

Comparing Formal Specification Languages for Complex Reasoning Systems

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Formal Specification Of Complex Reasoning Systems

Paul J.W. ten Hagen, Paul J. Veerkamp



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Formal Specification of Complex Reasoning Systems Jan Treur, Thomas Wetter, 1993 Comparing Formal Specification Languages for Complex Reasoning Systems Frank van Harmelen (et al.), 1993 **Comparing Formal Specification Languages for Complex Reasoning Systems** Linköping University. Dept. of Computer and Information Science, Frank van Harmelen, Ramon Lopez de Mantaras, Jacek Malec, Jan Treur, 1993 In Section 4 we identify where already a certain consensus can be found points are discussed that are in common for most of the languages modularity local declarativeness multi level view on a specification distinct specification of static and dynamic aspects separation of generic and domain specific parts of a specification object meta distinctions in specifications the level of specification Moreover in section 4 2 the major open problems are presented

Dynamics and Management of Reasoning Processes John-Jules Ch. Meyer, Jan Treur, 2013-04-17 This volume the 6th volume in the DRUMS Handbook series is part of the after math of the successful ESPRIT project DRUMS Defeasible Reasoning and Uncertainty Management Systems which took place in two stages from 1989 1996 In the second stage 1993 1996 a work package was introduced devoted to the topics Reasoning and Dynamics covering both the topics of Dynamics of Reasoning where reasoning is viewed as a process and Reasoning about Dynamics which must be understood as pertaining to how both designers of and agents within dynamic systems may reason about these systems The present volume presents work done in this context This work has an emphasis on modelling and formal techniques in the investigation of the topic Reasoning and Dynamics but it is not mere theory that occupied us Rather research was aimed at bridging the gap between theory and practice Therefore also real life applications of the modelling techniques were considered and we hope this also shows in this volume which is focused on the dynamics of reasoning processes In order to give the book a broader perspective we have invited a number of well known researchers outside the project but working on similar topics to contribute as well We have very pleasant recollections of the project with its lively workshops and other meetings with the many sites and researchers involved both within and outside our own work package

Agent-Based Defeasible Control in Dynamic Environments John-Jules Ch. Meyer, Jan Treur, 2013-03-09 This volume the 7th volume in the DRUMS Handbook series is part of the aftermath of the successful ESPRIT project DRUMS Defeasible Reasoning and Uncertainty Management Systems which took place in two stages from 1989 1996 In the second stage 1993 1996 a work package was introduced devoted to the topics Reasoning and Dynamics covering both the topics of Dynamics of Reasoning where reasoning is viewed as a process and Reasoning about Dynamics which must be understood as pertaining to how both designers of and agents within dynamic systems may reason about these systems The present volume presents work done in this context extended with some work done by outstanding researchers outside the project on related issues While the previous volume in this series had its focus on the dynamics of reasoning processes the present volume is more focused on reasoning about dynamics viz how human and artificial agents reason about systems in dynamic environments in

order to control them In particular we consider modelling frameworks and generic agent models for modelling these dynamic systems and formal approaches to these systems such as logics for agents and formal means to reason about agent based and compositional systems and action change more in general We take this opportunity to mention that we have very pleasant recollections of the project with its lively workshops and other meetings with the many sites and researchers involved both within and outside our own work package International Conference on Multi Agent Systems IEEE Computer Society,1998

This volume on multi agent systems is suitable for researchers professors practitioners students and other computing professionals **FME '96: Industrial Benefit and Advances in Formal Methods** Marie-Claude Gaudel,Jim

Woodcock,1996-03-06 This book presents the refereed proceedings of the Third International Symposium of Formal Methods Europe FME 96 held in Oxford UK in March 1996 FME 96 was co sponsored by IFIP WG 14 3 and devoted to the application and demonstrated industrial benefit of formal methods their new horizons and strengthened foundations The 35 full revised papers included were selected from a total of 103 submissions also included are three invited papers The book addresses all relevant aspects of formal methods from the point of view of the industrial R D professional as well as from the academic viewpoint and impressively documents the significant progress in the use of formal methods for the solution of real world problems **Encyclopedia of Microcomputers** Allen Kent,James G. Williams,1999-06-18 An Analysis of the Pre Physical

Database Design Heuristics to Thermal Investigations of Ics and Microstructures **Logics in Artificial Intelligence** Craig MacNish,David Pearce,Luis M. Pereira,1994-08-10 This book constitutes the proceedings of the 1994 European Workshop on Logics in Artificial Intelligence held at York UK in September 1994 The 24 papers presented were selected from a total of 79 submissions in addition there are two abstracts of invited talks and one full paper of the invited presentation by Georg Gottlob The papers point out that with the depth and maturity of formalisms and methodologies available in AI today logics provide a formal basis for the study of the whole field of AI The volume offers sections on nonmonotonic reasoning automated reasoning logic programming knowledge representation and belief revision **Intelligent CAD Systems III**

