

Michael Thielscher

# ACTION PROGRAMMING LANGUAGES

# Action Programming Languages Michael Thielscher

**International Joint Conferences on  
Artificial Intelligence, Mexican Society  
for Artificial Intelligence**

## Action Programming Languages Michael Thielscher:

**Action Programming Languages** Michael Thielscher, 2008-07-08 Artificial systems that think and behave intelligently are one of the most exciting and challenging goals of Artificial Intelligence Action Programming is the art and science of devising high level control strategies for autonomous systems which employ a mental model of their environment and which reason about their actions as a means to achieve their goals Applications of this programming paradigm include autonomous software agents mobile robots with high level reasoning capabilities and General Game Playing These lecture notes give an in depth introduction to the current state of the art in action programming The main topics are knowledge representation for actions procedural action programming planning agent logic programs and reactive behavior based agents The only prerequisite for understanding the material in these lecture notes is some general programming experience and basic knowledge of classical first order logic Table of Contents Introduction Mathematical Preliminaries Procedural Action Programs Action Programs and Planning Declarative Action Programs Reactive Action Programs Suggested Further Reading

ECAI 2016 G.A. Kaminka, M. Fox, P. Bouquet, 2016-08-24 Artificial Intelligence continues to be one of the most exciting and fast developing fields of computer science This book presents the 177 long papers and 123 short papers accepted for ECAI 2016 the latest edition of the biennial European Conference on Artificial Intelligence Europe's premier venue for presenting scientific results in AI The conference was held in The Hague the Netherlands from August 29 to September 2 2016 ECAI 2016 also incorporated the conference on Prestigious Applications of Intelligent Systems PAIS 2016 and the Starting AI Researcher Symposium STAIRS The papers from PAIS are included in this volume the papers from STAIRS are published in a separate volume in the Frontiers in Artificial Intelligence and Applications FAIA series Organized by the European Association for Artificial Intelligence EurAI and the Benelux Association for Artificial Intelligence BNVKI the ECAI conference provides an opportunity for researchers to present and hear about the very best research in contemporary AI This proceedings will be of interest to all those seeking an overview of the very latest innovations and developments in this field

**KI 2003: Advances in Artificial Intelligence** Andreas Günter, Rudolf Kruse, Bernd Neumann, 2003-09-09 This book constitutes the refereed proceedings of the 26th Annual German Conference on Artificial Intelligence KI 2003 held in Hamburg Germany in September 2003 The 42 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 90 submissions from 22 countries The papers are organized in topical sections on logics and ontologies cognitive modeling reasoning methods machine learning neural networks reasoning under uncertainty planning and constraints spatial modeling user modeling and agent technology    **KI 2003: Advances in Artificial Intelligence** Andreas Günter, Rudolf Kruse, Bernd Neumann, 2003-09-09 This book constitutes the refereed proceedings of the 26th Annual German Conference on Artificial Intelligence KI 2003 held in Hamburg Germany in September 2003 The 42 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 90 submissions from 22 countries

