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Pierre-Yves Schobbens (Eds.)

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# Recent Trends in Algebraic Development Techniques

18th International Workshop, WADT 2006  
La Roche en Ardenne, Belgium, June 2006  
Revised Selected Papers



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# Recent Trends In Algebraic Development Techniques

**Joanna Golińska-Pilarek, Michał  
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## **Recent Trends In Algebraic Development Techniques:**

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*Recent Trends in Algebraic Development Techniques* Didier Bert, Christine Choppy, Peter Mosses, 2004-02-02 This book constitutes the thoroughly refereed post workshop proceedings of the 14th International Workshop on Algebraic Development Techniques WADT 99 held in Toulouse France in September 1999 The 23 revised full papers presented together with three invited papers were carefully reviewed and selected from 69 workshop presentations The papers address the following topics algebraic specification and other specification formalisms test and validation concurrent processes applications logic and validation combining formalisms subsorts and partiality structuring rewriting co algebras and sketches refinement institutions and categories and ASM specifications

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James, Markus Roggenbach, 2017-12-07 This book constitutes the thoroughly refereed post conference proceedings of the 23rd IFIP WG 1.3 International Workshop on Algebraic Development Techniques WADT 2016 held in September 2016 in Gregynog UK. The 9 revised papers presented together with two invited talks, one invited paper and two survey papers were carefully reviewed and selected from numerous submissions and focus on foundations of algebraic specification, other approaches to formal specification including process calculi and models of concurrent distributed and mobile computing, specification languages, methods and environments, semantics of conceptual modeling methods and techniques, model driven development, graph transformations, term rewriting and proof systems, integration of formal specification techniques, formal testing and quality assurance, validation and verification areas broadly falling into three categories: multimedia content analysis, multimedia signal processing and communications, and multimedia applications and services. Recent Trends in Algebraic Development Techniques

Francesco Parisi-Presicce, 1998-03-11 This book constitutes the strictly refereed post workshop proceedings of the 12th International Workshop on Algebraic Development Techniques WADT 98 held in Tarquinia, Italy, in June 1997. This book presents besides three invited surveys 21 carefully revised full papers selected from 40 presentations given at the workshop. The algebraic approach to the specification and development of systems, born as a formal method for abstract data types, encompasses today the formal design of integrated hardware and software systems, new specification frameworks and a wide range of applications. This book presents the state of the art in the area of algebraic software development. *Recent Trends in Algebraic Development Techniques*

Andrea Corradini, Ugo Montanari, 2009-08-29 This book constitutes the thoroughly refereed post conference proceedings of the 19th International Workshop on Recent Trends in Algebraic Development Techniques WADT 2008 held in Pisa, Italy, on June 13-16, 2008. The 18 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 33 presentations at the workshop. The papers focus on the algebraic approaches to the specification and development of systems and address topics such as formal methods for system development, specification languages and methods, systems and techniques for reasoning about specifications, specification development systems, methods and techniques for concurrent distributed and mobile systems, and algebraic and co-algebraic foundations. **Recent Trends in Algebraic Development Techniques**, 1999 **Recent Trends in Algebraic Development Techniques**

Markus Roggenbach, 2021-04-10 This book constitutes the thoroughly refereed post conference proceedings of the 25th International Workshop on Algebraic Development Techniques WADT 2020 held virtually in April 2020. The 7 revised papers presented together with an invited paper were carefully reviewed and selected from 9 submissions. The contributed presentations covered a range of topics about the algebraic approach to system specification which encompasses many aspects of the formal design of software systems. Originally born as formal method for reasoning about abstract data types, the algebraic approach now covers new specification frameworks and programming paradigms such as object oriented, aspect oriented, agent oriented, logic and higher order functional programming as well as a

wide range of application areas including information systems concurrent distributed and mobile systems      *Recent Trends in Algebraic Development Techniques* Jose L. Fiadeiro, 1999-07-28 The European conference situation in the general area of software science has long been considered unsatisfactory. A fairly large number of small and medium sized conferences and workshops take place on an irregular basis competing for high quality contributions and for enough attendees to make them financially viable. Discussions aiming at a consolidation have been underway since at least 1992 with concrete planning beginning in summer 1994 and culminating in a public meeting at TAPSOFT 95 in Aarhus. On the basis of a broad consensus it was decided to establish a single annual federated spring conference in the slot that was then occupied by TAPSOFT and CAAP ESOP CC comprising a number of existing and new conferences and covering a spectrum from theory to practice. ETAPS 98 the first instance of the European Joint Conferences on Theory and Practice of Software is taking place this year in Lisbon. It comprises five conferences: FoSSaCS, FASE, ESOP, CC, TACAS, four workshops: ACoS, VISUAL, WADT, CMCS, seven invited lectures and nine tutorials.

