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# Algebra and Coalgebra in Computer Science

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Proceedings

# Algebra And Coalgebra In Computer Science Algebra And Coalgebra In Computer Science

Joacim Rocklöv

**Algebra And Coalgebra In Computer Science Algebra And Coalgebra In Computer Science:**

Algebra and Coalgebra in Computer Science Andrea Corradini,Bartek Klin,Corina Cîrstea,2011-08-19 This book constitutes the refereed proceedings of the 4th International Conference on Algebra and Coalgebra in Computer Science CALCO 2011 held in Winchester UK in August September 2011 The 21 full papers presented together with 4 invited talks were carefully reviewed and selected from 41 submissions The papers report results of theoretical work on the mathematics of algebras and coalgebras the way these results can support methods and techniques for software development as well as experience with the transfer of the resulting technologies into industrial practice They cover topics in the fields of abstract models and logics specialized models and calculi algebraic and coalgebraic semantics and system specification and verification The book also includes 6 papers from the CALCO tools Workshop colocated with CALCO 2011 and dedicated to tools based on algebraic and or coalgebraic principles **Algebra and Coalgebra in Computer Science** José Luis Fiadeiro,Neil Harman,Markus Roggenbach,Jan Rutten,2005-08-31 In April 2004 after one year of intense debate CMCS the International Workshop on Coalgebraic Methods in Computer Science and WADT the Workshop on Al braic Development Techniques decided to join their forces and reputations into a new high level biennial conference CALCO the Conference on Algebra and Co gebra in Computer Science was created to bring together researchers and practit ners to exchange new results related to foundational aspects and both traditional and emerging uses of algebras and coalgebras in computer science A steering committee was put together by merging those of CMCS and WADT Jiri Adamek Ataru Na gawa Michel Bidoit Jos Fiadeiro co chair Hans Peter Gumm Bart Jacobs Hans J rg Kreowski Ugo Montanari Larry Moss Peter Mosses Fernando Orejas Fr cesco Parisi Presicce John Power Horst Reichel Markus Roggenbach Jan Rutten co chair and Andrzej Tarlecki CALCO 2005 was the first instance of this new conference The interest that it generated in the scientific community suggests that it will not be the last Indeed it attracted as many as 62 submissions covering a wide range of topics roughly divided into two areas Algebras and Coalgebras as Mathematical Objects Automata and languages categorical semantics hybrid probabilistic and timed systems inductive and co ductive methods modal logics relational systems and term rewriting

Algebra and Coalgebra in Computer Science Reiko Heckel,Stefan Milius,2013-08-27 This book constitutes the refereed proceedings of the 5th International Conference on Algebra and Coalgebra in Computer Science CALCO 2013 held in Warsaw Poland in September 2013 The 18 full papers presented together with 4 invited talks were carefully reviewed and selected from 33 submissions The papers cover topics in the fields of abstract models and logics specialized models and calculi algebraic and coalgebraic semantics system specification and verification as well as corecursion in programming languages and algebra and coalgebra in quantum computing The book also includes 6 papers from the CALCO Tools Workshop co located with CALCO 2013 and dedicated to tools based on algebraic and or coalgebraic principles **Algebra and Coalgebra in Computer Science** Till Mossakowski,Ugo Montanari,Magne Haveraaen,2007-08-22 A double pronged

approach makes this book an extremely useful addition to the literature on this highly relevant contemporary topic Addressing two basic areas of application for algebras and coalgebras as mathematical objects as well as in the context of their application in computer science the papers cover topics such as abstract models and logics specialised models and calculi algebraic and coalgebraic semantics and system specification and verification The book is the refereed proceedings of the second CALCO conference held in August 2007 in Norway **Algebra and Coalgebra in Computer Science** Till Mossakowski,Ugo Montanari,Magne Haveraaen,2007-08-09 A double pronged approach makes this book an extremely useful addition to the literature on this highly relevant contemporary topic Addressing two basic areas of application for algebras and coalgebras as mathematical objects as well as in the context of their application in computer science the papers cover topics such as abstract models and logics specialised models and calculi algebraic and coalgebraic semantics and system specification and verification The book is the refereed proceedings of the second CALCO conference held in August 2007 in Norway **Algebra and Coalgebra in Computer Science** Alexander Kurz,Marina Lenisa,2009-09-19 This book constitutes the proceedings of the Third International Conference on Algebra and Coalgebra in Computer Science CALCO 2009 formed in 2005 by joining CMCS and WADT This year the conference was held in Udine Italy September 7 10 2009 The 23 full papers were carefully reviewed and selected from 42 submissions They are presented together with four invited talks and workshop papers from the CALCO tools Workshop The conference was divided into the following sessions algebraic effects and recursive equations theory of coalgebra coinduction bisimulation stone duality game theory graph transformation and software development techniques *Algebra and Coalgebra in Computer Science* Alexander Kurz,Marina Lenisa,Andrzej Tarlecki,2009-08-28 This book constitutes the proceedings of the Third International Conference on Algebra and Coalgebra in Computer Science CALCO 2009 formed in 2005 by joining CMCS and WADT This year the conference was held in Udine Italy September 7 10 2009 The 23 full papers were carefully reviewed and selected from 42 submissions They are presented together with four invited talks and workshop papers from the CALCO tools Workshop The conference was divided into the following sessions algebraic effects and recursive equations theory of coalgebra coinduction bisimulation stone duality game theory graph transformation and software development techniques Algebra and Coalgebra in Computer Science José Luis Fiadeiro,2005 This book constitutes the refereed proceedings of the First International Conference on Algebra and Coalgebra in Computer Science CALCO 2005 held in Swansea UK in September 2005 The biennial conference was created by joining the International Workshop on Coalgebraic Methods in Computer Science CMCS and the Workshop on Algebraic Development Techniques WADT It addresses two basic areas of application for algebras and coalgebras as mathematical objects as well as their application in computer science The 25 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 62 submissions The papers deal with the following subjects automata and languages categorical semantics hybrid probabilistic and timed systems inductive and coinductive

