Cut Elimination in Categories

Kosta Došen

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Cut Elimination In Categories:

Cut Elimination in Categories K. Dosen,2013-04-18 Proof theory and category theory were first drawn together by Lambek some 30 years ago but until now the most fundamental notions of category theory as opposed to their embodiments in logic have not been explained systematically in terms of proof theory Here it is shown that these notions in particular the notion of adjunction can be formulated in such as way as to be characterised by composition elimination Among the benefits of these composition free formulations are syntactical and simple model theoretical geometrical decision procedures for the commuting of diagrams of arrows Composition elimination in the form of Gentzen s cut elimination takes in categories and techniques inspired by Gentzen are shown to work even better in a purely categorical context than in logic An acquaintance with the basic ideas of general proof theory is relied on only for the sake of motivation however and the treatment of matters related to categories is also in general self contained Besides familiar topics presented in a novel simple way the monograph also contains new results It can be used as an introductory text in categorical proof theory   Coherence and Non-Commutative Diagrams in Closed Categories Rodiani Voreadou,1977 With respect to closed categories the allowable natural transformations are the composites of instances of the natural transformations which determine the closed structure The coherence problem for closed categories is considered in the form of the question When are two allowable natural transformations with the same domain and the same codomain equal Since natural transformations with different graphs are always different the study of the problem makes sense for pairs of allowable natural transformations with the same graph   Rewriting Techniques and Applications Ralf Treinen,2009-06-19 This book constitutes the refereed proceedings of the 20th International Conference on Rewriting Techniques and Applications RTA 2009 held in Bras lia Brazil during June 29 July 1 2009 The 22 revised full papers and four system descriptions presented were carefully reviewed and selected from 59 initial submissions The papers cover current research on all aspects of rewriting including typical areas of interest such as applications foundational issues frameworks implementations and semantics   *Joachim Lambek: The Interplay of Mathematics, Logic, and Linguistics* Claudia Casadio,Philip J. Scott,2021-03-20 This book is dedicated to the life and work of the mathematician Joachim Lambek 1922 2014 The editors gather together noted experts to discuss the state of the art of various of Lambek s works in logic category theory and linguistics and to celebrate his contributions to those areas over the course of his multifaceted career After early work in combinatorics and elementary number theory Lambek became a distinguished algebraist notably in ring theory In the 1960s he began to work in category theory categorical algebra logic proof theory and foundations of computability In a parallel development beginning in the late 1950s and for the rest of his career Lambek also worked extensively in mathematical linguistics and computational approaches to natural languages He and his collaborators perfected production and type grammars for numerous natural languages Lambek grammars form an early noncommutative precursor to Girard s linear logic In a surprising development 2000 he introduced a novel and deeper

algebraic framework which he called pregroup grammars for analyzing natural language along with algebraic higher category and proof theoretic semantics This book is of interest to mathematicians logicians linguists and computer scientists

<u>Logical Foundations of Computer Science</u> Sergei Artemov,Anil Nerode,2015-12-14 This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science LFCS 2016 held in Deerfield Beach FL USA in January 2016 The 27 revised full papers were carefully reviewed and selected from 46 submissions The scope of the Symposium is broad and includes constructive mathematics and type theory homotopy type theory logic automata and automatic structures computability and randomness logical foundations of programming logical aspects of computational complexity parameterized complexity logic programming and constraints automated deduction and interactive theorem proving logical methods in protocol and program verification logical methods in program specification and extraction domain theory logics logical foundations of database theory equational logic and term rewriting lambda and combinatory calculi categorical logic and topological semantics linear logic epistemic and temporal logics intelligent and multiple agent system logics logics of proof and justification non monotonic reasoning logic in game theory and social software logic of hybrid systems distributed system logics mathematical fuzzy logic system design logics and other logics in computer science

Coherence in Categories Gregory Maxwell Kelly,1972-08-23   *Logic and Scientific Methods* Maria Luisa Dalla Chiara,Kees Doets,Daniele Mundici,Johan van Benthem,1996-12-31 This is the first of two volumes comprising the papers submitted for publication by the invited participants to the Tenth International Congress of Logic Methodology and Philosophy of Science held in Florence August 1995 The Congress was held under the auspices of the International Union of History and Philosophy of Science Division of Logic Methodology and Philosophy of Science The invited lectures published in the two volumes demonstrate much of what goes on in the fields of the Congress and give the state of the art of current research The two volumes cover the traditional subdisciplines of mathematical logic and philosophical logic as well as their interfaces with computer science linguistics and philosophy Philosophy of science is broadly represented too including general issues of natural sciences social sciences and humanities The papers in Volume One are concerned with logic mathematical logic the philosophy of logic and mathematics and computer science   <u>Categories, Polymorphism and Unification</u> Ewan Klein,Johan van Benthem,1987   **Proof Theory in Computer Science** Reinhard Kahle,Peter Schroeder-Heister,Robert Stärk,2003-06-30 Proof theory has long been established as a basic discipline of mathematical logic It has recently become increasingly relevant to computer science The ductive apparatus provided by proof theory has proved useful for metatheoretical purposes as well as for practical applications Thus it seemed to us most natural to bring researchers together to assess both the role proof theory already plays in computer science and the role it might play in the future The form of a Dagstuhl seminar is most suitable for purposes like this as Schlo Dagstuhl provides a very convenient and stimulating environment to scuss new ideas and developments To accompany the conference with a proc dings volume

appeared to us equally appropriate Such a volume not only xes basic results of the subject and makes them available to a broader audience but also signals to the scienti c community that Proof Theory in Computer Science PTCS is a major research branch within the wider eld of logic in computer science *The Bulletin of Symbolic Logic* ,2008 *Any Way You Cut it* Donald D. Stull,Michael J. Broadway,David Griffith,1995 Many rural communities attract meat poultry and fish processing plants owned by transnational corporations They often bring social disorder in their wake incoming workers This work offers anthropological geographical sociological journalist and industrial perspectives on the issue Bulletin of the Section of Logic ,1998 *Mathematical Reviews* ,2007 Ordered Categories with Involution Mikhail Shamshonovich TᴄSᴄalenko,V. B. Gisin,Dmitriĭ Abramovich Raĭkov,1984 *Proof-theoretical Coherence* Kosta Došen,Zoran Petrić,2004 This book in categorial proof theory formulates in terms of category theory a generalization close to linear algebra of the notions of distributive lattice and Boolean algebra These notions of distributive lattice category and Boolean category codify a plausible nontrivial notion of identity of proofs in classical propositional logic which is in accordance with Gentzen s cut elimination procedure for multiple conclusion sequents modified by admitting new principles called union of proofs and zero proofs It is proved that these notions of category are coherent in the sense that there is a faithful structure preserving functor from freely generated distributive lattice categories and Boolean categories into the category whose arrows are relations between finite ordinals a category related to generality of proofs and to the notion of natural transformation These coherence results yield a simple decision procedure for equality of proofs Coherence in the same sense is also proved for various more general notions of category that enter into the notions of distributive lattice category and Boolean category Some of these coherence results like those for monoidal and symmetric monoidal categories are well known but are here presented in a new light The key to this categorification of the proof theory of classical propositional logic is distribution of conjunction over disjunction that is not an isomorphism as in cartesian closed categories *Category Theory, Homology Theory and Their Applications* ,1969 **Orlicz Type Category Theorems for Functional and Differential Equations** Józef Myjak,1983 Automata, Languages and Programming ,2004 **Internal and Forcing Models for the Impredicative Theory of Classes** R. Chuaqui,1980 *Proceedings of Symposia in Pure Mathematics* ,1970

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