H. Langmaack W.-P. de Roever J. Vytopil (Eds.)

# Formal Techniques in Real-Time and Fault-Tolerant Systems

Third International Symposium Organized Jointly with the Working Group Provably Correct Systems – ProCoS Lubeck, Germany, September 1994 Proceedings







Springer-Verlag

Martin Steffen, Gianluigi Zavattaro

Formal Techniques in Real-Time and Fault-Tolerant Systems Mathai Joseph, 2003-07-31 This book constitutes the refereed proceedings of the 6th International Symposium on Formal Techniques in Real Time and Fault Tolerant Systems FTRTFT 2000 held in Pune India in September 2000 The 21 revised full papers presented together with three invited contributions were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on model checking fault tolerance scheduling validation verification logic and automata Formal Techniques in Real-Time and Fault-Tolerant Systems Werner Damm, Ernst-Rüdiger Olderog, 2003-06-30 This volume contains the proceedings of FTRTFT 2002 the International S posium on Formal Techniques in Real Time and Fault Tolerant Systems held at the University of Oldenburg Germany 9 12 September 2002 This sym sium was the seventh in a series of FTRTFT symposia devoted to problems and solutions in safe system design The previous symposia took place in Warwick 1990 Nijmegen 1992 Lub eck 1994 Uppsala 1996 Lyngby 1998 and Pune 2000 Proceedings of these symposia were published as volumes 331 571 863 1135 1486 and 1926 in the LNCS series by Springer Verlag This year the sym sium was co sponsored by IFIP Working Group 2 2 on Formal Description of Programming Concepts The symposium presented advances in the development and use of formal techniques in the design of real time hybrid fault tolerant embedded systems covering all stages from requirements analysis to hardware and or software plementation Particular emphasis was placed on UML based development of real time systems Through invited presentations links between the dependable systems and formal methods research communities were strengthened With the increasing use of such formal techniques in industrial settings the conference aimed at stimulating cross fertilization between challenges in industrial usages of formal methods and advanced research Inresponse to the call for papers 39 submissions were received Each submission was reviewed by four program committee members assisted by additional referees At the end of the reviewing process the program committee accepted 17 papers for Formal Techniques, Modelling and Analysis of Timed and Fault-Tolerant Systems Yassine presentation at the symposium Lakhnech, Sergio Yovine, 2004-12-07 This volume contains the proceedings of the joint conference on Formal M elling and Analysis of Timed Systems FORMATS and Formal Techniques in Real Time and Fault Tolerant Systems FTRTFT held in Grenoble France on September 22 24 2004 The conference united two previously independently ganized conferences FORMATS and FTRTFT FORMATS 2003 was organized asasatelliteworkshopofCONCUR2003andwasrelatedtothreeindependently started workshop series MTCS held as a satellite

event of CONCUR 2000 and CONCUR 2002 RT TOOLS held as a satellite event of CONCUR 2001 and FLoC 2002 and TPTS held at ETAPS 2002 FTRTFT is a symposium that was held seven times before in Warwick 1988 Nijmegen 1992 Lu beck 1994 Uppsala 1996 Lyngby 1998 Pune 2000 and Oldenburg 2002 The proceedings of these symposia were published as volumes 331 571 863 1135 1486 1926 and 2469 in the LNCS series by Springer Thisjointconferenceis

dedicated to the advancement of the theory and price of the modelling design and analysis of real time and fault tolerant systems Indeed computersystems are becoming increasingly widespread in real time and safety critical applications such as embedded systems Such systems are char terized by the crucial need to manage their complexity in order to produce reliable designs and implementations The importance of timing aspects p formance and fault tolerance is continuously growing Formal techniques o er a foundation for systematic design of complex systems. They have bene cial plications throughout the engineering process from the capture of requirements through speci cation design coding and compilation down to the hardware that embeds the system into its environment Formal Methods for the Design of Real-Time Systems Marco Bernardo, Flavio Corradini, 2004-09 This book presents the revised versions of nine invited lectures presented by leading researchers at the fourth edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFT 2004 held in Bertinoro Italy September 2004 SFM 2004 is devoted to real time systems The lectures presented cover formal models and languages for the specification modeling analysis and verification of time critical systems the expressiveness of such models and languages as well as supporting tools and related applications in different domains The book offers a unique and comprehensive state of the art survey on real time systems Researchers and advanced students will appreciate the book as a valuable source of reference and a systematic guide to the use of formal methods for the specification analysis and verification of real time systems Formal Techniques in Real-time and Fault-tolerant Systems, 2000 **Duration Calculus** Chaochen Zhou, Michael R. Hansen, 2013-03-14 Duration calculus constitutes a formal approach to the development of real time systems as an interval logic with special features for expressing and analyzing time durations of states in real time systems it allows for representing and formally reasoning about requirements and designs at an appropriate level of abstraction This book presents the logical foundations of duration calculus in a coherent and thorough manner Through selective case studies it explains how duration calculus can be applied to the formal specification and verification of real time systems The book also contains an extensive survey of the current research in this field The material included in this book has been used for graduate and postgraduate courses while it is also suitable for experienced <u>Unifying the Software Process Spectrum</u> Barry Boehm, 2005 This book constitutes the researchers and professionals thoroughly refereed post proceedings of the International Software Process Workshop SPW 2005 help in Beijing China in May 2005 The 30 papers presented here together with 11 keynote addresses are organized in topical sections on process content process tools and metrics process management process representation and analysis as well as experience reports

