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Rogardt Heldal, Carsten Kehler Holst
and Philip Wadler (Eds.)

Functional Programming, Glasgow 1991



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Functional Programming Glasgow 1991 Proceedings Of The 1991 Glasgow Workshop

Michael Hoelscher



Functional Programming Glasgow 1991 Proceedings Of The 1991 Glasgow Workshop:

Functional Programming, Glasgow 1991 Rogardt Heldal, Carsten K. Holst, Philip Wadler, 2012-12-06 The Glasgow functional programming group has held a workshop each summer since 1988 The entire group accompanied by a selection of colleagues from other institutions retreats to a pleasant Scottish location for a few days Everyone speaks briefly enhancing coherence cross fertilisation and camaraderie in our work The proceedings of the first workshop were published as a technical report Demand for this was large enough to encourage wider publication and subsequent proceedings have been published in the Springer Verlag Workshops in Computing series These are the proceedings of the meeting held 12-14 August 1991 in Portree on the Isle of Skye A preliminary proceedings was prepared in advance of the meeting Most presentations were limited to a brief fifteen minutes outlining the essentials of their subject and referring the audience to the pre print proceedings for details Papers were then refereed and rewritten and you hold the final results in your hands A number of themes emerged at this year's workshop including relational algebra and its application to hardware design partial evaluation and program transformation implementation techniques and strictness analysis We were especially pleased to see applications of functional programming emerge as a theme One of the sessions was devoted to a lively discussion of applications and was greatly enhanced by our industrial participants The workshop was organised by Kei Davis Cordelia Hall Rogardt Heldal Carsten Kehler Holst John Hughes John O'Donnell and Satnam Singh all from the University of Glasgow

Functional Programming, Glasgow 1991, 1992 **Theory and Formal Methods 1993** Geoffrey Burn, Simon Gay, Mark Ryan, 2012-12-06 This volume contains the proceedings of the first workshop held by the Theory and Formal Methods Section of the Imperial College Department of Computing It contains papers from almost every member of the Section from our long term academic visitors and from those who have recently left us The papers fall into four broad areas semantics concurrency logic specification with some papers spanning a number of disciplines The subject material varies from work on mathematical foundations to practical applications of this theory expressing the Section's commitment to both the foundations of computer science and the application of theory to real computing problems In preparing the workshop and these proceedings care was taken to ensure that there were papers overviews of a field as well as ones whose primary aim was to present new scientific results This had a dual purpose to bring our Section members up to speed in some of the areas being worked on by the Section and to provide the reader of the proceedings not only with a good introduction to many of the specific areas being investigated by the Section but also with details of some of our latest results All the papers presented at the workshop were revised following comments made by the workshop participants and all were subsequently reviewed by at least two people before producing the final versions contained in this volume First International Workshop on Larch Ursula Martin, Jeannette M. Wing, 2013-11-11 The papers in this volume were presented at the First International Workshop on Larch held at MIT Endicott House near Boston on 13-15 July 1992 Larch is a family of formal specification languages and

tools and this workshop was a forum for those who have designed the Larch languages built tool support for them particularly the Larch Prover and used them to specify and reason about software and hardware systems The Larch Project started in 1980 led by John Guttag at MIT and James Horning then at Xerox Palo Alto Research Center and now at Digital Equipment Corporation Systems Research Center DEC SRC Major applications have included VLSI circuit synthesis medical device communications compiler development and concurrent systems based on Lamport's TLA as well as several applications to classical theorem proving and algebraic specification Larch supports a two tiered approach to specifying software and hardware modules One tier of a specification is written in the Larch Shared Language LSL An LSL specification describes mathematical abstractions such as sets relations and algebras its semantics is defined in terms of first order theories The second tier is written in a Larch interface language one designed for a specific programming language An interface specification describes the effects of individual modules e.g. state changes resource allocation and exceptions its semantics is defined in terms of first order predicates over two states where state is defined in terms of the programming language's notion of state Thus LSL is programming language independent a Larch interface language is programming language dependent