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*Recent Trends in Algebraic Development Techniques* Narciso Marti-Oliet, Miguel Palomino, 2013-03-28

**Recent Trends in Algebraic Development Techniques** Martin Wirsing, Dirk Pattinson, Rolf Hennicker, 2003-11-24 This book constitutes the thoroughly refereed post-proceedings of the 16th International Workshop on Algebraic Development Techniques WADT 2002 held at Frauenchiemsee, Germany, in September 2002. The 20 revised full papers presented together with 6 invited papers were carefully improved and selected from 44 workshop presentations during two rounds of reviewing. The papers are devoted to topics like formal methods for system development, specification languages and methods, systems and techniques for reasoning about specifications, specification development, systems methods and techniques for concurrent distributed and mobile systems and algebraic and co-algebraic methods.

*Recent Trends in Algebraic Development Techniques* José Luiz Fiadeiro, Peter Mosses, Fernando Orejas, 2005-02-26 This volume contains selected papers from WADT 2004 the 17th International Workshop on Algebraic Development Techniques.

**Foundations of Algebraic Specification and Formal Software Development** Donald Sannella, Andrzej Tarlecki, 2012-01-05 This book provides foundations for software specification and formal software development from the perspective of work on algebraic specification concentrating on developing basic concepts and studying their fundamental properties. These foundations are built on a solid mathematical

basis using elements of universal algebra category theory and logic and this mathematical toolbox provides a convenient language for precisely formulating the concepts involved in software specification and development Once formally defined these notions become subject to mathematical investigation and this interplay between mathematics and software engineering yields results that are mathematically interesting conceptually revealing and practically useful The theory presented by the authors has its origins in work on algebraic specifications that started in the early 1970s and their treatment is comprehensive This book contains five kinds of material the requisite mathematical foundations traditional algebraic specifications elements of the theory of institutions formal specification and development and proof methods While the book is self contained mathematical maturity and familiarity with the problems of software engineering is required and in the examples that directly relate to programming the authors assume acquaintance with the concepts of functional programming The book will be of value to researchers and advanced graduate students in the areas of programming and theoretical computer science

**Recent Trends in Algebraic Development Techniques** Mihai Codrescu, Răzvan Diaconescu, Ionuț Țuțu, 2015-12-29 This book constitutes the thoroughly refereed post conference proceedings of the 22nd International Workshop on Algebraic Development Techniques WADT 2014 held in Sinaia Romania The 8 revised papers presented were carefully reviewed and selected from 13 presentations and focus together with one invited paper on foundations of algebraic specification approaches to formal specification including process calculi and models of concurrent distributed and mobile computing specification languages methods and environments semantics of conceptual modeling methods and techniques model driven development graph transformations term rewriting and proof systems integration of formal specification techniques formal testing and quality assurance validation and verification

**Foundations of Software Science and Computation Structures** Mogens Nielsen, Uffe Engberg, 2003-08-01 ETAPS 2002 is the fifth instance of the European Joint Conferences on Theory and Practice of Software ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences This year it comprises several 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 specific to the satellite events and several tutorials The events that comprise ETAPS address various aspects of the system development process including specification design implementation analysis and improvement The languages methodologies and tools which support these activities are all well within its scope Different 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

*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

Ewa Orłowska on Relational Methods in Logic and Computer Science Joanna Golińska-Pilarek, Michał Zawidzki, 2018-12-08 This book is a tribute to Professor Ewa Orłowska a Polish logician who was celebrating the 60th year of her scientific career in 2017 It offers a collection of contributed papers by different authors and covers the most important areas of her research Prof Orłowska made significant contributions to many fields of logic such as proof theory algebraic methods in logic and knowledge representation and her work has been published in 3 monographs and over 100 articles in internationally acclaimed journals and conference proceedings The book also includes Prof Orłowska's autobiography bibliography and a dialogue between her and the editors of the volume as well as contributors biographical notes and is suitable for scholars and students of logic who are interested in understanding more about Prof Orłowska's work

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