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Algebra and Coalgebra in Computer Science

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Swansea, UK, September 2005
Proceedings

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Algebra And Coalgebra In Computer Science

José Luiz Fiadeiro



Algebra And Coalgebra In Computer Science:

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 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,2007-08-09 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 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,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

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

6th Conference on Algebra and Coalgebra in Computer Science (CALCO 2015)

Lawrence Moss (S.), Pawel Sobocinski, 2015

Algebra and Coalgebra in Computer Science José Luiz Fiadeiro, 2006

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 Algebraic Development Techniques decided to join their forces and reputations into a new high level biennial conference CALCO the Conference on Algebra and Coalgebra in Computer Science was created to bring together researchers and practitioners 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 Francesco 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 7th Conference on Algebra and Coalgebra in Computer Science Filippo Bonchi, Barbara König (teoretično računalništvo.), 2017 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 *Algebra and Coalgebra in Computer Science* Andrea Corradini, 2011 *10th Conference on Algebra and Coalgebra in Computer Science (CALCO 2023)* Paolo Baldan, Valeria de Paiva, 2023 *Introduction to Coalgebra* Bart Jacobs, 2017 An accessible introduction to coalgebra with clear mathematical explanations and numerous examples and exercises 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 **9th Conference on Algebra and Coalgebra in Computer Science (CALCO 2021)** Fabio Gadducci, Alexandra Silva, 2021 **8th Conference on Algebra and Coalgebra in Computer Science** Markus Roggenbach, Ana Sokolova, 2019 **Algebraic and Coalgebraic Methods in the Mathematics of Program Construction** Roland Backhouse, Roy Crole, Jeremy Gibbons, 2002-04-17 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 *Logics for Coalgebras and Applications to Computer Science* Alexander Kurz, 2001-05 *Coalgebraic Methods in Computer Science* Ichiro Hasuo, 2016-06-03 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Workshop on Coalgebraic Methods in Computer Science CMCS 2016 colocated with ETAPS 2016 held in Eindhoven The Netherlands in April 2016 The 10 revised full papers were carefully reviewed and selected from 13 submissions Also included are an invited paper and two keynote talks The papers cover a wide range of topics in the theory logics and applications of coalgebras

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