

V. S. Alagar, Maurice Nivat (Eds.)

Algebraic Methodology and Software Technology

4th International Conference, AMAST '95
Montreal, Canada, July 1995
Proceedings



Springer

Algebraic Methodology Software Technol

Charles Rattray, Savitri Maharaj



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Algebraic Methodology and Software Technology Michael Johnson, 1997-12 This book constitutes the refereed proceedings of the 6th International Conference on Algebraic Methodology and Software Engineering AMAST 97 held in Sydney Australia in December 1997 The volume presents 48 revised full papers selected from an unusually high number of submissions One of the outstanding features of AMAST is its mix of serious mathematical development of formal methods in software engineering with practical concerns tools case studies and industrial development The volume addresses all current aspects of formal methods in software engineering and programming methodology with a certain emphasis on algebraic and logical foundations

Algebraic Methodology and Software Technology Armando M. Haeberer, 2003-05-20 AMAST's goal is to advance awareness of algebraic and logical methodology as part of the fundamental basis of software technology Ten years and seven conferences after the start of the AMAST movement I believe we are attaining this The movement has propagated throughout the world assembling many enthusiastic specialists who have participated not only in the conferences which are now annual but also in the innumerable other activities that AMAST promotes and supports We are now facing the Seventh International Conference on Algebraic Methodology and Software Technology AMAST 98 The previous meetings were held in Iowa City USA 1989 and 1991 in Enschede The Netherlands 1993 in Montreal Canada 1995 in Munich Germany 1996 and in Sydney Australia 1997 This time it is Brazil's turn in a very special part of this colorful country Amazonia Thus if we have done more it is by standing on the shoulders of giants The effort started by Teodor Rus Arthur Fleck and William A Kirk at AMAST 89 was consolidated in AMAST 91 by Teodor Rus Maurice Nivat Charles Rattray and Giuseppe Scollo Then came modular construction of the building wonderfully carried out by Giuseppe Scollo Vangalur Alagar Martin Wirsing and Michael Johnson as Program Chairs of the AMAST conferences held between 1993 and 1997

Algebraic Methodology and Software Technology Helene Kirchner, Christophe Ringeissen, 2003-08-02 This volume contains the proceedings of AMAST 2002 the 9th International Conference on Algebraic Methodology and Software Technology held during September 9-13 2002 in Saint Gilles les Bains Réunion Island France The major goal of the AMAST conferences is to promote research that may lead to setting software technology on a firm mathematical basis This goal is achieved through a large international cooperation with contributions from both academia and industry Developing a software technology on a mathematical basis produces software that is a correct and the correctness can be proved mathematically safe so that it can be used in the implementation of critical systems portable i.e. independent of computing platforms and language generations and evolutionary i.e. it is self-adaptable and evolves with the problem domain All previous AMAST conferences which were held in Iowa City 1989 1991 Twente 1993 Montreal 1995 Munich 1996 Sydney 1997 Manaus 1999 and Iowa City 2000 made contributions to the AMAST goals by reporting and disseminating academic and industrial achievements within the AMAST area of interest During these meetings AMAST attracted an international following among researchers and practitioners

interested in software technology programming methodology and their algebraic and logical foundations

Algebraic Methodology and Software Technology Teodor Rus, 2003-06-26 The AMAST movement was initiated in 1989 with the First International Conference on Algebraic Methodology and Software Technology AMAST held on May 21-23 in Iowa City Iowa and aimed at setting the development of software technology on a mathematical basis The virtue of the software technology envisioned by AMAST is the capability to produce software that has the following properties a it is correct and its correctness can be proved mathematically b it is safe such that it can be used in the implementation of critical systems c it is portable i.e. it is independent of computing platforms and language generations and d it is evolutionary i.e. it is self-adaptable and evolves with the problem domain Ten years later a myriad of workshops conferences and research programs that share the goals of the AMAST movement have occurred This can be taken as proof that the AMAST vision is right However often the myriad of workshops conferences and research programs lack the clear objectives and the coordination of their goals towards the software technology envisioned by AMAST This can be taken as a proof that AMAST is still necessary

