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Software Frameworks and Embedded Control Systems



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Michael Brown



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Software Frameworks and Embedded Control Systems Alessandro Pasetti, 2002-01-29 Although framework technology has proven its worth as a software reuse technique in many domains there have been reservations regarding its application in embedded systems mostly due to limited CPU and memory resources Recent hardware advances however have changed this picture This book shows how object oriented software frameworks can be applied to embedded control systems A case study of a framework using a set of application dependent design patterns for the orbit control system of satellites is presented

Embedded Software Thomas A. Henzinger, Christoph M. Kirsch, 2003-06-30 With the omnipresence of micro devices in our daily lives 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 Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing Roger Lee, 2008-09-10 The 9th ACIS International Conference on Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing held in Phuket Thailand on August 6 8 2008 is aimed at bringing together researchers and scientist businessmen and entrepreneurs teachers and students to discuss the numerous fields of computer science and to share ideas and information in a meaningful way This publication captures 20 of the conference s most promising papers and we impatiently await the important contributions that we know these authors will bring to the field

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 **Software Reuse: Methods, Techniques, and Tools** Jan Bosch, Charles C.

Krueger, 2004-06-25 This book constitutes the refereed proceedings of the 8th International Conference on Software Reuse ICSR 8 held in Madrid Spain in July 2004 The 28 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on software variability requirements testing reusable software feature modeling aspect oriented software development component and service development code level reuse libraries classification and retrieval model based approaches transformation and generation and requirements **Software**

Engineering Krzysztof Zieliński, Tomasz Szmuc, 2005 The capability to design quality software and implement modern information systems is at the core of economic growth in the 21st century This book aims to review and analyze software engineering technologies focusing on the evolution of design and implementation platforms as well as on novel computer systems Communicating Process Architectures 2005 Jan F. Broenink, 2005 Modern computing systems work when all

components are correct by design and can be combined to achieve scalability This publication offers refereed papers covering various aspects such as system design and implementation tools concurrent programming languages libraries and run time kernels and formal methods and applications **Generative Programming and Component Engineering** Frank Pfenning, Yannis Smaragdakis, 2003-11-19 This volume constitutes the proceedings of the second International Conference on Generative Programming and Component Engineering GPCE 2003 held September 22-25 2003 in Erfurt Germany sponsored by the NetObjectDays German industrial software development event in cooperation with the ACM SIGPLAN and SIGSOFT societies GPCE was created as an effort to bring together researchers working on both the programming languages and the software engineering side of program generation and component engineering The common theme of program generation and component engineering is the domain specific nature of both approaches Depending on the characteristics of a domain either a generative or a compositional technical solution may be appropriate In just its second year GPCE has shown a lot of promise for building a strong community The response to the call for papers was excellent with 62 submissions to the technical program 2 of which were later withdrawn Each paper received between three and five reviews many of them quite thorough and hopefully valuable to all authors The electronic meeting allowed for depth of discussion of all submissions often to a much greater extent than possible in a physical PC meeting As a result 21 papers were selected for presentation at the conference and are included in this volume together with abstracts for the invited talks by Olivier Danvy and Peri Tarr Of the accepted papers 3 are co-authored by PC members from a total of 5 PC submissions We tried hard to ensure fairness and

hold PC submissions to a high standard The EDAS conference submission system was used to manage the paper submissions Our EDAS installation was supported by Blair MacIntyre who was particularly helpful in resolving technical issues with the system

Environmental Modelling, Software and Decision Support Anthony J. Jakeman, Alexey A. Voinov, Andrea E. Rizzoli, Serena H. Chen, 2008-09-11 The complex and multidisciplinary nature of environmental problems requires that they are dealt with in an integrated manner Modeling and software have become key instruments used to promote sustainability and improve environmental decision processes especially through systematic integration of various knowledge and data and their ability to foster learning and help make predictions This book presents the current state of the art in environmental modeling and software and identifies the future challenges in the field State of the art in environmental modeling and software theory and practice for integrated assessment and management serves as a starting point for researchers Identifies the areas of research and practice required for advancing the requisite knowledge base and tools and their wider usage Best practices of environmental modeling enables the reader to select appropriate software and gives the reader tools to integrate natural system dynamics with human dimensions

Reuse of Off-the-Shelf Components Maurizio Morisio, 2006-05-30 This book constitutes the refereed proceedings of the 9th International Conference on Software Reuse ICSR 2006 held in Torino Italy in June 2006 The book presents 27 revised full papers and 13 revised short papers carefully reviewed and selected from numerous submissions The Coverage includes COTS selection and integration product lines domain analysis and variability reengineering maintenance programming languages and retrieval aspect oriented software development approaches and models and components

