Compiled Labelled Deductive Systems for Access Control

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ABSTRACT. This paper proposes a Compiled Labelled Deductive System, called AC_{CLDS}, for reasoning about role-based access control in distributed systems, which builds upon Massacci's tableau system for role-based access control. The AC_{CLDS} system overcomes some of the limitations of Massacci's approach by combining its multi-modal propositional language with a labelling algebra that allows reasoning explicitly about *dynamic properties* of the accessibility relations. This combined feature, which is typical of the Compiled Labelled Deductive framework, facilitates a sound and complete, and more natural AC_{CLDS} reasoning mechanism than Massacci's sound and only partially complete tableau system. Limitations of the usefulness of Massacci's multi-modal logic in formalising access control systems are also discussed, showing that they relate to the initial formulation of Abadi's calculus for access control. Solutions for overcoming these limitations are briefly proposed within the context of the AC_{CLDS} system.

1 Introduction

Labelled Deductive Systems (LDS) is a methodology initially proposed by Gabbay in [18] for both the theoretical study of logics and the development of logical systems suitable for the needs of specific applications. In the LDS approach, a basic unit of information is not just a formula but a *labelled formula*, where the label belongs to a given labelling algebra. Additional information, for example regarding the overall structure of the data or the underlying semantic properties of the logic, can be explicitly embodied, via the labels, in the object language of the system. Derivation rules act on both the labels and the formulae, according to certain fixed rules of propagation. The addition of this separate "object-level" dimension (i.e. labels and labelling algebra) enables the development of a *uniform system*

Compiled Labelled Deductive Systems

Arthur James Wells

Compiled Labelled Deductive Systems:

Compiled Labelled Deductive Systems Krysia Broda,2004 This book introduces a general framework called Compiled Labelled Deductive System CLDS for a unified presentation of logics It shows how this technique is applied to various families of non classical logics widely used in Computer Science and Artificial Intelligence It includes complete natural deduction proof systems together with proofs and examples for the families of propositional and predicate modal logics propositional conditional logics of normality multiplicative linear logic and for Lukasiewicz fuzzy logic The CLDS framework generalises the notion of a logical theory to a structured theory consisting of labelled formulas and relations between the labels This formalisation makes the logics more amenable to applications Moreover the framework provides a semantic approach based on a first order translation which can be uniformly applied to any logic whose semantics is first order axiomatisable Such a semantic approach also facilitates the development of automated theorem provers for non classical logics *Labelled Deductive Systems* Dov M. Gabbay,2023 This work introduces a new unifying framework for logics which makes it particularly suitable for applications It develops its general theory and illustrates it with applications in logic computer science artificial intelligence and philosophy Labelled Deduction David Basin,M. D'Agostino,Dov M. Gabbay,Seán Matthews,Luca Viganò,2012-12-06 Labelled deduction is an approach to providing frameworks for presenting and using different logics in a uniform and natural way by enriching the language of a logic with additional information of a semantic proof theoretical nature Labelled deduction systems often possess attractive properties such as modularity in the way that families of related logics are presented parameterised proofs of metatheoretic properties and ease of mechanisability It is thus not surprising that labelled deduction has been applied to problems in computer science AI mathematical logic cognitive science philosophy and computational linguistics for example formalizing and reasoning about dynamic state oriented properties such as knowledge belief time space and resources **Automated Reasoning with Analytic Tableaux and Related Methods** Neil V. Murray,2003-07-31 This book constitutes the refereed proceedings of the International Conference on Analytic Tableaux and Related Methods TABLEAUX 99 held in Saratoga Springs NY USA in June 1999 The volume presents 18 revised full papers and three system descriptions selected from 41 submissions Also included are system comparisons and abstracts of an invited paper and of two tutorials All current issues surrounding mechanization of reasoning with tableaux and similar methods are addressed ranging from theoretical foundations to implementation and systems development and applications as well as covering a broad variety of logic calculi As application areas formal verification of software and computer systems deductive databases knowledge representation and systems diagnosis are covered **Labelled Non-Classical Logics** Luca Viganò,2013-04-17 I am very happy to have this opportunity to introduce Luca Vigano s book on Labelled Non Classical Logics I put forward the methodology of labelled deductive systems to the participants of Logic Colloquium 90 Labelled Deductive systems a Position Paper In J Oikkonen and J Vaananen editors Logic

Colloquium 90 Volume 2 of Lecture Notes in Logic pages 66 68 Springer Berlin 1993 in an attempt to bring labelling as a recognised and significant component of our logic culture It was a response to earlier isolated uses of labels by various distinguished authors as a means to achieve local proof theoretic goals Labelling was used in many different areas such as resource labelling in relevance logics prefix tableaux in modal logics annotated logic programs in logic programming proof tracing in truth maintenance systems and various side annotations in higher order proof theory arithmetic and analysis This widespread local use of labels was an indication of an underlying logical pattern namely the simultaneous side by side manipulation of several kinds of logical information It was clear that there was a need to establish the labelled deductive systems methodology Modal logic is one major area where labelling can be developed quickly and sys tematically with a view of demonstrating its power and significant advantage In modal logic the labels can play a double role   Computational Logic: Logic Programming and Beyond Antonis C. Kakas,Fariba Sadri,2003-08-02 Alan Robinson This set of essays pays tribute to Bob Kowalski on his 60th birthday an anniversary which gives his friends and colleagues an excuse to celebrate his career as an original thinker a charismatic communicator and a forceful intellectual leader The logic programming community hereby and herein conveys its respect and thanks to him for his pivotal role in creating and fostering the conceptual paradigm which is its raison d tre The diversity of interests covered here reflects the variety of Bob s concerns Read on It is an intellectual feast Before you begin permit me to send him a brief personal but public message Bob how right you were and how wrong I was I should explain When Bob arrived in Edinburgh in 1967 resolution was as yet fairly new having taken several years to become at all widely known Research groups to investigate various aspects of resolution sprang up at several institutions the one organized by Bernard Meltzer at Edinburgh University being among the first For the half dozen years that Bob was a leading member of Bernard s group I was a frequent visitor to it and I saw a lot of him We had many discussions about logic computation and language   Neural Computation ,2006   **The Bulletin of Symbolic Logic** ,2002   *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards* ,2002 Theses on any subject submitted by the academic libraries in the UK and Ireland   **American Book Publishing Record** ,2004   **The British National Bibliography** Arthur James Wells,2004   **Mathematical Reviews** ,2003-05   **Collegium Logicum** ,1999   *Proceedings of the Conference* Association for Computational Linguistics. Meeting,1998   **Book Review Index Cumulation** Dana Ferguson,2005-09 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year

COLING-96 ,1996   *Government Reports Announcements & Index* ,1996   **Logic Programming and Automated Reasoning** ,1992   **Logic Programming and Automated Reasoning** Andrei Voronkov,1992 This volume contains the proceedings of LPAR 92 theinternational conference on logic programming and automatedreasoning held in St Petersburg in July 1992 The aim ofthe conference was to bring together researchers from theRussian and the international logic programming and theoremproving communities The topics of interest covered by papers inthe volumeinclude automated theorem proving non monotonic reasoning applications of mathematical logic to computer science deductive databases implementation of declarative concepts and programming in non classical logics LPAR 92 is the successor of the First and Second RussianConferences on Logic Programming held in 1990 and 1991 respectively the proceedings of which were publishedinLNAI Vol 592   *Polonica zagraniczne* ,2004

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