

Canonical Equational Proofs

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September 30th, 2018 - Canonical equational proofs Leo Bachmair Equations occur in many computer applications such as symbolic computation functional programming abstract data type specifications program verification program synthesis and automated

EQUATIONAL INFERENCE CANONICAL PROOFS AND PROOF ORDERINGS

October 30th, 2018 - EQUATIONAL INFERENCE CANONICAL PROOFS AND PROOF ORDERINGS Leo Bachmair Department of Computer Science State University of New York at Stony Brook

Leo Bachmair Canonical equational proofs Progress in

September 2nd, 1992 - Canonical equational proofs Progress in theoretical computer science Birkhäuser Boston Basel and Berlin 1991 x 135 pp Volume 57 Issue 3 John Pedersen Skip to main content We use cookies to distinguish you from other users and to provide you with a better experience on our websites

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October 17th, 2018 - INTRODUCTION Equational reasoning is fundamental in mathematics logics and many applications of formal methods in computer science In this chapter we describe the theoretical concepts and results that form the basis of state of the art automated theorem provers for first order clause logic with equality

Canonical Equational Proofs SpringerLink

October 21st, 2018 - We develop a proof theoretic framework for studying completion and related rewrite-based proof procedures We shall view theorem provers as proof transformation procedures so as to express their essential properties as proof normalization theorems

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October 5th, 2018 - Lately it has turned out that the prerequisite for this method to apply namely that unification with so called linear constant restrictions is decidable in the single theories is equivalent to requiring decidability of the positive fragment of the first order theory of the equational theories

Canonical Equational Proofs Bachmair Springer

October 25th, 2018 - Equations occur in many computer applications such as symbolic computation functional programming abstract data type specifications program verification program synthesis and automated theorem proving Rewrite systems are directed equations used to compute by replacing subterms in a given

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June 3rd, 2018 - Guillem Godoy Ashish Tiwari Rakesh Verma On the Confluence of Linear Shallow Term Rewrite Systems Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science p 85 96 February 27 March 01 2003

9780817635558 Canonical Equational Proofs Progress in

October 19th, 2018 - Various rewrite based proof methods are formalized at an abstract level as equational inference systems and techniques for reasoning about such inference systems are developed based on the concepts of normal form proofs and proof orderings

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Equational inference canonical proofs and proof orderings

March 1st, 1994 - We describe the application of proof orderings" a technique for reasoning about inference systems to various rewrite based theorem proving methods including refinements of the standard Knuth Bendix completion procedure based on critical pair criteria Huet s procedure for rewriting modulo a congruence ordered completion a refutationally complete extension of standard completion and a proof by consistency procedure for proving inductive theorems

Pedersen Review Leo Bachmair Canonical Equational Proofs

July 31st, 2018 - Review Leo Apostel Game Theory and the Interpretation of Deontic Logic Lemmon E J Journal of Symbolic Logic 1965 Review Leo Simons A Reduction in the Number of Independent Axiom Schemata for S4 Yonemitsu

Equational Inference Canonical Proofs And Proof

September 30th, 2001 - This is a substantially revised version of the paper Orderings for equational proofs and quot co authored with J Hsiang and presented at the Symp on Logic in Computer Science Boston Massachusetts June 1986

Abstract Canonical Inference researchgate net

October 24th, 2018 - Abstract Canonical Inference $\hat{\cdot}$ 3 in the presentation 1 We also define redundancy in terms of the proof ordering as propounded in Bonacina and Hsiang 1995 A sentence is redundant if adding it to

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September 30th, 2018 - Equations occur in many computer applications such as symbolic computation functional programming abstract data type specifications program verification program synthesis and automated theorem proving

Leo Bachmair Google Scholar Citations

October 26th, 2018 - Their combined citations are counted only for the first article Merged citations Equational inference canonical proofs and proof orderings L Bachmair N Dershowitz Journal of the ACM JACM 41 2 236 276 1994 109 1994 Completion for rewriting modulo a congruence

