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Editors

Theory and Applications of Ontology

Computer Applications

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Theory and Applications of Ontology: Computer Applications Roberto Poli, Michael Healy, Achilles

Kameas, 2010-09-02 Ontology was once understood to be the philosophical inquiry into the structure of reality the analysis and categorization of what there is Recently however a field called ontology has become part of the rapidly growing research industry in information technology The two fields have more in common than just their name Theory and Applications of Ontology is a two volume anthology that aims to further an informed discussion about the relationship between ontology in philosophy and ontology in information technology It fills an important lacuna in cutting edge research on ontology in both fields supplying stage setting overview articles on history and method presenting directions of current research in either field and highlighting areas of productive interdisciplinary contact Theory and Applications of Ontology Computer Applications presents ontology in ways that philosophers are not likely to find elsewhere The volume offers an overview of current research in ontology distinguishing basic conceptual issues domain applications general frameworks and mathematical formalisms It introduces the reader to current research on frameworks and applications in information technology in ways that are sure to invite reflection and constructive responses from ontologists in philosophy

Theory and Applications of Ontology Roberto Poli, Johanna Seibt, Michael Healy, Achilles Kameas, 2010-12-13 Ontology is back at the forefront of philosophy science and technology These days ontology comes in at least two main fashions the traditional philosophical understanding of ontology has been recently flanked by a new computer based understanding of ontology The current resurgence of interest in ontological issues displays a number of novel features both among philosophers and among information technologists Broadly speaking the two research communities of philosophers and engineers have still not found a way to relate to each other systematically One side is perhaps too theoretical the other too pragmatic However in dynamic terms one easily foresees mounting social and institutional pressure for the development of tools able to model fragments of reality in terms that are both adequate and efficient The two volumes of TAO intend to play a role in paving the way for a better mutual understanding between engineers and philosophers Since the two communities are still very different as to their own languages conceptual tools and problem sets we devised two different volumes one dedicated to the philosophical understanding of ontology and one to the computer based understanding of ontologies Both volumes contain both papers describing the state of the art in their respective topics and papers addressing forefront innovative and possibly controversial topics

Software Technologies Pascal Lorenz, Jorge Cardoso, Leszek A. Maciaszek, Marten van Sinderen, 2016-02-24 This book constitutes the thoroughly refereed proceedings of the 10th International Joint Conference on Software Technologies ICSOFT 2015 held in Colmar France in July 2015 The 23 revised full papers presented were carefully reviewed and selected from 117 submissions The papers are organized around the following conference tracks enterprise software technologies software project management software engineering methods and techniques distributed and mobile software systems

Database Theory and Application, Bio-Science and Bio-Technology Yanchun Zhang, Alfredo Cuzzocrea, Jianhua Ma, Kyo-il Chung, Tughrul Arslan, Xiaofeng Song, 2010-11-25 Welcome to the proceedings of the 2010 International Conferences on Database Theory and Application DTA 2010 and Bio Science and Bio Technology BSBT 2010 two of the partnering events of the Second International Mega Conference on Future Generation Information Technology FGIT 2010 DTA and BSBT bring together researchers from academia and industry as well as practitioners to share ideas problems and solutions relating to the multifaceted aspects of databases data mining and biomedicine including their links to computational sciences mathematics and information technology In total 1 630 papers were submitted to FGIT 2010 from 30 countries which includes 175 papers submitted to DTA BSBT 2010 The submitted papers went through a rigorous reviewing process 395 of the 1 630 papers were accepted for FGIT 2010 while 40 papers were accepted for DTA BSBT 2010 Of the 40 papers 6 were selected for the special FGIT 2010 volume published by Springer in the LNCS series 31 papers are published in this volume and 3 papers were withdrawn due to technical reasons We would like to acknowledge the great effort of the DTA BSBT 2010 International Advisory Boards and members of the International Program Committees as well as all the organizations and individuals who supported the idea of publishing this volume of proceedings including SERSC and Springer Also the success of these two conferences would not have been possible without the huge support from our sponsors and the work of the Chairs and Organizing Committee

The What and How of Modelling Information and Knowledge C. Maria Keet, 2023-11-17 The main aim of this book is to introduce a group of models and modelling of information and knowledge comprehensibly Such models and the processes for how to create them help to improve the skills to analyse and structure thoughts and ideas to become more precise to gain a deeper understanding of the matter being modelled and to assist with specific tasks where modelling helps such as reading comprehension and summarisation of text The book draws ideas and transferrable approaches from the plethora of types of models and the methods techniques tools procedures and methodologies to create them in computer science This book covers five principal declarative modelling approaches to model information and knowledge for different yet related purposes It starts with entry level mind mapping to proceed to biological models and diagrams onward to conceptual data models in software development and from there to ontologies in artificial intelligence and all the way to ontology in philosophy Each successive chapter about a type of model solves limitations of the preceding one and turns up the analytical skills a notch These what and how for each type of model is followed by an integrative chapter that ties them together comparing their strengths and key characteristics ethics in modelling and how to design a modelling language In so doing we ll address key questions such as what type of models are there How do you build one What can you do with a model Which type of model is best for what purpose Why do all that modelling The intended audience for this book is professionals students and academics in disciplines where systematic information modelling and knowledge representation is much less common than in computing such as in commerce biology

law and humanities And if a computer science student or a software developer needs a quick refresher on conceptual data models or a short solid overview of ontologies then this book will serve them well