**Handbook of Networked and Embedded Control Systems** Dimitrios Hristu-Varsakelis, William S. Levine, 2007-11-14 The vast majority of control systems built today are embedded that is they rely on built in special purpose digital computers to close their feedback loops Embedded systems are common in aircraft factories chemical processing plants and even in cars a single high end automobile may contain over eighty different computers The design of embedded controllers and of

the intricate automated communication networks that support them raises many new questions practical as well as theoretical about network protocols compatibility of operating systems and ways to maximize the effectiveness of the embedded hardware This handbook the first of its kind provides engineers computer scientists mathematicians and students a broad comprehensive source of information and technology to address many questions and aspects of embedded and networked control Separated into six main sections Fundamentals Hardware Software Theory Networking and Applications this work unifies into a single reference many scattered articles websites and specification sheets Also included are case studies experiments and examples that give a multifaceted view of the subject encompassing computation and communication considerations Automated Technology for Verification and Analysis Doron A. Peled, Yih-Kuen Tsay, 2005-09-19 The Automated Technology for Veri cation and Analysis ATVA international symposium series was initiated in 2003 responding to a growing interest in formal veri cation spurred by the booming IT industry particularly hardware design and manufacturing in East Asia Its purpose is to promote research on automated veri cation and analysis in the region by providing a forum for int action between the regional and the international research industrial commu ties of the eld ATVA 2005 the third of the ATVA series was held in Taipei Taiwan October 4 7 2005 The main theme of the symposium encompasses sign complexities tools and applications of automated methods for veri cation and analysis The symposium was co located and had a two day overlap with FORTE 2005 which was held October 2 5 2005 We received a total of 95 submissions from 17 countries Each submission was assigned to three Program Committee members who were helped by their subreviewers for rigorous and fair evaluation The nal deliberation by the P gram Committee was conducted over email for a duration of about 10 days after nearly all review reports had been collected In the end 33 papers were lectedforinclusionintheprogram ATVA2005hadthreekeynotespeechesgiven respectively by Amir Pnueli joint with FORTE 2005 Zohar Manna and Wo gang Thomas The main symposium was preceded by a tutorial day consisting of three two hour lectures given also by the keynote speakers Fault-Tolerant Control of Nondeterministic Input/Output Automata Yannick Nke, 2013 This book presents novel methods of fault tolerant control theory in a discrete event system framework Nondeterministic input output automata are used to model nominal and faulty technological systems The main contributions are the following Control design method for discrete event systems Fault modeling technique for actuator sensor and system internal faults and failures Off line and on line control reconfiguration based on trajectory re planning and input output adaptation Two small size running examples are used to explain the developed methods Experiments on a manufacturing cell demonstrate the application of these methods in a realistic environment The state of the art is provided on methods for modeling supervisory control and fault tolerant control of discrete event systems **Formal Methods and Software Engineering** Jin Song Dong, Jim Woodcock, 2003-10-27 This book constitutes the refereed proceedings of the 5th International Conference on Formal Engineering Methods ICFEM 2003 held in Singapore in November 2003 The 34 revised