methods modal logics relational systems and term rewriting abstract data types algebraic and coalgebraic specification calculi and models of concurrent distributed mobile and context aware computing formal testing and quality assurance general systems theory and computational models chemical biological etc generative programming and model driven development models correctness and re configuration of hardware middleware architectures re engineering techniques program transformation semantics of conceptual modelling methods and techniques semantics of programming languages validation and verification **6th Conference on Algebra and Coalgebra in Computer Science (CALCO 2015)** Lawrence Moss (S.),Pawel Sobocinski,2015 Coalgebraic Methods in Computer Science Daniela Petrişan,Jurriaan Rot,2020-08-21 This book constitutes the thoroughly refereed post conference proceedings of the 15th International Workshop on Coalgebraic Methods in Computer Science CMCS 2020 colocated with ETAPS 2020 held in Dublin Ireland in April 2020 The conference was held as several online events in September and October due to the COVID 19 pandemic The 9 revised full papers were carefully reviewed and selected from 13 submissions Also included is one invited talk The papers cover a wide range of topics in the theory logics and applications of coalgebras **Introduction to Coalgebra** Bart Jacobs,2017 An accessible introduction to coalgebra with clear mathematical explanations and numerous examples and exercises **Universal Algebra and Coalgebra** Klaus Denecke,Shelly L. Wismath,2009 The purpose of this book is to study the structures needed to model objects in universal algebra universal coalgebra and theoretical computer science Universal algebra is used to describe different kinds of algebraic structures while coalgebras are used to model state based machines in computer science The connection between algebras and coalgebras provides a way to connect static data oriented systems with dynamical behavior oriented systems Algebras are used to describe data types and coalgebras describe abstract systems or machines The book presents a clear overview of the area from which further study may proceed

Algebraic Informatics Franz Winkler,2011-06-21 This book constitutes the refereed proceedings of the 4th International Conference on Algebraic Informatics CAI 2011 held in Linz Austria in June 2011 The 12 revised full papers presented together with 4 invited articles were carefully reviewed and selected from numerous submissions The papers cover topics such as algebraic semantics on graph and trees formal power series syntactic objects algebraic picture processing finite and infinite computations acceptors and transducers for strings trees graphs arrays etc decision problems algebraic characterization of logical theories process algebra algebraic algorithms algebraic coding theory and algebraic aspects of cryptography Algebra and Coalgebra in Computer Science ,2006 *Advanced Topics in Bisimulation and Coinduction* Davide Sangiorgi,Jan Rutten,2011-10-13 Coinduction is a method for specifying and reasoning about infinite data types and automata with infinite behaviour In recent years it has come to play an ever more important role in the theory of computing It is studied in many disciplines including process theory and concurrency modal logic and automata theory Typically coinductive proofs demonstrate the equivalence of two objects by constructing a suitable bisimulation relation between them

This collection of surveys is aimed at both researchers and Master s students in computer science and mathematics and deals with various aspects of bisimulation and coinduction with an emphasis on process theory Seven chapters cover the following topics history algebra and coalgebra algorithmics logic higher order languages enhancements of the bisimulation proof method and probabilities Exercises are also included to help the reader master new material **7th Conference on Algebra and Coalgebra in Computer Science** Filippo Bonchi,Barbara König (teoretično računalništvo.),2017 **Algebra, Meaning, and Computation** Kokichi Futatsugi,2006-06-22 This volume honoring the computer science pioneer Joseph Goguen on his 65th Birthday includes 32 refereed papers by leading researchers in areas spanned by Goguen s work The papers address a variety of topics from meaning meta logic specification and composition behavior and formal languages as well as models deduction and computation by key members of the research community in computer science and other fields connected with Joseph Goguen s work **Logics for Coalgebras and Applications to Computer Science** Alexander Kurz,2001-05 Foundations of Software Science and Computation Structures Mogens Nielsen,Uffe Engberg,2003-08-01 ETAPS 2002 is the fth instance of the European Joint Conferences on Theory and Practice of Software ETAPS is an annual federated conference that was established in 1998by combining a number of existing and new conferences This year it comprises ve conferences FOSSACS FASE ESOP CC TACAS thirteen satellite workshops ACL2 AGT CMCS COCV DCC INT LDTA SC SFEDL SLAP SPIN TPTS and VISS eight invited lectures not including those that are speci c to the satellite events and several tutorials The events that comprise ETAPS address various aspects of the system velopment process including speci cation design implementation analysis and improvement The languages methodologies and tools which support these tivities are all well within its scope Di erent blends of theory and practice are represented with an inclination towards theory with a practical motivation on one hand and soundly based practice on the other Many of the issues involved in software design apply to systems in general including hardware systems and the emphasis on software is not intended to be exclusive

*Algebraic and Coalgebraic Methods in the Mathematics of Program Construction* Roland Backhouse,Roy Crole,Jeremy Gibbons,2003-07-31 Program construction is about turning specifications of computer software into implementations Recent research aimed at improving the process of program construction exploits insights from abstract algebraic tools such as lattice theory fixpoint calculus universal algebra category theory and allegory theory This textbook like tutorial presents besides an introduction eight coherently written chapters by leading authorities on ordered sets and complete lattices algebras and coalgebras Galois connections and fixed point calculus calculating functional programs algebra of program termination exercises in coalgebraic specification algebraic methods for optimization problems and temporal algebra

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