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

Z User Workshop, York 1991 J. E. Nicholls, 2012-12-06 In ordinary mathematics an

equation can be written down which is syntactically correct but for which no solution exists For example consider the equation $x \times x = 1$ defined over the real numbers there is no value of x which satisfies it Similarly it is possible to specify objects using the formal specification language Z [3, 4] which can not possibly exist Such specifications are called inconsistent and can arise in a number of ways Example 1 The following Z specification of a function f from integers to integers $f : \mathbb{Z} \rightarrow \mathbb{Z}$ $f(x) = 1$ if $x = 0$ $f(x) = 2$ if $x \neq 0$ is inconsistent because axiom i gives $f(0) = 1$ while axiom ii gives $f(0) = 2$ This contradicts the fact that f was declared as a function that is f must have a unique result when applied to an argument Hence no such f exists Furthermore iff $f(0) = 1$ and $f(0) = 2$ then $1 = 2$ can be deduced From $1 = 2$ anything can be deduced thus showing the danger of an inconsistent specification Note that all examples and proofs start with the word Example or Proof and end with the symbol \square

Structures in

Concurrency Theory Jörg Desel, 2013-03-08 This book is the proceedings of the Structures in Concurrency Theory workshop STRICT that was held from 11 th to 13th May 1995 in Berlin Germany It includes three invited contributions by J de Bakker E Best et al and E R Olderog and M Schenke and all papers which were submitted and accepted for presentation Concurrency Theory deals with formal aspects of concurrent systems It uses partly competing and partly complementary formalisms and structures The aim of this workshop was to present and compare different formalisms and results in Concurrency Theory STRICT was organized by the Humboldt University Berlin and the ESPRIT Basic Research Working Group CALIBAN Original papers had been sought from all scientists in the field of Concurrency Theory The Programme Committee selected twenty contributions with various different topics including Petri Nets Process Algebras Distributed Algorithms Formal Semantics and others I am grateful to the Programme Committee and to the other referees for the careful evaluation of the submitted papers

Asynchronous Digital Circuit Design Graham Birtwistle, Alan Davis, 2013-04-17 As the costs of power and timing become increasingly difficult to manage in traditional synchronous systems designers are being forced to look at asynchronous alternatives Based on reworked and expanded papers from the VII Banff Higher Order Workshop this volume examines asynchronous methods which have been used in large circuit design ranging from initial formal specification to more standard finite state machine based control models Written by leading practitioners in the area the papers cover many aspects of current practice including practical design silicon compilation and applications of formal specification It also includes a state of the art survey of asynchronous hardware design The resulting volume will be invaluable to anyone interested in designing correct asynchronous circuits which exhibit high performance or low power operation

East/West Database Workshop Johann Eder, Leonid A. Kalinichenko, 2013-06-29 This volume results from the four day scientific Second International East West Database Workshop which took place 25th 28th September 1994 in Klagenfurt Austria continuing a series of workshops started in Kiev in 1990 Lecture Notes in Computer Science No 504 Springer Next Generation Information System Technology The aims of this workshop are twofold first to provide a forum for the presentation and in depth discussion of scientific achievements in the field of advanced databases that will effectively improve the building and

use of future information systems second to establish and increase communication between research communities which were formerly separated and therefore had only rare opportunities to interact It should establish contacts between researchers from the East and from the West to make exchange of ideas possible and to trigger collaborations However it is not only political borders which change their perviousness as a result of or giving rise to new autonomies or new possibilities for interaction and collaboration The same happens with the borders between scientific areas in particular in the dynamically evolving areas of computer science Databases and programming languages are integrated in object oriented databases database and information retrieval technology form together the basis for modern multimedia information systems Furthermore the borders between different information systems change and allow various forms of collaboration while maintaining different degrees of autonomy Heterogeneous and distributed databases are enabling technologies for these systems

5th Refinement Workshop Cliff B. Jones, Roger C. Shaw, Tim Denvir, 2013-03-14 Refinement is the term used to describe systematic and formal methods of specifying hard and software and transforming the specifications into designs and implementations The value of formal methods in producing reliable hard and software is widely appreciated by academics and workers in industry despite the fact that certain research areas such as the application to industrial scale problems are still in their infancy This volume contains the papers presented at the 5th Refinement Workshop held in London 8 10 January 1992 Its theme was the theory and practice of software specifications which is the transformation of formal software specifications into more correct specifications designs and codes This has been an important area of research for the last 5 years and the workshop addressed specific issues and problems related to it Among the topics discussed in this volume are the role of refinement in software development parallel designs and implementations methods and tools for verification of critical properties refinement and confidentiality concurrent processes as objects the compliance of Ada programs with Z specifications and a tactic driven refinement tool This is the latest refinement workshop proceedings to be published in the Workshops in Computing series the 3rd and 4th workshops having appeared in 1990 and 1991 respectively It will be of interest to academic and industrial researchers postgraduate students and research oriented developers in the computer industry

