

THE UNIFIED COMPUTATION LABORATORY

Modelling, Specification, and Proof

Edited by CHARLES HATTIRAY
and ROBERT G. CLARK



Unified Computation Laboratory

Ying-Ying Zheng



Unified Computation Laboratory:

Conference on the Unified Computation Laboratory Institute of Mathematics and Its Applications, University of Stirling. Department of Computing Science and Mathematics. Systems and Software Engineering Subgroup, 1990 The Unified Computation Laboratory Charles Rattray, Robert George Clark, 1992 This book is concerned with the theory and techniques required in the construction and implementation of complex software systems Improved understanding may come from developing suitable models and theories of such systems to guide appropriate experimentation Alternatively standard mathematical theories and constructions may provide techniques directly usable in the design and implementation of new software In any case the use of these approaches involves the development of new tools and using them leads to further insights which can improve the original theories and models The contributors to this book cover all these many aspects involved in the origin development and refinement of software systems Some chapters break new ground some represent the next stage in ongoing research programs and others describe the next generation of software tools In addition to a readership of software engineers and computer scientists the book offers a source of interesting research problems for mathematicians whose work is vital for the continued development of the field *Conference on the Unified Computation Laboratory* Conference on The Unified Computation Laboratory, 1990 **The Unified Computation Laboratory** University of Stirling, 1990 *Grid Technologies* M. P. Bekakos, George A. Gravvanis, Hamid Arabnia, 2006 Grid computing denotes an approach to utilize distributed resources that are not subject to centralized control This approach fulfils computing requirements arising within the context of current high performance computing applications especially in the field of computational science and engineering This idea is analogous to an electric power network grid where power generators are distributed but the users are able to access electric power without bothering about the source of energy and its location Current grid enabling technologies consist of stand alone architectures A typical architecture provides middleware access to various services at different hierarchical levels Computational grids enable the sharing selection and aggregation of a wide variety of geographically distributed computational resources such as supercomputers clusters of computers storage systems data sources instruments people etc and present them as a single unified resource for solving large scale computations and data intensive computing applications e g molecular modeling for drug design brain activity analysis high energy physics etc Grid computing is a new emerging research area aiming to promote the development and advancement of technologies that provide seamless and scalable access to wide area distributed resources **Z User Workshop, Cambridge 1994** J.P. Bowen, J.A. Hall, 2012-12-06 This volume contains papers from the Eighth Z User Meeting to be held at the University of Cambridge from 29-30 June 1994 The papers cover a wide range of issues associated with Z and formal methods with particular reference to practical application These issues include education standards tool support and interaction with other design paradigms such as consideration of real time and object oriented approaches to development Among the actual topics

covered are the formal specification in Z of Defence Standard 00 56 formal specification of telephone features specifying and interpreting class hierarchies in Z and software quality assurance using the SAZ method Z User Workshop Cambridge 1994 provides an important overview of current research into industrial applications of Z and will provide invaluable reading for researchers postgraduate students and also potential industrial users of Z

Recent Trends in Algebraic Development Techniques Maura Cerioli, Gianna Reggio, 2002-01-23 The program started with a full day tutorial on the CASL followed by 32 presentations several of them on the CASL as well organized in parallel sessions during the following two days

The parallel sessions were devoted to logics and proofs concurrent processes institutions and categories applications and case studies higher order and parameterized specifications static analysis software architectures graph and transformation rules The main topics of the workshop were algebraic specification other approaches to formal specification specification languages and methods term rewriting and proofs systems specification development systems concepts tools etc

The program committee invited submissions of full papers for possible inclusion in this volume on the basis of the abstracts and the presentations at WADT 2001 All the submissions were subject to careful refereeing and the selection of papers was made following further discussion by the full program committee

Recent Trends in Data Type Specification Michel Bidoit, Christine Choppy, 1993-01-29 The algebraic specification of abstract data types has been a flourishing research topic in computer science since 1974 The main goal of this work is to evolve theoretical foundations and a methodology to support the design and formal development of reliable software This volume gives the proceedings of the Eighth Workshop on Specification of Abstract Data Types held jointly with the Third COMPASS workshop near Paris in August 1991 The main topics covered by the joint workshop are specification languages and program development algebraic specification of concurrency theorem proving object oriented specifications order sorted algebras abstract implementation and behavioral semantics The volume contains four invited surveys and twelve contributed papers all of which underwent a careful refereeing process

