## CHRISTOPH WALTHER

# A Many-Sorted Calculus Based on Resolution and Paramodulation

# **Many Sorted Calculus Based On Resolution And Paramodulation**

Hassan Aït-Kaci, Maurice Nivat

#### Many Sorted Calculus Based On Resolution And Paramodulation:

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inequality disequality and finitary domain constraints on variables Another paper presents a sufficient condition for confluence of conditional rewriting and a practical unification algorithm modulo conditional rewriting through the notion of conditional narrowing One paper analyzes the possibility of using completion for inductive proofs in the initial algebra of an equational variety without explicit induction Another papers discusses solving systems of word equations in the free monoid and the free group where a solution is defined as a word homomorphism Programmers mathematicians students and instructors involved in computer science and computer logic will find this collection valuable **Proceedings of the Ninth** International Joint Conference on Artificial Intelligence International Joint Conferences on Artificial Intelligence, 1985 **Sorts and Types in Artificial Intelligence** Ulrich Hedtstück, 1990-07-12 The aim of this book is to reflect the substantial re search done in Artificial Intelligence on sorts and types The main contributions come from knowledge representation and theorem proving and important impulses come from the application areas i e natural language understanding systems computational linguistics and logic programming The workshop brought together researchers from logic theoretical computer science theorem proving knowledge representation linguistics logic programming and qualitative Algebraic and Logic Programming Helene Kirchner, Wolfgang Wechler, 1990-09-20 This volume consists of reasoning papers presented at the Second International Conference on Algebraic and Logic Programming in Nancy France October 1 3 **Commonsense Reasoning** Erik T. Mueller, 2010-07-26 To endow computers with common sense is one of the 1990 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 **Mechanizing Mathematical Reasoning** Dieter Hutter, 2005-02-23 By presenting state of the art results in logical reasoning and formal methods in the context of artificial intelligence and AI applications this book commemorates the 60th birthday of I rg H Siekmann The 30 revised reviewed papers are written by former and current students and colleagues of J rg Siekmann also included is an appraisal of the scientific career of J rg Siekmann entitled A Portrait of a

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