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LNCS 2231

# Software Frameworks and Embedded Control Systems



Springer

# Software Frameworks And Embedded Control Systems

**Joacim Rocklöv**



## **Software Frameworks And Embedded Control Systems:**

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Generative Programming and Component Engineering Frank Pfenning,2003-09-12 This book constitutes the refereed proceedings of the Second International Conference on Generic Programming and Component

Engineering GPCE 2003 held in Erfurt Germany in September 2003 The 21 revised full papers presented were carefully reviewed and selected from 62 submissions The papers are organized in topical sections on domain specific languages staged programming modeling to code aspect orientation meta programming and language extension automating design to code transitions principled domain specific approaches and generation and translation Component-Based Software Engineering Ian Gorton,George T. Heinemann,Ivica Crnkovic,Heinz W. Schmidt,Judith A. Stafford,Clemens Szyperski,Kurt Wallnau,2006-06-20 This is the refereed proceedings of the 9th International Symposium on Component Based Software Engineering CBSE 2006 held in V ster s Sweden in June July 2006 The 22 revised full papers and 9 revised short papers presented cover issues concerned with the development of software intensive systems from reusable parts the development of reusable parts and system maintenance and improvement by means of component replacement and customization Proceedings ,1997 Communicating Process Architectures 2008 P. H. Welch,2008 Communicating Process Architectures 2008 contains the proceedings of the thirty first Communicating Process Architectures Conference CPA 2008 organized under the auspices of WoTUG and the Department of Computer Science of the University of York The aim of this book is to cover both theoretical aspects and industrial applications of Communicating Processes Two invited speakers have given excellent contributions to this topic Professor Samson Abramsky has worked in the areas of semantics and logic of computation and concurrency His work on game semantics considers interaction and information flow between multiple agents and their environment This has yielded new approaches to compositional model checking and to analysis for programs with state concurrency probability and other features Professor Colin O Halloran has been instrumental in the uptake of formal methods in the development and verification of high assurance systems on an industrial scale His research interests are in automating the use of formal methods and using these techniques at reasonable cost and on an industrial scale **Space, Aviation's Next Frontier** ,2001 IEEE International Symposium on Industrial Electronics Proceedings ,2004 *Europhysics Conference on Control Systems for Experimental Physics, Villars-sur-Ollon, Switzerland, 28 September-2 October 1987* Berend Kuiper,1990 **Software Development** ,2004 *Proceedings of the IEEE International Symposium on Industrial Electronics* ,2005 Software Reuse ,2004 **Distributed Embedded Systems Engineering** ,2004 Interfacing Control and Software Engineering Klaas Brink,1997 **Generative Programming and Component Engineering** ,2003 *Europhysics Conference on Control Systems for Experimental Physics, Villars-sur-Ollon, Switzerland, 28 September-2 October 1987* ,1987 **Component-Based Software Development for Embedded Systems** Colin Atkinson,Christian Bunse,Hans-Gerhard Gross,Christian Peper,2005-11-19 Embedded systems are ubiquitous They appear in cell phones microwave ovens refrigerators consumer electronics cars and jets Some of these embedded s tems are safety or security critical such as in medical equipment nuclear plants and X by wire control systems in naval ground and aerospace transportation hicles With the continuing shift from hardware to software embedded systems are increasingly dominated by

embedded software Embedded software is complex Its engineering inherently involves a mul disciplinary interplay with the physics of the embedding system or environment Embedded software also comes in ever larger quantity and diversity The next generation of premium automobiles will carry around one gigabyte of binary code The proposed US DDX submarine is effectively a floating embedded software system comprising 30 billion lines of code written in over 100 programming languages Embedded software is expensive Cost estimates are quoted at around US 15 30 per line from commencement to shipping In the defense realm costs can range up to 100 while for highly critical applications such as the Space Shuttle the cost per line approximates 1 000 In view of the exponential increase in complexity the projected costs of future embedded software are staggering

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