Algebraic Methodology and Software Technology José Meseguer, Grigore Rosu, 2008-07-15 This book constitutes the refereed proceedings of the 12th International Conference on Algebraic Methodology and Software Technology AMAST 2008 held in Urbana IL USA in July 2008 The 28 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 58 submissions Among the topics covered are all current issues in formal methods related to algebraic and logical foundations software technology and to programming methodology including concurrent and reactive systems evolutionary software adaptive systems logic and functional programming object paradigms constraint programming and concurrency program verification and transformation programming calculi specification languages and tools formal specification and development case studies logic category theory relation algebra computational algebra algebraic foundations for languages and systems coinduction theorem proving and logical frameworks for reasoning logics of programs as well as algebra and coalgebra

Algebraic Methodology and Software Technology Martin Wirsing, Maurice Nivat, 1996-06-19 Content Description Includes bibliographical references and index

Algebraic Methodology and Software Technology Charles Rattray, Savitri Maharaj, 2004-11-11 This book constitutes the refereed proceedings of the 10th International Conference on Algebraic Methodology and Software Technology AMAST 2004 held in Stirling Scotland UK in July 2004 The 35 revised full papers presented together with abstracts of 5 invited talks and an invited paper were carefully reviewed and selected from 63 submissions Among the topics covered are all current issues in formal methods related to algebraic approaches to software engineering including abstract data types process algebras algebraic specification model checking abstraction refinement model checking state machines rewriting Kleene algebra programming logic etc

Algebraic Methodology and Software Technology V.S. Alagar, Maurice Nivat, 1995-05-21 This volume constitutes the proceedings of the 4th International Conference on Algebraic Methodology and Software Technology held in Montreal

Canada in July 1995 It includes full papers or extended abstracts of the invited talks refereed selected contributions and research prototype tools The invited speakers are David Gries Jeanette Wing Dan Craigen Ted Ralston Ewa Orlowska Krzysztof Apt Joseph Goguen and Rohit Parikh The 29 refereed papers presented were selected from some 100 submissions they are organized in sections on algebraic and logical foundations concurrent and reactive systems software technology logic programming and databases

Algebraic Methodology and Software Technology (AMAST'93) Maurice Nivat, Charles Rattray, Teodor Rus, Giuseppe Scollo, 2012-12-06 The goal of the AMAST conferences is to foster algebraic methodology as a foundation for software technology and to show that this can lead to practical mathematical alternatives to the ad hoc approaches commonly used in software engineering and development The first two AMAST conferences held in May 1989 and May 1991 at the University of Iowa were well received and encouraged the regular organization of further AMAST conferences on a biennial schedule The third Conference on Algebraic Methodology and Software Technology was held in the campus of the University of Twente The Netherlands during the first week of Summer 1993 Nearly a hundred people from all continents attended the conference The largest interest received by the AMAST conference among the professionals extended to include the administration organizations as well AMAST 93 was opened by the Rector of the University of Twente followed by the Local Chairman Their opening addresses open this proceedings too The proceedings contains 8 invited papers and 32 selected communications The selection was very strict for 121 submissions were received

Encyclopedia of Computer Science and Technology Allen Kent, James G. Williams, 1994-02-08 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions

Algebraic Specification Techniques and Tools for Software Development Ingo Classen, Hartmut Ehrig, Dietmar Wolz, 1993 The intention of this book is to show how algebraic specification methods can be used for software development to support reliability modifiability and reusability These methods are introduced by parameterized and module specifications through practical examples and case studies using algebraic specification languages and tools developed at TU Berlin

Algebraic Methodology and Software Technology, 2004

Algebraic Methodology and Software Technology Michael Johnson, 2014-01-15

Algebraic Methodology and Software Technology AMAST. 5, 1996, München, Thom Frühwirth, 2000

Algebraic Methodology and Software Technology (AMAST '91) M. Nivat, 1992

Algebraic Methodology and Software Technology Charles Rattray, Savitri Maharaj, 2004-06-24 This book constitutes the refereed proceedings of the 10th International Conference on Algebraic Methodology and Software Technology AMAST 2004 held in Stirling Scotland UK in July 2004 The 35 revised full papers presented together with abstracts of 5 invited talks and an invited paper were carefully reviewed and selected from

63 submissions Among the topics covered are all current issues in formal methods related to algebraic approaches to software engineering including abstract data types process algebras algebraic specification model checking abstraction refinement model checking state machines rewriting Kleene algebra programming logic etc Algebraic Methodology and Software Technology (AMAST'91) M. Nivat,1994 **Algebraic Methods in Logic and in Computer Science** Cecylia Rauszer,1993 Recent Trends in Algebraic Development Techniques ,1999 **Reliable Software Technologies, Ada-Europe ...** ,2002

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