Theory and Applications of Ontology: Philosophical Perspectives Roberto Poli, Johanna Seibt, 2010-08-28 Ontology was once understood to be the philosophical inquiry into the structure of reality the analysis and categorization of what there is Recently however a field called ontology has become part of the rapidly growing research industry in information technology The two fields have more in common than just their name Theory and Applications of Ontology is a two volume anthology that aims to further an informed discussion about the relationship between ontology in philosophy and ontology in information technology It fills an important lacuna in cutting edge research on ontology in both fields supplying stage setting overview articles on history and method presenting directions of current research in either field and highlighting areas of productive interdisciplinary contact Theory and Applications of Ontology Philosophical Perspectives presents ontology in philosophy in ways that computer scientists are not likely to find elsewhere The volume offers an overview of current research traditions in ontology contrasting analytical phenomenological and hermeneutic approaches It introduces the reader to current philosophical research on those categories of everyday and scientific reasoning that are most relevant to present and future research in information technology

Theory and Engineering of Complex Systems and Dependability Wojciech Zamojski, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, Janusz Kacprzyk, 2015-06-14 Building upon a long tradition of scientific conferences dealing with problems of reliability in technical systems in 2006 Department of Computer Engineering at Wrocław University of Technology established DepCoS RELCOMEX series of events in order to promote a comprehensive approach to evaluation of system performability which is now commonly called dependability Contemporary complex systems integrate variety of technical information software and human users administrators and management resources Their complexity comes not only from involved technical and organizational structures but mainly from complexity of information processes that must be implemented in specific operational environment data processing monitoring management etc In such a case traditional methods of reliability evaluation focused mainly on technical levels are insufficient and more innovative multidisciplinary methods of dependability analysis must be applied Selection of submissions for these proceedings exemplify diversity of topics that must be included in such analyses tools methodologies and standards for modelling design and simulation of the systems security and confidentiality in information processing specific issues of heterogeneous today often wireless computer networks or management of transportation networks In addition this edition of the conference hosted the 5th CrISS DESSERT Workshop devoted to the problems of security and safety in critical information systems Proceedings of the 28th Annual International Computer Software and Applications Conference, 2004 COMPSAC 2004 explores a broad and diverse range of both topics from basic methodology and software process design to such practical concerns as liability risk and insurance issues Its second volume of Workshop papers cover software cybernetics quality assurance and testing of

Web based applications and biological data management **Special Papers** ,1934 *Information Technology Applications in Industry II* Prasad Yarlagadda,Su Fen Yang,Keon Myung Lee,2013-09-03 Selected peer reviewed papers from the 2013 2nd International Conference on Information Technology and Management Innovation ICITMI 2013 July 23 24 2013 Zhuhai China

ACM Workshop on Interdisciplinary Software Engineering Research ,2004 *Library & Information Science Abstracts* ,2006 Data and Metadata Reporting and Presentation Handbook Denis Ward,Organisation for Economic Co-operation and Development,2007-07-03 This handbook contains guidelines and recommended best practice for the presentation of statistical data and metadata disseminated by national agencies and international organisations in various media and embodied in existing international statistical standards where they exist It also sets out for the first time a standard set of terminologies and guidelines for the presentation of growth rates indices and seasonally adjusted data developed by the OECD Short term Economic Statistics Working Party *Proceedings of the Sixth International Conference on Advances in Pattern Recognition* Pinakpani Pal,2007 Contains a series of ICAPR proceedings on the advances of different facets of pattern recognition This work tackles open problems in the classic fields of image and video processing document analysis and multimedia object retrieval as well as more advanced topics in biometrics speech and signal analysis Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conferences--2005 ,2005 A KWIC Index of Publications in Numerical Taxonomy in the Period 1948-1968 Herbert Maisel,L. R. Hill,1969 *Proceedings / 10th Working Conference on Reverse Engineering, WCRE 2003 : Victoria, B.C., Canada, 13 - 16 November 2003* Working Conference on Reverse Engineering,2003 *Leonardo* ,1999 **Proceedings of the ASME Computers and Information in Engineering Division** ,2005 **Real World Semantic Web Applications** Vipul Kashyap,Leon Shklar,2002 This work covers commercial applications that make immediate advances and gains insight into the evolution of Semantic Web technology It focuses on real applications attacking real world problems This potentially means pragmatic decisions caused by the limitations of today s technology

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