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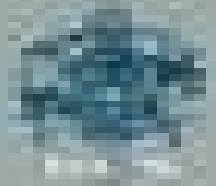

C. Rattray (Ed.)

Specification and Verification of Concurrent Systems

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Specification And Verification Of Concurrent Systems Workshops In Computing

Kevin Lano

Specification And Verification Of Concurrent Systems Workshops In Computing:

Specification and Verification of Concurrent Systems Charles Rattray,2013-11-11 This volume contains papers presented at the BCS FACS Workshop on Specification and Verification of Concurrent Systems held on 6 8 July 1988 at the University of Stirling Scotland Specification and verification techniques are playing an increasingly important role in the design and production of practical concurrent systems The wider application of these techniques serves to identify difficult problems that require new approaches to their solution and further developments in specification and verification The Workshop aimed to capture this interplay by providing a forum for the exchange of the experience of academic and industrial experts in the field Presentations included surveys original research practical experi ence with methods tools and environments in the following or related areas Object oriented process data and logic based models and specifi cation methods for concurrent systems Verification of concurrent systems Tools and environments for the analysis of concurrent systems Applications of specification languages to practical concurrent system design and development We should like to thank the invited speakers and all the authors of the papers whose work contributed to making the Workshop such a success We were particularly pleased with the international response to our call for papers Invited Speakers Pierre America Philips Research Laboratories University of Warwick Professor M Joseph David Freestone British Telecom Organising Committee Charles Rattray Dr Muffy Thomas Dr Simon Jones Dr John Cooke Professor Ken Turner Derek Coleman Maurice Naftalin Dr Peter Scharbach vi Preface We would like to aeknowledge the finaneial eontribution made by SD Sysems Designers pie Camberley Surrey *Formal Methods for Open Object-Based Distributed Systems* Paolo Ciancarini,Alessandro Fantechi,Roberto Gorrieri,2013-11-11 Formal Methods for Open Object Based Distributed Systems presents the leading edge in several related fields specifically object orientated programming open distributed systems and formal methods for object oriented systems With increased support within industry regarding these areas this book captures the most up to date information on the subject Many topics are discussed including the following important areas object oriented design and programming formal specification of distributed systems open distributed platforms types interfaces and behaviour formalisation of object oriented methods This volume comprises the proceedings of the International Workshop on Formal Methods for Open Object based Distributed Systems FMOODS sponsored by the International Federation for Information Processing IFIP which was held in Florence Italy in February 1999 Formal Methods for Open Object Based Distributed Systems is suitable as a secondary text for graduate level courses in computer science and telecommunications and as a reference for researchers and practitioners in industry commerce and government 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 Formal Object-Oriented Development Kevin Lano,2012-12-06 Formal Object Oriented Development provides a comprehensive overview of the use of formal object oriented methods it covers how and where they should be introduced into the development process how they can be introduced selectively for critical parts of an application and how to incorporate them effectively into existing deveopmental practices The text is extensively illustrated both with tutorial and self assessment excercises and with examples of industrial applications from the reactive systems domain This book will be of interest to academic and industrial researchers software engineering practitioners and consultants and will also provide invaluable reading material for students learning Z and VDM **Hybrid and Real-Time Systems** Oded Maler,1997-03-05 This book constitutes the refereed proceedings of the International Workshop on Hybrid and Real Time Systems HART 97 held in Grenoble France in March 1997 The volume presents 18 revised full papers and 9 short presentations carefully selected during a highly competitive evaluation process also included are full versions or abstracts of 7 invited papers or tutorials Hybrid Systems consist of digital devices interacting with analog environments thus the emerging area lies at the crossroads of computer science and control theory This book focusses on mathematically sound methods for the rigorous and systematic design and analysis of hybrid systems and real time systems *Advanced Information Systems Engineering* Panos Constantopoulos,John Mylopoulos,1996-05-03 This book presents the refereed proceedings of the 8th International Conference on Advanced Information Systems Engineering CAiSE 96 held in Herakleion Crete Greece in May 1996 The 30 revised full papers included in the book were selected from a total of some 100 submissions The book is organised in sections on CASE environments temporal and active database technologies experience reports interoperability in information systems formal methods in system development novel architectures workflow management and distributed information systems information modelling object oriented database design and semantic links and abstraction **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 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 functionf from integers to integers f x 1 x O fx x 1 i f x 1 x O fx x 2 ii 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 suchfexists Furthermore iff 0 1 andfO 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 1 **Software Engineer's Reference Book** John A McDermid,2013-10-22