The papers are organized in topical sections on logics and ontologies cognitive modeling reasoning methods machine learning neural networks reasoning under uncertainty planning and constraints spatial modeling user modeling and agent technology **Frontiers of Combining Systems** Silvio Ghilardi,Roberto Sebastiani,2009-09-29 This book constitutes the refereed proceedings of the 7th International Symposium on Frontiers of Combining Systems FroCoS 2007 held in Trento Italy September 16 18 2009 The 20 revised full papers presented were carefully reviewed and selected The papers are organized in topical sections on combinations of logics theories and decision procedures constraint solving and programming combination issues in rewriting and programming as well as in logical frameworks and theorem proving systems **AI 2001: Advances in Artificial Intelligence** Mike Brooks,Dan Corbett,Markus Stumptner,2003-07-31 This book constitutes the refereed proceedings of the 14th Australian Joint Conference on Artificial Intelligence AI 2001 held in Adelaide Australia in December 2001 The 55 revised full papers presented together with one invited contribution were carefully reviewed and selected from a total of 100 submissions The papers cover the whole range of artificial intelligence from theoretical and foundational issues to advanced applications in a variety of fields **KI 2001: Advances in Artificial Intelligence** Franz Baader,Gerhard Brewka,Thomas Eiter,2003-06-30 This volume contains the contributions to the Joint German Austrian Conference on Artificial Intelligence KI 2001 which comprises the 24th German and the 9th Austrian Conference on Artificial Intelligence They are divided into the following categories 2 contributions by invited speakers of the conference 29 accepted technical papers of which 5 were submitted as application papers and 24 as papers on foundations of AI 4 contributions by participants of the industrial day during which companies working in the field presented their AI applications After a long period of separate meetings the German and Austrian Societies for Artificial Intelligence KI and OGAI decided to hold a joint conference in Vienna in 2001 The two societies had previously held one joint conference This took place in Ottstein a small town in Lower Austria in 1986 At that time the rise of expert system technology had also renewed interest in AI in general with quite some expectations for future advances regarding the use of AI techniques in applications pervading many areas of our daily life Since then fifteen years have passed and we may want to comment at the beginning of a new century on the progress that has been made in this direction **IJCAI-03 International Joint Conferences on Artificial Intelligence**,Mexican Society for Artificial Intelligence,2003 **KI 2004: Advances in Artificial Intelligence** Susanne Biundo,Thom Frühwirth,Günther Palm,2005-01-11 KI2004 wasthe 27th edition of the annual German Conference on Artificial Intelligence which traditionally brings together academic and industrial researchers from all areas of AI and which enjoys increasing international attendance KI 2004 received 103 submissions from 26 countries This volume contains the 30 papers that were finally selected for presentation at the conference The papers cover quite a broad spectrum of classical subareas of AI like natural language processing neural networks knowledge representation reasoning planning and search When looking at this year's contributions it was exciting to observe that there was a strong trend towards actual real world applications of AI

technology A majority of contributions resulted from or were motivated by applications in a variety of areas Examples include applications of planning where the technology is being exploited for taxiway traffic control and game playing natural language processing and knowledge representation are enabling advanced Web based information processing and the integration of results from automated reasoning neural networks and machine perception into robotics leads to significantly improved capabilities of autonomous systems The technical programme of KI 2004 was highlighted by invited talks from outstanding researchers in the areas of automated reasoning robot planning constraint reasoning machine learning and semantic Web Jorg Siekmann DFKI and University of Saarland Saarbrücken Malik Ghallab LAAS CNRS Toulouse Francois Fages INRIA Rocquencourt Martin Riedmiller University of nabru ck and Wolfgang Wahlster DFKI and University of Saarland Saarbrücken Their invited papers are also presented in this volume *IJCAI*, 1995 *AI* ..., 2001 *KI* ..., 2004 **Proceedings** American Association for Artificial Intelligence, 2006 *IJCAI-95* International Joint Conferences on Artificial Intelligence, 1995 *IJCAI-05* Leslie Pack Kaelbling, 2005 *Fundamenta Informaticae* Polskie Towarzystwo Matematyczne, 2003 *Challenges for Action Theories* Michael Thielscher, 2000-04-16 A logic based approach to the design of computing systems would undoubtedly offer many advantages over the imperative paradigm most commonly applied so far for programming and hardware design and consequently logic again and again has been heralded as the basis for the next generation of computer systems While logic and formal methods are indeed gaining ground in many areas of computer science and artificial intelligence the expected revolution has not yet happened In this book the author offers a convincing solution to the ramification problem and qualification problem associated with the frame problem and thus contributes to a satisfactory solution of the core problem and related challenges Thielscher bases his approach on the fluent calculus a first order Prolog like formalism allowing for the description of actions and change *Mathematical Reviews*, 1998 *Logics in Artificial Intelligence*, 1996 *Commonsense Reasoning* Erik T. Mueller, 2006-01-19 To endow computers with common sense is one of the major long term goals of Artificial Intelligence research One approach to this problem is to formalize commonsense reasoning using mathematical logic Commonsense Reasoning is a detailed high level reference on logic based commonsense reasoning It uses the event calculus a highly powerful and usable tool for commonsense reasoning which Erik T Mueller demonstrates as the most effective tool for the broadest range of applications He provides an up to date work promoting the use of the event calculus for commonsense reasoning and bringing into one place information scattered across many books and papers Mueller shares the knowledge gained in using the event calculus and extends the literature with detailed event calculus solutions to problems that span many areas of the commonsense world Covers key areas of commonsense reasoning including action change defaults space and mental states The first full book on commonsense reasoning to use the event calculus Contextualizes the event calculus within the framework of commonsense reasoning introducing the event calculus as the best method overall Focuses on how to use the event calculus formalism to perform

commonsense reasoning while existing papers and books examine the formalisms themselves. Includes fully worked out proofs and circumscriptions for every example.

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