Paul J.W. ten Hagen,Paul J. Veerkamp,2012-12-06 This book contains a selection of revised versions of papers presented at the Third Eurographics Workshop on Intelligent CAD Systems which was held at Hotel Opduin on the island of Texel in The Netherlands April 3 7 1989 The workshop theme was Practical Experience and Evaluation It included five paper presentation sessions each followed by a discussion The workshop closed with a general discussion The book is therefore divided into five parts design process system architecture languages geometric reasoning and user interface A report on the discussion session written by the session s moderator concludes each part These reports are not intended to be exact records of the discussion but rather the moderators summary of their contents The aim of the workshop was to share the experience the participants gained by developing intelligent CAD Computer Aided Design systems and to evaluate the developed systems to determine which features were still lacking The workshop was organized as the last one in a series of three workshops under

the same title The first workshop focused on theoretical and methodological aspects resulting in a sound theoretical basis for intelligent CAD systems Implementational issues were discussed at the second workshop paying attention to systems developed with reference to this basis The experience and evaluation showed a dual outcome Firstly it resulted in the development of a new generation of intelligent CAD systems Secondly it led us to the development of new theories for intelligent CAD *Proceedings of the International Workshop on Formal Specification Methods for Complex Reasoning Systems at ECAI-92, August 3 1992, Vienna* Vrije Universiteit Amsterdam. Artificial Intelligence Group,1992

Intelligent Agents III. Agent Theories, Architectures, and Languages Michael J. Wooldridge,Nick Jennings,1997-01-22 Intelligent agents are computer systems that are capable of flexible autonomous action in dynamic typically multi agent domains Over the past few years the computer science community has begun to recognise that the technology of intelligent agents provides the key to solving a range of complex software application problems for which traditional software engineering tools and techniques offer no solution This book the third in a series represents the state of the art in the science of agent systems It is based on papers presented at the 3rd workshop on Agent Theories Architectures and Languages ATAL 96 held in conjunction with the European Conference on Artificial Intelligence ECAI 96 in Budapest Hungary in August 1996 It is essential reading for anyone interested in this vital new technology **Ontology-Based Multi-Agent Systems** Maja Hadzic,Elizabeth J.

Chang,Pornpit Wongthongtham,2009-06-25 During the last two decades the idea of Semantic Web has received a great deal of attention An extensive body of knowledge has emerged to describe technologies that seek to help us create and use aspects of the Semantic Web Ontology and agent based technologies are understood to be the two important technologies here A large number of articles and a number of books exist to describe the use individually of the two technologies and the design of systems that use each of these technologies individually but little focus has been given on how one can sign systems that carryout integrated use of the two different technologies In this book we describe ontology and agent based systems individually and highlight advantages of integration of the two different and complementary technologies We also present a methodology that will guide us in the design of the tegrated ontology based multi agent systems and illustrate this methodology on two use cases from the health and software engineering domain This book is organized as follows Chapter I Current issues and the need for ontologies and agents describes existing problems associated with uncontrollable information overload and explains how ontologies and agent based systems can help address these issues Chapter II Introduction to multi agent systems defines agents and their main characteristics and features including mobility communications and collaboration between different agents It also presents different types of agents on the basis of classifications done by different authors **ICMAS--95, First International Conference on Multi-Agent Systems** Victor Lesser,1995 June 12 14 1995 San Francisco The first international conference on multiagent systems is organized as a joint effort of the North American Distributed Artificial Intelligence community the Japanese Multiagent and Cooperative

Computing community and the European Modeling Autonomous Agents in a Multiagent World community with support from AAAI and sanctioned by ECCAI The Proceedings cover a broad spectrum of perspectives including artificial life communications issues and negotiation strategies Topics cover Agent Architectures Artificial Life from a multiagent perspective Believable Agents Cooperation Coordination and Conflict Communication Issues Conceptual and Theoretical Foundations of Multiagent Systems Development and Engineering Methodologies Distributed Artificial Intelligence Distributed Consensus and Algorithms for Multiagent Interaction Distributed Search Evaluation of Multiagent Systems Integrated Testbeds and Development Environments Intelligent Agents in Enterprise Integration Systems and Similar Types of Applications Learning and Adaptation in Multiagent Systems Multiagent Cooperative Reasoning from Distributed Heterogeneous Databases Multiagent Planning and Planning for Multiagent Worlds Negotiation Strategies in both competitive and cooperative situations Organization Organizational Knowledge and Organization Self Design Practical Applications of Multiagent Systems enterprises robotics sensing manufacturing Resource Allocation in Multiagent Systems Social Structures and their Significance in Multiagent Systems User Interface Issues for Multiagent Systems Distributed for AAAI Press

