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Distributed, Embedded and Real-time Java Systems

 Springer

Distributed Embedded And Real Time Java Systems

Sociedade Brasileira de Computação

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Distributed Embedded And Real Time Java Systems:

Distributed, Embedded and Real-time Java Systems M. Teresa Higuera-Toledano, Andy J. Wellings, 2012-02-07 Research on real time Java technology has been prolific over the past decade leading to a large number of corresponding hardware and software solutions and frameworks for distributed and embedded real time Java systems This book is aimed primarily at researchers in real time embedded systems particularly those who wish to understand the current state of the art in using Java in this domain Much of the work in real time distributed embedded and real time Java has focused on the Real time Specification for Java RTSJ as the underlying base technology and consequently many of the Chapters in this book address issues with or solve problems using this framework Describes innovative techniques in scheduling memory management quality of service and communication systems supporting real time Java applications Includes coverage of multiprocessor embedded systems and parallel programming Discusses state of the art resource management for embedded systems including Java's real time garbage collection and parallel collectors Considers hardware support for the execution of Java programs including how programs can interact with functional accelerators Includes coverage of Safety Critical Java for development of safety critical embedded systems Reliable Software Technologies -- Ada-Europe 2013 Hubert B.

Keller, Erhard Plödereder, Peter Dencker, Herbert Klenk, 2013-05-27 This book constitutes the refereed proceedings of the 18th Ada Europe International Conference on Reliable Software Technologies Ada Europe 2013 was held in Berlin Germany in June 2013 The 11 full papers presented were carefully reviewed and selected from various submissions They are organized in topical sections on multi core and distributed systems Ada and Spark dependability and real time systems *Computer Science - CACIC 2020* Patricia Pesado, Jorge Eterovic, 2021-05-04 This book constitutes revised selected papers from the 26th Argentine Congress on Computer Science CACIC 2020 held in San Justo Buenos Aires Argentina in October 2020 Due to the COVID 19 pandemic the conference was held in a virtual mode The 21 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 118 submissions They were organized in topical sections named intelligent agents and systems distributed and parallel processing computer technology applied to education graphic computation images and visualization software engineering databases and data mining hardware architectures networks and operating systems innovation in software systems signal processing and real time systems innovation in computer science education computer security and digital governance and smart cities *Communicating Process Architectures 2002* World Occam and Transputer User Group. Technical Meeting, 2002 The WoTUG series of conferences are a major forum for the presentation of state of the art ideas on concurrency and communication This book continues this trend with these proceedings containing a number of papers that discuss a wide range of issues fundamental to the future of concurrency

Models, Algorithms, Logics and Tools Luca Aceto, Giorgio Bacci, Giovanni Bacci, Anna Ingólfssdóttir, Axel Legay, Radu Mardare, 2017-08-17 This Festschrift is published in honor of Kim Guldstrand Larsen one of the earliest precursors of

computer science in Denmark on the occasion of his 60th birthday During the last three decades Kim Guldstrand Larsen has given major contributions across a remarkably wide range of topics including real time concurrent and probabilistic models of computation logic in computer science and model checking Since 1995 he has been one of the prime movers behind the model checking tool for real time systems UPPAAL for which he was a co recipient of the CAV Award in 2013 The Festschrift contains 32 papers that feature the broad range of Kim Guldstrand Larsen s research topics such as formal languages and automata theory logic verification model checking and testing algorithmic game theory and mechanism design semantics and reasoning real time and distributed systems and modeling and simulation *Middleware 2005* Gustavo Alonso,2005-11-21 This book constitutes the refereed proceedings of the ACM IFIP USENIX International Conference on Distributed Systems Platforms *Middleware 2005* held in Grenoble France in November December 2005 The 18 revised full papers and 6 short papers presented were carefully reviewed and selected from 112 submissions The papers are organized in topical sections on security and privacy peer to peer computing XML and service discovery distribution and real time processing publish subscribe systems and content distribution and middleware architecture *On The Move to Meaningful Internet Systems 2003: OTM 2003 Workshops* R. Meersman,Zahir Tari,2003-10-30 This book constitutes the joint refereed proceedings of six international workshops held as part of OTM 2003 in Catania Sicily Italy in November 2003 The 80 revised full workshop papers presented together with various abstracts and summaries were carefully reviewed and selected from a total of 170 submissions In accordance with the workshops the papers are organized in topical main sections on industrial issues human computer interface for the semantic Web and Web applications Java technologies for real time and embedded systems regulatory ontologies and the modelling of complaint regulations metadata for security and reliable and secure middleware *On The Move to Meaningful Internet Systems 2003: OTM 2003 Workshops* Zahir Tari,2003-10-25 missions in fact also treat an envisaged mutual impact among them As for the 2002 edition in Irvine the organizers wanted to stimulate this cross pollination with a program of shared famous keynote speakers this year we got Sycara ble Soley and Mylopoulos and encouraged multiple attendance by providing authors with free access to another conference or workshop of their choice We received an even larger number of submissions than last year for the three conferences 360 in total and the workshops 170 in total Not only can we therefore again claim a measurable success in attracting a representative volume of scientific papers but such a harvest allowed the program committees of course to compose a high quality cross section of worldwide research in the areas covered In spite of the increased number of submissions the Program Chairs of the three main conferences decided to accept only approximately the same number of papers for presentation and publication as in 2002 i e around 1 paper out of every 4 5 submitted For the workshops the acceptance rate was about 1 in 2 Also for this reason we decided to separate the proceedings into two volumes with their own titles and we are grateful to Springer Verlag for their collaboration in producing these two books The reviewing process by the respective program committees was very professional and each