Z User Workshop, London 1992 J.P. Bowen, J.E. Nicholls, 2013-03-09 The Z notation has been developed at the Programming Research Group at the Oxford University Computing Laboratory and elsewhere for over a decade It is now used by industry as part of the software and hardware development process in both Europe and the USA It is currently undergoing BSI standardisation in the UK and has been proposed for ISO standardisation internationally In recent years researchers have begun to focus increasingly on the development of techniques and tools to encourage the wider application of Z and other formal methods and notations This volume contains papers from the Seventh Annual Z User Meeting held in London in December 1992 In contrast to previous years the meeting concentrated specifically on industrial applications of Z and a high proportion of the participants came from an industrial background The theme is well represented by the four invited papers Three of these discuss ways in which formal methods are being introduced and the fourth presents an international survey of industrial applications It also provides a reminder of the improvements which are needed to make

these methods an accepted part of software development In addition the volume contains several submitted papers on the industrial use of Z two of which discuss the key area of safety critical applications There are also a number of papers related to the recently completed ZIP project The papers cover all the main areas of the project including methods tools and the development of a Z Standard the first publicly available version of which was made available at the meeting Finally the volume contains a select Z bibliography and section on how to access information on Z through comp specification z the international computer based USENET newsgroup Z User Workshop London 1992 provides an important overview of current research into industrial applications of Z and will provide invaluable reading for researchers postgraduate students and also potential industrial users of Z

ZUM '95: The Z Formal Specification Notation Jonathan P. Bowen, 1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users ZUM 95 held in Limerick Ireland in September 1995 The book contains 34 carefully selected papers on Z using Z applications of Z proof testing industrial usage object orientation animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and application the volume is of high relevance for the whole formal methods community

Proceedings, 2001

Computational Ordinary Differential Equations Institute of Mathematics and Its Applications, 1992 This collection of refereed papers from an international conference provides a comprehensive coverage of recent research on the numerical solution of ordinary differential equations There are sections on initial value problems boundary value problems differential algebraic equations applications to the solution of partial differential equations parallel solution methods and methods of conservation and global error calculation Within each section the papers have been ordered so that the reader will perceive a gradual movement from the theoretical to the practical New challenges such as the solution of differential algebraic equations and the impact of parallelism are covered alongside currently topical aspects of older problems such as the interpolation of Runge Kutta methods and the development of formulas which conserve energy whilst preserving accuracy For numerical analysts in academic and industrial research this book provides detailed coverage of this important subject

Computational Aeronautical Fluid Dynamics L. Fezoui, Jacques Periaux, Julian C. R. Hunt, 1994 This volume presents high quality papers from the joint conference of the Institute of Mathematics and its Applications with the Applied and Industrial Maths Society of France Of industrial and research interest the conference focused on topics of current interest to applied mathematicians and numerical analysts working on computational fluid dynamics with emphasis on the aeronautical industry

COMPSAC 2001, 2001 Papers from an October 2001 address such themes as requirements engineering component based development protocols and harmonization quality management software architecture workflow systems and software testing distributed systems UML commercial off the shelf components e learning applicat

Forthcoming Books Rose Army, 1992

Wavelets, Fractals, and Fourier Transforms M. Farge, Julian C. R. Hunt, J. C. Vassilicos, 1993 Proceedings of a conference

in Cambridge England December 1990 Topics include wavelets fractals and order two densities iterated function systems and their applications fractional Brownian motion and wavelets wavelets and astronomical image analysis the wavelet transform applied to flow around Antarctica wavelet analysis of turbulence solution of Burgers equation by Fourier transform methods the fractal dimension of oil water interfaces in channel flows and fractal aggregates in the atmosphere No index Annotation copyright by Book News Inc Portland OR

The Mathematics of Control Theory N. K. Nichols, David H. Owens, 1992 This international conference brought together mathematicians from universities and industry to discuss the very latest advances in mathematical control and the control of algorithms for improving the performance and efficiency of their control schemes A wide range of issues of current interest to theoreticians and practitioners are covered including algebraic systems theory nonlinear control systems adaptive control robustness issues infinite dimensional systems applications studies and connections to mathematical aspects of information theory and data fusion This text will be of value to all readers with an interest in developing and applying recent concepts and techniques in the area

Computer Aided Systems Theory, 1993

Computer Aided Systems Theory--EUROCAST '93 Franz Pichler (Ing., Dr. phil.), Roberto Moreno-Díaz, 1994 This volume contains a selection of papers presented at the third European Computer Aided Systems Theory workshop EUROCAST 93 held in Spain in February 1993 The workshop emphasizes interdisciplinarity with the specific goal of creating a synergy between fields such as systems theory computer science systems engineering and related areas The contributions in this volume are strongly related to current problems in CAST research They emphasize an engineering point of view concerning systems theory Since the computer is an essential instrument in CAST research there are close relations to specific topics in computer science The papers are grouped into parts on systems theory and systems technology specific methods and applications PUBLISHER S WEBSITE

Bulletin Institute of Mathematics and Its Applications, 1993

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