Modeling and Using Context Paolo Bouquet, Luciano Serafini, Patrick Brézillon, Massimo Benerecetti, Francesca Castellani, 2003-07-31 This volume contains the papers presented at the Second International and interdisciplinary Conference on Modeling and Using Context CONTEXT 99 held in Trento Italy from 9 to 11 September 1999 CONTEXT 99 is the second in the CONTEXT series The first was held in Rio de Janeiro Brazil in 1997 The CONTEXT conference series is meant to provide an interdisciplinary forum where researchers can exchange ideas methodologies and results on context and is increasingly becoming an important reference for all people doing research on context This is testified by the larger number of research areas that are represented at CONTEXT 99 in particular Philosophy and Cognitive Psychology were not significantly present at the first conference and by the number and quality of submitted papers Specifically we received 118 papers mostly of good or excellent quality Among them 33 28% have been accepted as full papers and 21 as short papers We think it is fair to say that the 54 papers collected in this volume provide a significant picture of the international research on context currently going on The notion of context plays an important role in many areas both theoretical and applied such as Formal Logic Artificial Intelligence Philosophy Pragmatics Computational Linguistics Computer Science Cognitive Psychology

Applications of Uncertainty Formalisms Anthony Hunter, Simon D. Parsons, 2003-06-29 An introductory review of uncertainty formalisms by the volume editors begins the volume The first main part of the book introduces some of the general problems dealt with in research The second part is devoted to case studies each presentation in this category has a well delineated application problem and an analyzed solution based on an uncertainty formalism The final part reports on developments of uncertainty formalisms and supporting technology such as automated reasoning systems that are vital to making these formalisms applicable The book ends with a useful subject index There is considerable

synergy between the papers presented The representative collection of case studies and associated techniques make the volume a particularly coherent and valuable resource It will be indispensable reading for researchers and professionals interested in the application of uncertainty formalisms as well as for newcomers to the topic

Validation and Verification of Knowledge Based Systems Anca Vermesan, Frans Coenen, 2013-04-17 Knowledge based KB technology is being applied to complex problem solving and critical tasks in many application domains Concerns have naturally arisen as to the dependability of knowledge based systems KBS As with any software attention to quality and safety must be paid throughout development of a KBS and rigorous verification and validation V V techniques must be employed Research in V V of KBS has emerged as a distinct field only in the last decade and is intended to address issues associated with quality and safety aspects of KBS and to credit such applications with the same degree of dependability as conventional applications In recent years V V of KBS has been the topic of annual workshops associated with the main AI conferences such as AAI IJACI and ECAI

Validation and Verification of Knowledge Based Systems contains a collection of papers dealing with all aspects of KBS V V presented at the Fifth European Symposium on Verification and Validation of Knowledge Based Systems and Components EUROVAV 99 which was held in Oslo in the summer of 1999 and was sponsored by Det Norske Veritas and the British Computer Society's Specialist Group on Expert Systems SGES

Logic Program Synthesis and Transformation - Meta-Programming in Logic Laurent Fribourg, Franco Turini, 1994-11-30 This volume constitutes the combined proceedings of the 4th International Workshops on Logic Program Synthesis and Transformation LOPSTR 94 and on Meta Programming META 94 held jointly in Pisa Italy in June 1994 This book includes thoroughly revised versions of the best papers presented at both workshops The main topics addressed by the META papers are language extensions in support of meta logic semantics of meta logic implementation of meta logic features performance of meta logic and several applicational aspects The LOPSTR papers are devoted to unfolding folding partial deduction proofs as programs inductive logic programming automated program verification specification and programming methodologies

Problem-Solving Methods Dieter Fensel, 2003-05-15 Researchers in Artificial Intelligence have traditionally been classified into two categories the neaties and the scruffies According to the scruffies the neaties concentrate on building elegant formal frameworks whose properties are beautifully expressed by means of definitions lemmas and theorems but which are of little or no use when tackling real world problems The scruffies are described by the neaties as those researchers who build superficially impressive systems that may perform extremely well on one particular case study but whose properties and underlying theories are hidden in their implementation if they exist at all As a life long non card carrying scruffy I was naturally a bit suspicious when I first started collaborating with Dieter Fensel whose work bears all the formal hallmarks of a true neaty Even more alarming his primary research goal was to provide sound formal foundations to the area of knowledge based systems a traditional stronghold of the scruffies one of whom had famously declared it an art thus attempting to place it outside the range of the neaties and to a

large extent succeeding in doing so **The Knowledge Acquisition and Representation Language, KARL** Dieter Fensel, 2012-12-06 Within the framework of so called second generation expert systems knowledge modeling is one of the most important aspects On the one hand knowledge acquisition is no longer seen as a knowledge transfer process rather it is now considered as model construction process which is typically a cyclic and error prone process On the other hand the distinction between knowledge and symbol level descriptions resulted in various proposals for conceptual knowledge models describing knowledge in an implementation independent way One of the most prominent examples of such a conceptual model is the KADS model of expertise which is characterized by its clear distinction of different knowledge types and by the usage of specific modeling primitives to describe these different knowledge types The semi formal KADS expertise model entails all the advantages and disadvantages which have been identified for semi formal system models e g in the software engineering community

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