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Architecture of Reliable Web Applications Software Radaideh, Moh'd A. 2006-12-31

This book presents new concepts regarding reliability, availability, manageability, performance, scalability, and secured-ability of applications, particularly those that run over the key networks that integrate Web-based information system development projects, and indicates that to exploit the unprecedented opportunities offered by e-service applications, businesses and users alike need a highly available, reliable, and efficient telecommunication infrastructure.---Provided by publisher.

Design and Analysis of Distributed Embedded Systems Bernd Kleinjohann 2013-04-17

Design and Analysis of Distributed Embedded Systems is organized similar to the conference. Chapters 1 and 2 deal with specification methods and their analysis while Chapter 6 concentrates on timing and performance analysis. Chapter 3 describes approaches to system verification at different levels of abstraction. Chapter 4 deals with fault tolerance and detection. Middleware and software reuse aspects are treated in Chapter 5. Chapters 7 and 8 concentrate on the distribution related topics such as partitioning, scheduling and communication. The book closes with an eight chapter discussion on middleware frameworks.

Demystifying Embedded Systems Middleware Tammy Noergaard 2010-11-04

This practical technical guide to embedded middleware implementation offers a coherent framework that guides readers through all the key concepts necessary to gain an understanding of this broad topic. Big picture theoretical discussion is integrated with down-to-earth advice on successful real-world use via step-by-step examples of each type of middleware implementation. Technically detailed case studies bring it all together, by providing insight into typical engineering situations readers are likely to encounter. Expert author Tammy Noergaard keeps explanations as simple and readable as possible, explaining jargon and carefully defining acronyms. The start of each chapter includes a "setting the stage" section, so readers can take a step back and understand the context and applications of the information being provided. Core middleware, such as networking protocols, file systems, virtual machines, and databases; more complex middleware that builds upon generic pieces, such as MOM, ORB, and RPC; and integrated middleware software packages, such as embedded JVMs, .NET, and CORBA packages are all demystified. Embedded middleware theory and practice that will get your knowledge and skills up to speed Covers standards, networking, file systems, virtual machines, and more Get hands-on programming experience by starting with the downloadable open source code examples from book website

Embedded Firmware Solutions Vincent Zimmer 2015-02-03

Embedded Firmware Solutions is the perfect introduction and daily-use field guide—for the thousands of firmware designers, hardware engineers, architects, managers, and developers—to Intel’s new firmware direction (including Quark coverage), showing how to integrate Intel@ Architecture designs into their plans. Featuring hands-on examples and exercises using Open Source codebases, like Coreboot and EFI Development Kit (tianocore) and Chromebook, this is the first book that combines a tianocore firmware, as well as the new Quark firmware. The book addresses the development of reconfigurable embedded systems with in-depth coverage of requirements and optimization.

1394 Market and Technology Study

Distributed and Parallel Embedded Systems Franz J. Rammig 2013-03-09

Embedded systems are becoming one of the major driving forces in computer science. Furthermore, it is the impact of embedded information technology that dictates the pace in most engineering domains. Nearly all technical products above a certain level of complexity are not only controlled but increasingly even dominated by their embedded computer systems. Traditionally, such embedded control systems have been implemented in a monolithic, centralized way. Recently, distributed solutions are gaining increasing importance. In this approach, the control task is carried out by a number of controllers distributed over the entire system and connected by some interconnect network, like fieldbuses. Such a distributed embedded system may consist of a few controllers up to several hundred, as in today’s top-range automobiles. Distribution and parallelism in embedded systems design increase the engineering challenges and require new development methods and tools. This book is the result of the International Workshop on Distributed and Parallel Embedded Systems (DIPES’98), organized by the International Federation for Information Processing (IFIP) Working Groups 10.3 (Concurrent Systems) and 10.5 (Design and Engineering of Electronic Systems). The workshop took place in October 1998 in Schloss Elmau, near Fussen, Germany, and the resulting book reflects the most recent points of view from experts from Brazil, Finland, France, Germany, Italy, Portugal, and the USA. The book is organized in six chapters: 'Formalisms for Embedded System Design': IP-based system design and various approaches to multi-language formalisms. 'Synthesis from Synchronous/Asynchronous Specification': Synthesis techniques based on Message Sequence Charts (MSC), StateCharts, and Predicate/Transition Nets. 'Partitioning and Load-Balancing': Application in simulation models and target systems. 'Verification and Validation': Formal techniques for precise verification and more pragmatic approaches. 'Architectures': Multi-language formalisms. 'Partitioning and Load-Balancing': Application in simulation models and target systems. 'Verification and Validation': Formal techniques for precise verification and more pragmatic approaches. 'Architectures': Multi-language formalisms. 'Partitioning and Load-Balancing': Application in simulation models and target systems. 'Verification and Validation': Formal techniques for precise verification and more pragmatic approaches. 'Architectures': Multi-language formalisms. 'Partitioning and Load-Balancing': Application in simulation models and target systems. 'Verification and Validation': Formal techniques for precise verification and more pragmatic approaches. 'Architectures': Multi-language formalisms.