Testing Software and Systems Burkhart Wolff, Fatiha Zaidi, 2011-10-21 This book constitutes the refereed proceedings of the 23rd IFIP WG 6.1 International Conference on Testing Software and Systems ICTSS 2011 held in Paris France in November 2011 The 13 revised full papers presented together with 2 invited talks were carefully selected from 40 submissions The papers address the conceptual theoretic and practical problems of testing software systems including communication protocols services distributed platforms middleware controllers and security infrastructures

Springer Handbook of Automation Shimon Y. Nof, 2009-07-16 Automation is undergoing a major transformation in scope and dimension and plays an increasingly important role in the global economy and in our daily lives Engineers combine automated devices with mathematical and organizational tools to create complex systems for a rapidly expanding range of applications and human activities This handbook incorporates these new developments and presents a widespread and well structured conglomeration of new emerging application areas of automation Besides manufacturing as a primary application of automation the handbook contains new application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics This Springer Handbook is not only an ideal resource for automation experts but also for people new to this expanding field such as engineers medical doctors computer scientists designers It is edited by an internationally renowned and experienced expert

Workshop Proceedings of the 8th International Conference on Intelligent Environments Juan A. Botía, Hedda Schmidtke, Tatsuo Nakashima, Mohammad R. Al-Mulla, Juan Carlos Augusto, Asier Aztiria, Matthew Ball, Victor Callaghan, Diane J. Cook, James Dooley, John O' Donoghue, Simon Egerton, Pablo A. Haya, Miguel J. Hornos, Eduardo Morales, Juan Carlos Orozco, Otniel Portillo-Rodriguez, Alejandro Rodrigues-González, Oscar Sandoval, Paolo Tripicchio, Minjuan Wang, Victor Zamudio, 2012 Intelligent environments IE play an increasingly important role in many areas of our lives including education healthcare and the domestic environment The term refers to physical spaces incorporating pervasive computing technology used to achieve specific goals for the user the environment or both This book presents the proceedings of the workshops of the 8th International Conference on Intelligent Environments IE 12 held in Guanajuato Mexico in June 2012 The workshops which make up the conference range from regular lectures to practical sessions They provide a forum for scientists researchers and engineers from both industry and academia to engage in discussions on newly emerging or rapidly evolving topics in the field Topics covered in the workshops include intelligent environments supporting healthcare and well being artificial intelligence techniques for ambient intelligence large scale intelligent environments intelligent domestic robots intelligent environment technology in education multimodal interfaces applied in skills transfer healthcare and rehabilitation the reliability of intelligent environments and improving industrial automation using intelligent environments IE can enrich user experience better manage the environment's resources and increase user awareness of that environment This book will be of interest to all those whose work involves the application of intelligent environments

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 Västerås 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

Interoperability of Heterogeneous IoT Platforms Carlos E. Palau, Giancarlo Fortino, Miguel Montesinos, George Exarchakos, Pablo Giménez, Garik Markarian, Valérie Castay, Flavio Fuart, Wiesław Pawłowski, Marina Mortara, Alessandro Bassi, Frans Gevers, Gema Ibáñez-Sánchez, Ignacio Huet, 2021-12-13 This book discusses the design and implementation of as well as experimentation on an open cross layer framework and associated methodology to provide voluntary interoperability among heterogeneous Internet of Things IoT platforms It allows readers to effectively and efficiently develop smart IoT applications for various heterogeneous IoT platforms spanning single and or multiple application domains To do so it provides an interoperable framework architecture for the seamless integration of different IoT architectures present in different application domains In this regard interoperability is pursued at various levels device network middleware services and data

Communicating Process Architectures 2009, 2009 This book is a collection of the papers presented at the

32nd Communicating Process Architecture conference CPA held at the Technical University Eindhoven the Netherlands from the 1st to the 4th of November 2009 Concurrency is a fundamental mechanism of the universe existing in all structures and at all levels of granularity To be useful in this universe any computer system has to model and reflect an appropriate level of abstraction For simplicity therefore the system needs to be concurrent so that this modeling is obvious and correct Today the commercial reality of multicore processors means that concurrency issues can no longer be ducked if applications are going to be able to exploit more than an ever diminishing fraction of their power This is a second but very forceful reason to take this subject seriously We need theory and programming technology that turns this around and makes concurrency an elementary part of the everyday toolkit of every software engineer This is what these proceedings are all about Subjects covered in this volume include system design and implementation for both hardware and software tools for concurrent programming languages libraries and run time kernels and formal methods and applications *Space, Aviation's Next Frontier*, 2001 **Proceedings**, 1997 The UML Profile for Framework Architectures Marcus Fontoura, Wolfgang Pree, Bernhard Rumpe, 2002 This book presents a set of principles for designing frameworks and practical techniques for adapting them efficiently It also describes how UML may be used to model frameworks and their applications and proposes a set of extensions to the UML which apply specifically to framework design

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