Active and Real-Time Database Systems (ARTDB-95) Mikael Berndtsson, Jörgen Hansson, 2012-12-06 The areas of active and real time databases have seen a tremendous growth of interest in the past few years particularly with regard to their support of time critical and embedded applications ARTDB 95 provided therefore an important forum for researchers from both communities to discuss research results and also to chart new directions for the future As well as the 11 submitted papers presented at the workshop this volume also contains 4 invited papers on the following topics the impact of active databases on commercial practice the optimization of active database transactions the need for better language compiler and tool support for real time databases and the origin of time constraints associated with data events and actions Together the papers give a comprehensive overview of current research and will provide invaluable reading for academic and

industrial researchers and students at both undergraduate and postgraduate level *Declarative Programming, Sasbachwalden 1991* John Darlington, Roland Dietrich, 2013-12-21 Declarative programming languages are based on sound mathematical foundations which means that they offer many advantages for software development These advantages include their powerful descriptive capabilities the availability of program analysis techniques and the potential for parallel execution This volume contains the proceedings of a seminar and workshop organised by the Esprit Basic Research Action Phoenix in collaboration with the Esprit Basic Research Action Integration Both these groups have been closely involved in investigating the foundations of declarative programming and the integration of various language paradigms as well as the developing aspects of related technology The main aim of the seminar and workshop was to provide a forum for the results of this work together with contributions from other researchers in the same field These papers cover a variety of important technical areas such as foundations and languages program transformation and analysis integrated approaches implementation techniques abstract machines and programming methodology The resulting volume provides an in depth picture of current research into declarative programming It will be of special interest to researchers in programming languages and methodology students of artificial intelligence and anyone involved in industrial research and development **Modelling Database Dynamics** Udo W. Lipect, Bernhard Thalheim, 2013-03-09 Database modelling is concerned with the design of reliable and efficient database systems Three different approaches to modelling can be identified structure oriented process oriented and behaviour oriented Database literature has traditionally focused on structure oriented approaches but it is now widely recognised that problems can be solved more effectively by integrating all three As a result modelling database dynamics is now considered to be as important as modelling static database structures This volume contains selected papers from the Fourth International Workshop on Foundations of Models and Languages for Data and Objects held in Volkse Germany 19 22 October 1992 This series of international workshops was initiated by the Working Group on Foundations of Information Systems part of the German Association for Informatics It provides an international forum for the discussion of current research into database theory and its application to database technology The theme of this particular workshop was modelling the dynamic behaviour of database systems in formal frameworks As object oriented principles are being widely used in current research work particular emphasis was also given to object dynamics Among the topics covered in this volume are specifying the dynamics of complex objects databases updates in a rule based language for objects an order sorted approach to active objects non deterministic aspects of database transformations involving object creation monitoring temporal permissions using partially evaluated transition graphs a formalisation of logic databases and integrity constraints a comparison of approaches for modelling dynamics of databases Modelling Database Dynamics provides a comprehensive overview of current research into the modelling and use of database dynamics It will provide invaluable reading for researchers postgraduate students and anyone interested in the theoretical foundations of computer science **Logic**

Program Synthesis and Transformation Kung-Kiu Lau, Timothy P. Clement, 2013-03-09 Logic program synthesis and transformation are topics of central importance to the software industry The demand for software can not be met by the current supply in terms of volume complexity or reliability The most promising solution seems to be the increased automation of software production programmer productivity would improve and correctness could be ensured by the application of mathematical methods Because of their mathematical foundations logic programs lend themselves particularly well to machine assisted development techniques and therefore to automation This volume contains the proceedings of the second International Workshop on Logic Program Synthesis and Transformation LOPSTR 92 held at the University of Manchester 2 3 July 1992 The LOPSTR workshops are the only international meetings devoted to these two important areas A variety of new techniques were described at the workshop all of which promise to revolutionize the software industry once they become standard practise These include techniques for the transformation of an inefficient program into an equivalent efficient one and the synthesis of a program from a formal specification of its required behaviour Among the topics covered in this volume are optimal transformation of logic programs logic program synthesis via proof planning deductive synthesis of programs for query answering efficient compilation of lazy narrowing into Prolog synthesis of narrowing programs Logimix a self applicable partial evaluator for Prolog proof nets automatic termination analysis Logic Program Synthesis and Transformation describes the latest advances in machine assisted development of logic programs It will provide essential reading for researchers and postgraduate students concerned with these two important areas