Reconfigurable Embedded Control Systems: Applications for Flexibility and Agility Khaliqi, Mohamed 2010-11-30

This book addresses the development of reconfigurable embedded control systems and describes various problems in this important research area, which include static and dynamic (manual or automatic) reconconfigurations, multi-agent architectures, modeling and verification, component-based approaches, architecture description languages, distributed reconfigurable architectures, real-time and low power scheduling, execution models, and the implementation of such systems.---

Plunkett's Infotech Industry Almanac 2009 Jack W. Plunkett 2009-02-01

Plunkett’s Infotech Industry Almanac presents a complete analysis of the technology business, including the convergence of hardware, software, entertainment and telecommunications. This market research tool includes our analysis of the major trends affecting the industry, from the soaring need for memory, to supercomputing, open source systems such as Linux, cloud computing and the role of nature. This unique review of firmware solutions for the rapidly evolving embedded ecosystem with in-depth coverage of requirements and optimization.

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understand comparisons of growth, expenditures, technologies, imports/exports, financial budget. Solutions on Embedded Systems documents results of several innovative approaches that provide intelligent solutions in embedded systems. The objective is to present mature approaches, to provide detailed information on the implementation and to discuss the results obtained.

Solution on Embedded Systems Massimo Conti 2011-04-11 Embedded systems have an increasing importance in our everyday lives. The growing complexity of embedded systems and the emerging trend to interconnections between them lead to new challenges. Intelligent solutions are necessary to overcome these challenges and to provide reliable and secure systems to the customer under a strict time and financial budget. Solutions on Embedded Systems documents results of several innovative approaches that provide intelligent solutions in embedded systems. The objective is to present mature approaches, to provide detailed information on the implementation and to discuss the results obtained.

Solution on Embedded Systems Richard Zurawski 2009 Evolutionary Algorithms for Embedded System Design Rolf Drechsler 2012-12-06 Evolutionary Algorithms for Embedded System Design describes how Evolutionary Algorithms (EAs) can be applied to problems in the field of embedded system design, especially in evolutionary design methods. Starting on a high-level abstraction, where software components are dominant, several optimization steps are demonstrated, including DSP code optimization and test generation. Throughout the book, EAs are tested on real-world application and large problem instances. For various applications, the main criteria for the successful application in the corresponding domain are discussed. In addition, contributions from leading international researchers provide the reader with a variety of perspectives, including a special focus on the combination of EAs with problem specific heuristics. Evolutionary Algorithms for Embedded System Design is an essential reference tool for researchers working in the area of circuit and system design and for researchers in the field of evolutionary concepts.

Web Systems 2010-02-26

Embedded Systems Handbook Richard Zurawski 2009-06-25 Considered a standard industry resource, the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications, including those in automotive electronics, industrial automation systems, and building automation and control. Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again. Divided into two volumes to accommodate this growth, the Embedded Systems Handbook, Second Edition presents a comprehensive introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computing, embedded computing, design issues specific to secure embedded systems, and web services for embedded devices. Those interested in taking their work with embedded systems to the network level should complete their study with the second volume.

Software Engineering for Embedded Systems Robert Oshana 2013-04-01 This Expert Guide gives you the techniques and technologies in software engineering to optimally design and implement your embedded system. Written by experts with a solutions focus, this encyclopedic reference gives you an indispensable aid to
Embedded Software technology is of increasing importance for a wide range of industrial areas, such as aerospace, automotive, telecommunication, and manufacturing. This is due to the development of complex embedded systems and the need for good software architecture for an embedded system. Design practices to help make your embedded project successful Details on principles that are often a part of embedded systems, including digital signal processing, safety-critical principles, and development processes. Techniques for setting up a performance engineering strategy that involves modeling and simulation, system testing, and debugging. Embedded Systems Strategies for testing and deploying your embedded system, and ensuring quality development processes. Practical techniques for optimizing embedded software for performance, memory, and power. Advanced guidelines for developing software for embedded systems. The Handbook of Real-Time and Embedded Systems provides up-to-the-minute stock quotes. Bringing together researchers from both academia and industry, the Handbook of Real-Time and Embedded Systems provides a comprehensive view on this area of computer engineering with a currently comprehensive cover. The book includes contributions from: Frank Schirrmeister, Shelly Gretelein, Bruce Douglass, Erich Stgyer, Gary Stringham, Jean Labrosse, Jim Trudeau, Mike Broglioli, Mark Pitchford, Catalin Dan Udma, Markus Levey, Pete Wilson, Whit Walton, Inga Harries, Andrea McKay, Mark Kraeling and Robert Oshana. Road map of key problems/issues and references to their solution in the text. Review of core methods in the context of how to apply them Examples demonstrating timeless implementation details Short and to-the-point case studies show how key ideas can be implemented, the rationale for choices made, and design guidelines and trade-offs.