full papers presented together with 3 invited contributions were carefully reviewed and selected from 91 submissions The papers are organized in topical sections on testing and validation state diagrams PVS HOL refinement hybrid systems Z Object Z Petri nets timed automata system modelling and checking and semantics and synthesis **Unifying Theories of Programming** Steve Dunne, Bill Stoddart, 2006-06-22 This book constitutes the thoroughly refereed post proceedings of the First International Symposium on Unifying Theories of Programming UTP 2006 held at Walworth Castle County Durham UK in February 2006 The book presents 14 revised full papers Based on the pioneering work on unifying theories of programming by Tony Haare and Jifeng He UTP 2006 focused on the most significant results and raised awareness of the Tools and Algorithms for the Construction and Analysis of Systems Tiziana benefits of unifying theoretical frameworks Margaria, Wang Yi, 2003-06-29 This book constitutes the refereed proceedings of the 7th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2001 The 36 revised full papers presented together with an invited contribution were carefully reviewed and selected from a total of 125 submissions The papers are organized in sections on symbolic verification infinite state systems deduction and abstraction application of model checking techniques timed and probabilistic systems hardware design and verification software verification testing techniques and tools implementation techniques semantics and compositional verification logics and model checking and ETAPS tool demonstration Formal Methods for Open Object-Based Distributed Systems Martin Steffen, Gianluigi Zavattaro, 2005-06-03 This book constitutes the refereed proceedings of the 7th IFIP WG 6 1 International Conference on Formal Methods for Open Object Based Distributed Systems FMOODS 2005 held in Athens Greece on June 15 17 2005 The FMOODS conference was held as a joint event in federation with the 5th IFIP WG 6 1 International Conference on Distributed Applications and Interoperable Systems DAIS 2005 The 19 revised full papers presented together with an invited paper were carefully reviewed and selected from 91 submissions. The papers are organized in topical sections on models and calculi UML security composition and verification analysis of java programs Web services specification and verification

Euro-Par 2002. Parallel Processing Burkhard Monien,2002-08-21 This book constitutes the refereed proceedings of the 8th European Conference on Parallel Computing Euro Par 2002 held in Paderborn Germany in August 2002 The 67 revised full papers and 55 research note papers presented together with 6 invited papers were carefully reviewed and selected from 265 submissions The papers presented give a unique survey of the state of the art in parallel computing research ranging from algorithms software hardware and application in various fields **FME 2001: Formal Methods for Increasing Software Productivity** Jose N. Oliveira,2001-02-28 This book constitutes the refereed proceedings of the International Symposium of Formal Methods Europe FME 2001 held in Berlin Germany in March 2001 The 32 revised full papers presented together with abstracts of three invited talks were carefully reviewed and selected from a total of 72 submissions Focusing on increasing software productivity all current aspects in formal methods are covered Among the application areas

addressed are avionics smart cards financial engineering E commerce middleware security telecommunications etc Modelling, Analysis and Design of Hybrid Systems S. Engell, G. Frehse, E. Schnieder, 2003-07-01 In 1995 the Deutsche Forschungsgemeinschaft DFG the largest public research funding organization in Germany decided to launch a priority program Schw punktprogramm in German called Kondisk Dynamics and Control of Systems with Mixed Continuous and Discrete Dynamics Such a priority program is usually sponsored for six years and supports about twenty scientists at a time in engineering and computers cience mostly young researchers working for a doctoral degree. There is a yearly competition across all disciplines of arts and sciences for the funding of such programs and the group of proposers was the happy winner of a slot in that year The program started in 1996 after an open call for proposals the successful projects were presented and re evaluated periodically and new projects could be submitted simultaneously During the course of the focused research program 25 different projects were funded in 19 participating university institutes some of the projects were collaborative efforts of two groups with different backgrounds mostly one from engineering and one from computer science There were two main motivations for establishingKondisk The rst was the fact that technical systems nowadays are composed of physical components with mostly continuous dynamics and computerized control systems where the reaction to discrete events plays a major role implemented in Programmable Logic Contr lers PLCs Distributed Control Systems DCSs or real time computer **Embedded Software** Thomas A. Henzinger, Christoph M. Kirsch, 2003-06-30 With the omnipresence of micro systems devices in our daily lifes embedded software has gained tremendous importance in both science and industry This volume contains 34 invited papers from the First International Workshop on Embedded Systems They present latest research results from different areas of computer science that are traditionally distinct but relevant to embedded software development such as for example component based design functional programming real time Java resource and storage allocation verification Each paper focuses on one topic showing the inter relationship and application to the design and implementation of embedded software systems Software and Compilers for Embedded Systems Andreas Krall, 2003-09-16 This book constitutes the refereed proceedings of the 7th International Workshop on Software and Compilers for Embedded Systems SCOPES 2003 held in Vienna Austria in September 2003 The 26 revised full papers presented were carefully reviewed and selected from 43 submissions. The papers are organized in topical sections on code size reduction code selection loop optimizations automatic retargeting system design register allocation offset assignment analysis and profiling and memory **Learning Software Organizations. Methodology and Applications** Günther Ruhe, Frank and cache optimizations Bomarius, 2000-11-29 This book constitutes the thoroughly refereed and revised post conference documentation of the 11th International Conference on Software Engineering and Knowledge Engineering SEKE 99 held in Kaiserslautern Germany in June 1999 The book provides a unique overview of current activities approaches and trends in learning software organizations. The first part gives an overview on the topic covering foundations in the software engineering domain enabling techniques for organizational learning and learning support techniques. The second and the third part of the book on methodology and applications present thoroughly revised full papers of the most interesting papers on learning software organizations presented during SEKE 99 and its satellite workshop LSO 99

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