Theory And Formal Methods Of Computing 94: Proceedings Of The Second Imperial College Workshop Chris Hankin, I Mackie, Rajagopal Nagarajan, 1995-10-17 The focus of this workshop was the development of mathematically based techniques of formal specification of system behaviour and the systematic development of implementations The aim is to produce correct efficient implementations in a reliable fashion Topics covered at the workshop include category theory logic domain theory semantics concurrency specification and verification The papers published here range from the purely theoretical to practical applications

Advances in Databases and Information Systems Johann Eder, Leonid A. Kalinichenko, 2012-12-06 This volume results from the regular sessions of the Second International Workshop of the Moscow ACM SIGMOD Chapter Advances in Databases and Information Systems ADBIS 95 that took place 27th 30th June 1995 in Moscow Russia ADBIS 95 continues a series of annual Workshops on Advances in Databases and Information Systems organized by the Moscow ACM SIGMOD Chapter in cooperation with the Russian Foundation for Basic Research Past successful ADBIS conferences include the ADBIS 93 and ADBIS 94 Workshops that took place in Moscow The aims of these workshops are to provide a forum for the presentation and in depth discussion of advanced research directions that will effectively improve the building and use of future information systems and to increase communication between the Eastern and Western research communities which were formerly separated and still have only rare possibilities to interact Improving of the contacts and exchange of ideas

between researchers from the East and from the West will eventually lead to better collaboration between them The ADBIS 95 Call for Submissions attracted 60 submissions from 15 countries of which 35 submissions were accepted for presentation at the regular sessions 9 as posters and 7 as presentations for a special session for the Information Systems for Science This volume contains the papers presented in the regular sessions

6th Refinement Workshop David Till, 2012-12-06 The Sixth Refinement Workshop took place at City University in London from 5th to 7th January 1994 The present volume includes all of the papers which were submitted and accepted for presentation together with two papers by invited speakers The workshops in the series have generally occurred at one year intervals but in this last case a two year period had elapsed These workshops have established themselves as an important event in the calendar for all those who are interested in progress in the underlying theory of refinement and in the take up by industry of the methods supported by that theory One of the proposed themes of the sixth workshop was the reporting of successful adoption in industry of rigorous software development methods The programme committee was perhaps slightly disappointed by the response from industry to the call in this respect However the recent period could be characterised as one of consolidation when those companies which have made the decision that formal development methods are important to their business have been adopting them where appropriate and finding them to be worthwhile On the other hand the difficult economic climate which exists in most parts of the developed world is perhaps not the context within which companies still dubious about the benefits are going to opt for making major changes in their working practices

Formal Aspects of Measurement Tim Denvir, Rosalind Herman, Robin Whitty, 2012-12-06 This book contains the eight invited papers presented at the workshop on Formal Aspects of Measurement held at South Bank University on 5th May 1991 organised by the British Computer Society's Special Interest Group on Formal Aspects of Computer Science FACS In addition there are five papers which have been included because of their relevance to the subject of the workshop The book represents something of a landmark in software engineering research The British Computer Society's Special Interest Group on Formal Aspects of Computer Science FACS has an established reputation among researchers in formal methods of software specification design and validation These researchers have not in the past paid much attention to software measurement Perhaps software measurement research was felt to have emphasised its management potential at the expense of proper scientific foundations At any rate for the FACS group to host a workshop in this field is recognition of the significant body of formal measurement theories and techniques which has now become available to software engineers

Trends in Functional Programming Jeremy Gibbons, 2025-11-01 This book constitutes revised selected papers from the 26th International Symposium on Trends in Functional Programming TFP 2025 held in Oxford UK during January 13-16 2025 The 20 full papers and 2 invited papers presented in this volume were carefully reviewed and selected from 35 submissions They were categorized under the topical sections as follows Invited papers Language Design Compilation Semantics Types Program Synthesis Teaching

Hypermedia Design Sylvain

Fraisse, Franca Garzotto, Tomas Isakowitz, Jocelyne Nanard, Marc Nanard, 2012-12-06 This is the latest volume in the Workshops in Computing series and contains papers from the International Workshop on Hypermedia Design held in Montpellier France from 1-2 June 1995. The workshop aimed to provide a forum for researchers and practitioners from a variety of backgrounds to discuss the many facets of hypermedia design. Among the specific topics covered by the papers are design methods, multimedia modelling, higher structures in hypermedia design, spaces, user interface design for hypermedia, building distributed web applications, and hyperdialogs. The resulting volume provides a comprehensive overview of the state of the art in this important field. It will be of interest to researchers, practitioners, and students involved in any aspect of hypermedia design.

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