aspects in a cognitive way several qualitative models have been developed recently in the Qualitative Spatial Reasoning field However there is no model to reason with several spatial aspects in a uniform way Moreover most of

these models simplify spatial objects to points In this book we present a novel approach for integrating the qualitative concepts of orientation distance and cardinal directions using points as well as extended objects as primitive of reasoning based on Constraint Logic Programming The resulting model has been applied to build a qualitative Navigation Simulator on the structured environment of the city of Castellon

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