Software Engineer s Reference Book provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of computer science and relevant mathematics Topics under this section include logic set theory Turing machines theory of computation and computational complexity Part II is a discussion of software development methods techniques and technology primarily based around a conventional view of the software life cycle Topics discussed include methods such as CORE SSADM and SREM and formal methods including VDM and Z Attention is also given to other technical activities in the life cycle including testing and prototyping The final part describes the techniques and standards which are relevant in producing particular classes of application The text will be of great use to software engineers software project managers and students of computer science *Model Checking Software* Matthew Dwyer,2003-06-29 This book constitutes the refereed proceedings of the 8th International SPIN Workshop held in Toronto Canada in May 2001 The SPIN model checker is one of the most powerful and popular systems for the analysis and verification of distributed and concurrent systems The 13 revised full papers presented together with one invited survey paper and three invited industrial experience reports were carefully reviewed and selected from 26 submissions Besides foundational issues of program analysis and formal verification the papers focus on tools for model checking and practical applications in a variety of fields **Embedded and Ubiquitous Computing - EUC 2005 Workshops** Tomoya Enokido,Lu Yan,Bin Xiao,Daeyoung Kim,Yuanshun Dai,Laurence T. Yang,2005-11-24 Annotation This book constitutes the refereed proceedings of the EUC 2005 workshops held in conjunction with the IFIP International Conference on Embedded and Ubiquitous Computing EUC 2005 in Nagasaki Japan in December 2005 The 132 revised full papers presented were carefully reviewed and selected from 352 submissions Topics covered by the five workshops are ubiquitous intelligence and smart worlds UISW 2005 network centric ubiquitous systems NCUS 2005 security in ubiquitous computing systems SecUbiq 2005 RFID and ubiquitous sensor networks USN 2005 and trusted and autonomic ubiquitous and embedded systems TAUES 2005

Formal Methods for Industrial Critical Systems Falk Howar,Jiří Barnat,2018-08-29 This book constitutes the proceedings of the 23rd International Conference on Formal Methods for Industrial Critical Systems FMICS 2018 held in Maynooth Ireland in September 2018 The 9 regular papers presented in this volume were carefully reviewed and selected from 17 submissions The book also contains two invited talks in full paper length In addition there are 8 invited contributions in honor of Susanne Graf Director of Research at VERIMAG Grenoble France on the occasion of her 60th birthday The aim of the FMICS conference series is to provide a forum for researchers who are interested in the development and application of formal methods in industry In particular FMICS brings together scientists and engineers who are active in the area of formal methods and interested in exchanging their experiences in the industrial usage of these methods The FMICS conference series also strives to promote research and development for the improvement of formal methods and tools for industrial