paper in the main conferences was reviewed by at least three referees Proceedings of the 12th International Symposium on System Synthesis ,1999 These proceedings cover real time and low power system design performance issues in system design memory design for embedded systems architectural synthesis and system design methodologies Proceedings of WORDS ... ,2002 Architectures, Languages and Techniques for Concurrent Systems World Occam and Transputer User Group. Technical Meeting,1999 **Real-Time Systems Symposium** American Society of Mechanical Engineers,2004

Concurrent and Real-Time Programming in Java Andrew Wellings,2004-11-22 Real time functionality is essential for developing many consumer industrial and systems devices While the C C programming language is most often used in the creation of real time software the Java language with its simple and familiar object oriented programming model offers many advantages over current real time practices Concurrent and Real Time Programming in Java covers the motivations for and semantics of the extensions and modifications to the Java programming environment that enable the Java platform Virtual Machine to meet the requirements and constraints of real time development Key aspects of concurrent and real time programming and how they are implemented in Java are discussed such as concurrency memory management real time scheduling and real time resource sharing *Proceedings* ,2005 **Real Time Programming 1997** International Federation of Automatic Control,1998 The 1997 IFAC IFIP Workshop on Real Time Programming represents the twenty second meeting of the Workshop since 1971 It has been sponsored by the International Federation of Automatic Control IFAC and the International Federation of Information Processing IFIP since 1974 This year it was held in Lyon France and was organised by the Laboratoire d'ingénierie de l'informatique industrielle L3i de l'Institut National des Sciences Appliquées de Lyon INSA Lyon These proceedings comprise the 19 full papers selected out of 35 submissions presented at the workshop the synthesis of the two forums and the extended abstracts of the invited speaker The Workshop provides an opportunity to assess the state of the art to present new results and to discuss possible lines of future developments This year a particular accent was given to Object Oriented researches in the field of real time programming It covered latest research and developments in architecture object oriented approach timing analysis scheduling and design plus a forum on Real Time Education **Languages, Compilers, and Tools for Embedded Systems** ,1998 Sixth International Workshop on Object-Oriented Real-Time Dependable Systems ,2001 The workshop on which this text is based integrates three key computer system engineering technologies CSETs Object oriented CSET Real time CSET and Dependable CSET for developing real time distributed and safety critical applications Real-Time Systems and Software Alan C. Shaw,2001-03-15 Emphasizing concepts and principles this book provides readers with an accessible approach to software design It presents several examples of commercial and research systems throughout the chapters to explain and justify the concepts And the material presented is technically diverse including discussions of state machines logic concurrent programming and scheduling algorithms **2002 Symposium on Applications and the Internet (SAINT)**

Workshops IEEE Computer Society, 2002 Papers from a winter 2002 symposium report on developments in Linux and Internet appliances applications that support the dissemination of information and collaboration within large communities measurement technology for Internet applications and Web services engineering Specific topics discussed

14th Symposium on Integrated Circuits and Systems Design Sociedade Brasileira de Computação, 2001 Annotation Papers from a September 2001 symposium report on recent advances in areas of integrated circuits and systems design including embedded systems rapid prototyping formal methods codesign CAD and test analog digital and physical design and low power and low voltage Specific topics include communication architectures for system on chip using the CAN protocol and reconfigurable computing technology for Web based smart house automation and optimizing BDD based verification analyzing variable dependencies Other subjects include interconnection length estimation at logic level an environment to aid the synthesis of threephase analogue waveform using AHDL and extending sequencing graphs for reconfigurable applications modeling This work lacks a subject index c Book News Inc

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