The Algebra of Equality Proofs University of Iowa

October 29th, 2018 - The Algebra of Equality Proofs which puts equality proofs into canonical form Proofs in this canonical This result is applied to obtain a simple extension of the union and algorithm for ground equational reasoning which produces minimal proofs The time complexity of the

Canonical Equational Proofs Bachmair Amazon

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Equational Inference Canonical Proofs And Proof

September 30th, 2001 - We describe the application of proof orderings a technique for reasoning about inference systems to various rewrite based theorem proving methods including refinements of the standard Knuth Bendix completion procedure based on critical pair criteria Huet andapos s procedure for rewriting modulo a

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Theorem Proving in Wolfram Language Documentation

October 6th, 2018 - The Wolfram Language performs theorem proving in many forms and many domains. Sometimes the theorem proving is an implicit part of other operations, sometimes it is explicit. For axiom systems specified using equational logic, the Wolfram Language includes state-of-the-art capabilities for generating full symbolic proof objects.

A Rewriting Decision Procedure for Dijkstra-Scholten's

October 17th, 2018 - Equational theory for CSYLL shown to provide a decision procedure for CSYLL based on rewriting is presented in Section 5 together with its executable specification in Maude and some examples.

Abstract Canonical Presentations Semantic Scholar

October 13th, 2018 - Abstract Canonical Presentations Nachum Dershowitz, School of Computer Science, Tel Aviv University. Study of equational logic involves finding appropriate presentations of a given theory. Proof ordering on the set of all proofs, the smaller in the ordering, the better. Good Proofs.

On interreduction of semi-complete term rewriting systems

October 14th, 2018 - Canonical Equational Proofs. Research Notes in Theoretical Computer Science, Wiley, New York, 1989. 2 R V Book F Otto. String Rewriting Systems. Texts and Monographs in Computer Science, Springer, Berlin, August 1993.

About proofs by consistency Springer for Research

October 27th, 2018 - Equational Theory. Annual IEEE Symposium on Automated Deduction. Abstract Data Type Automatic Proof. These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

Canonical Ground Horn Theories cs.tau.ac.il

October 26th, 2018 - Equational theorem $\exists x s \hat{=} t$ where \hat{x} are the variables in s and t is a proof chain $s \hat{=} t' \hat{=} \dots \hat{=} t$ where s and t are s and t with their variables treated as Skolem constants and equations only decrease terms.

Theorem Proving Modulo Based on Boolean Equational Procedures

October 9th, 2018 - We present four equational theories that are isomorphic to the traditional Boolean theory and show that each of them gives rise to a Boolean decision procedure based on a canonical rewrite system modulo associativity.

Rewriting Techniques ScienceDirect

October 19th, 2018 - One paper analyzes the possibility of using completion for inductive proofs in the initial algebra of an equational variety without explicit induction. Another paper discusses solving systems of word equations in the free monoid and the free group where a solution is defined as a word homomorphism.

Canonical conditional rewrite systems Mitsuhiro Okada

October 19th, 2018 - If for a given proof P of $s = t$ there is a completely direct proof $p = t$ of $s = t$ then we say that the proof P is completely

normalizable 548 Lemma 2 Complete Normalizability Lemma For any confluent and decreasing semi equational system every proof is completely normalizable

Abstract Canonical Inference Profs Area Scienze ed

September 29th, 2018 - Abstract Canonical Inference 3 subsumed by formula 1 in the presentation 1 We also define redundancy in terms of the proof ordering as propounded in

Canonical Sets of Horn Clauses manualzz.com

October 27th, 2018 - Equational inference canonical proofs and proof orderings J of the Association for Computing Machinery to appear Bachmair and Ganzinger 1990 Leo Bachmair and Harald Ganzinger Completion of first order clauses with equality In M Okada editor Proceedings of the Second International Workshop on Conditional and Typed Rewriting Systems

Theorem proving using equational matings and rigid E

October 8th, 2018 - A decidable version of E unification called rigid E unification is introduced and it is shown that the method of equational matings remains complete when used in conjunction with rigid E unification