applications **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 andalso potential industrial users of Z Concurrency and Nets Klaus Voss,Hartmann J. Genrich,Grzegorz Rozenberg,2012-12-06 Concurrency and Nets is a special volume in the series Advances in Petri Nets Prepared as a tribute to Carl Adam Petri on the occasion of his 60th birthday it is devoted to an outstanding personality and his pioneering and fruitful scientific work Part I 70 pages of over 600 presents the congratulatory addresses and invited talks that were given at an Anniversary Colloquium The contributions of this part honor Carl Adam Petri and his work from many different perspectives Part II is a collection of invited papers discussing various aspects of the theme Concurrency and Nets These papers are contributed partly by researchers that were or are still associated with the Petri Institute at GMD and partly by researchers whose scientific work deals with Net Theory or related system models The topics range from basic theoretical aspects to application oriented methods 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 communica tions The selection was very strict for 121 submissions were received *CONCUR '91* Jos C.M. Baeten,1991-08-14 CONCUR 91 is the second international conference on concurrency theory organized in association with the NFI project Transfer It is a sequel to the CONCUR 90 conference Its basic aim is to communicate ongoing work in concurrency theory This proceedings volume contains 30 papers selected for presentation at the conference from 71 submitted together with four invited papers and abstracts of the other invited papers The papers are organized into sections on process algebras logics and model checking applications and specification languages models and net theory design and real time tools and probabilities and programming languages The proceedings of CONCUR 90 are available asVolume 458 of Lecture Notes in Computer Science PROCEEDINGS OF THE 24TH CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN – FMCAD 2024 Nina Narodytska,Philipp Rümmer,2024-10-01 Die Proceedings zur Konferenz Formal Methods in Computer Aided Design 2024 geben aktuelle Einblicke in ein spannendes Forschungsfeld Zum f nften Mal erscheinen die Beitr ge der Konferenzreihe Formal Methods in Computer Aided Design FMCAD als Konferenzband bei TU Wien Academic Press Der aktuelle Band der seit 2006 j hrlich veranstalteten Konferenzreihe pr sentiert in 35 Beitr gen neueste wissenschaftliche Erkenntnisse aus dem Bereich des computergest tzten Entwerfens Die Beitr ge behandeln formale Aspekte des computergest tzten Systemdesigns einschlie lich Verifikation Spezifikation Synthese und Test Die FMCAD Konferenz findet im Oktober 2024 in Prag Tschechische Republik statt Sie gilt als f hrendes Forum im Bereich des computer aided design und bietet seit ihrer Gr ndung Forschenden sowohl aus dem akademischen als auch dem industriellen Umfeld die M glichkeit sich auszutauschen und zu vernetzen Readings in Hardware/Software Co-Design Giovanni De Micheli,Rolf Ernst,Wayne Wolf,2002 This title serves as an introduction ans reference for the field with the papers that have shaped the hardware software co design since its inception in the early 90s *ACM Transactions on Software Engineering and Methodology* ,1997 **Advances in Petri Nets 1991** Helmut Plünnecke,Wolfgang Reisig,1991 The main idea behind the series of volumes Advances in Petri Nets is to present to the general computer science community recent results which are the most representative and significant for the development of the area Thepapers for the volumes are drawn mainly from the annual International Conferences on Applications and Theory of Petri Nets Selected papers from the latest conference are independently refereed and revised and extended as necessary Some further papers submitted directly to the editor are included Advances in Petri Nets 1991 covers the 11th International Conference on Applications and Theory of Petri Nets held

in Paris France in June 1991 The volume contains the Bibliography of Petri Nets 1990 prepared by H Pl nnecke and W Reisig with over 4000 entries PUBLISHER S WEBSITE **ZUM '98: The Z Formal Specification Notation** Jonathan P. Bowen,Andreas Fett,Michael G. Hinchey,2011-04-06 1 In a number of recent presentations most notably at FME 96 oneofthe foremost scientists in the eld of formal methods C A R Hoare has highlighted the fact that formal methods are not the only technique for producing reliable software This seems to have caused some controversy not least amongst formal methods practitioners How can one of the founding fathers of formal methods seemingly denounce the eld of research after over a quarter of a century of support This is a question that has been posed recently by some formal methods skeptics However Prof Hoare has not abandoned formal methods He is reiterating 2 albeitmoreradically his1987view thatmorethanonetoolandnotationwillbe requiredinthepractical industrialdevelopmentoflarge scalecomplexcomputer systems and not all of these tools and notations will be or even need be formal in nature Formalmethods arenotasolution butratheroneofaselectionoftechniques that have proven to be useful in the development of reliable complex systems and to result in hardware and software systems that can be produced on time and within a budget while satisfying the stated requirements After almostthree decades the time has come to view formalmethods in the context of overall industrial scale system development and their relationship to othertechniquesandmethods Weshouldnolongerconsidertheissueofwhether we are pro formal or anti formal but rather the degree of formality if any that we need to support in system development This is a goal of ZUM 98 the 11th International Conference of Z Users held for the rst time within continental Europe in the city of Berlin Germany

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