Leo Bachmair Ronald V Book Canonical Equational Proofs Birkhauser 1991

5

Notes on Proving Arithmetic Equations Expressions and Values

September 29th, 2018 - an equational proof can make proof checking easier but it is not strictly necessary since it is not hard to program a checker for uncommented proofs Figure 1 contains a formal proof of the equation $f(g \hat{=} g) = f$

LNCS 3467 The Algebra of Equality Proofs

October 19th, 2018 - which puts equality proofs into canonical form Proofs in this canonical form use the fewest possible assumptions and a proof can be canonized Ground equational reasoning plays an important role in many approaches to verification and automated reasoning 3 8 9 12 14 17 Recently there has

Equational inference canonical proofs and proof

September 11th, 2018 - Equational inference canonical proofs and proof orderings Report Leo Bachmair on Amazon.com FREE shipping on qualifying offers

Knuth's Bendix completion algorithm Wikipedia

November 7th, 2018 - This representative is called the canonical or normal form for each word w_k in the class If there is a computable method to determine for each w_k its normal form w_i then the word problem is easily solved

Mining Propositional Simplification Proofs for Small

October 30th, 2018 - Finally we give an equational theory for simplifying proof terms along with a completed set of rewrite rules Let A be a countable set of propositional variables V the set of boolean We can describe the canonical form of proofs rewritten in this rewrite system as follows Consider proofs of formulas of the form $\exists T$ If $\exists \alpha$

Algebraic Meta Theories and Synthesis of Equational Logics

October 31st, 2018 - to be sound with respect to a canonical model the which typically leads to canonical equational logics In order to make substantial progress in the area the proposal targets a host of key features of languages used for proof checking system 28 which in turn arose as a meta theory for a Logic for Computable Functions 54 based on

arXiv cs 0304017v1 cs LO 10 Apr 2003

July 2nd, 2017 - An equational inference system for this vocabulary might consist of the following inference rules $i \ 0 \ 0 \ Z \ j \ i \ j \ I \ i \ j \ i \ j \ j \ k \ i \ k \ T \ i \ j$ So we say that A is canonical if $A \ A^{\text{TM}}$ Proof orderings are lifted to sets of proofs as follows Definition 2 Justification Q is better than justification P if

Set Theory and Algebra in Computer Science A Gentle

November 6th, 2018 - Set Theory and Algebra in Computer Science A Gentle Introduction to Mathematical Modeling Jos e Meseguer University of Illinois at Urbana Champaign

Mathematics of Modality CSLI Publications

May 31st, 1993 - Modal logic is the study of modalities expressions that qualify assertions about the truth of statements The study of modalities dates from antiquity but has been most actively pursued in the last three decades

Canonical Equational Proofs Progress in Theoretical

September 14th, 2018 - Buy Canonical Equational Proofs Progress in Theoretical Computer Science by Leo Bachmair ISBN 9783764335557 from Amazon s Book Store Everyday low prices and free delivery on eligible orders

Notes on Proving Arithmetic Equations amp Inequalities 1

October 27th, 2018 - Course Notes 3 Notes on Proving Arithmetic Equations amp Inequalities 3 2 Equational Proofs Definition 2 1 An $aeq \ C$ is said to follow by the transitivity rule from the pair of $aeq \ A$

2009 11th International Symposium on Symbolic and Numeric

July 19th, 2015 - Using the machinery of proof orders originally introduced by Bachmair and Dershowitz in the context of canonical equational proofs we give an abstract strategy independent presentation of Groebner basis procedures and prove the correctness of two classical criteria for recognising superfluous S polynomials Buchberger s criteria 1 and 2 w r t arbitrary fair and correct basis construction

An algorithm for finding canonical sets of ground rewrite

September 17th, 2018 - complete proofs at LICS 88 13 and proved rigorously in Gallier et al 15 Rigid E unification itself arises naturally in generalizing the method of matings due to Bibel and Andrews 1 4 6 to languages with equality

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