Embedded Systems Handbook

An Embedded Software Primer

An Embedded Software Primer

Making Embedded Systems


An Embedded Software Primer

Making Embedded Systems


Making Embedded Systems


Embedded Systems Design: Topics, Techniques and Trends
Achim Retterberg 2010-05-09
This volume presents the technical program of the 2007 International Embedded Systems Symposium held in Irvine, California. It covers timely topics, techniques and trends in embedded system design, including design methodology, networks-on-chip, distributed and networked systems, and system verification. It places emphasis on automotive and medical applications and includes studies and special aspects in embedded system design.

Model-Based Testing for Embedded Systems
Justyna Zander 2011-09-15 The experts have to say about Model-Based Testing for Embedded Systems: *"This is absolutely a must-read for anyone involved in the testing of embedded systems. Testing is critical to the success of embedded systems and the software used in them. It is also critical to the safe operation of the devices they control. Testing is an area with a lot of potential for innovation. The potential for innovation is also important to the needs of the industry, which is growing rapidly. The book provides a great deal of valuable information about testing in the context of model-based design. It is a valuable resource for anyone involved in the testing of embedded systems. The book is well-written, easy to read, and provides a lot of practical advice. It is a must-read for anyone involved in the testing of embedded systems." -Dr. Lionel C. Briland, IEEE Fellow, Simula Research Laboratory, Lysaker, Norway, and professor at the University of Oslo, Norway
"As model-based testing is entering the mainstream, such a comprehensive and intelligible book is a must-read for anyone looking for more information about improving software testing with model-based approaches. Model-based testing is a powerful technique for improving testing methods for embedded systems. The book provides a clear picture of what the state of the art is today." -Dr. Bruno Legeard, CTO of Smartesting, professor of Software Engineering at the University of Franche-Comté, Besançon, France, and co-author of Model-Based Testing for Embedded Systems

Real-Time Concepts for Embedded Systems
Qing Li 2003-01-04 '... a very good balance between the theory and practice of real-time embedded system designs.' -Jun-ichiro Itojun Hagino, Ph.D., Research Laboratory, Internet Initiative Japan Inc., IBN, '96 Operations Working Group (OSWP) co-chair
Plunkett's Companion to the Almanac of American Employers 2009 Jack W. Plunkett 2009-03-01 Plunkett's Companion to the Almanac of American Employers is the perfect complement to the highly-regarded main volume of The Almanac of American Employers. This mid-size firms companion book covers employers of all types from small (less than 50 employees) in single industry sectors (e.g. banking, insurance, retail) ranging from 2,500 or more employees). No other source provides this book's easy-to-understand comparisons of growth, corporate culture, salaries, benefits, pension plans and profit sharing at mid-size corporations. The book contains profiles of highly successful companies that are of vital importance to job-seekers of all types. It also enables readers to readily compare the growth potential and benefit plans of large employers. You'll see the financial record of each firm, along with the impact of earnings, sales and growth plans on each company's potential to provide a lucrative and lasting employment opportunity. Nearly five hundred of the most successful companies in the United States are profiled in the book. With tens of thousands of pieces of information, gathered from a wide variety of sources, have been researched for each corporation and are presented here in a unique form that can be easily understood by job seekers of all types. Purchasers of either the book or Plunkett's Almanac of American Employers can receive a free copy of the company profiles database on CD-ROM, enabling export of company names, human resource contacts, and addresses for mail merge and other uses.

Embedded Systems Design: Design, Middleware and Resources
Berk Kleinjohann 2008-07-10 This year, the IFIP Working Conference on Distributed and Parallel Systems (DIPES 2008) is held as part of the IFIP World Computer Congress. On September 16-19, 2008, the embedded systems world has a great deal of experience with parallel and distributed computing. Many embedded computing systems require the high performance that can be delivered by parallel computing. Parallel and distributed computing are often the only ways to deliver adequate real time performance at low power levels. This year's conference attracted 30 submissions, of which 21 were accepted. From Jörn G. Henkel of the University of Karlsruhe graciously contributed a keynote address on embedded computing and reliability. We would like to thank all of the program committee members for their diligence. Wayne Wolf, Bernd Kleinjohann, and Lisa Kleinjohann acknowledge financial support of the organization of the IFIP World Computer Congress 2008, especially the IPC Co Chairs Judith Bishop and Ivo De Lotto, the Organization Chair Giulio Occhini, as well as the Publications Chair John Impagliazzo. Further thanks go to the authors for their valuable contributions to DIPES 2008. Last but not least we would like to acknowledge, of course, the work done by our colleague Claudius Stern in preparing the proceedings of DIPES 2008.

Database Technologies: Concepts, Methodologies, Tools, and Applications
Erickson, John 2009-02-28 "This reference expands the full spectrum of database information with thorough four-views of in-depth, advanced research articles from nearly 300 of the world's leading professionals"--Provided by publisher.
Embedded Systems Design 2009
Component-Based Software Development for Embedded Systems Colin Atkinson 2005-12-12 This book provides a good opportunity for software engineering practitioners and researchers to get in sync with the current state-of-the-art and future trends in component-based embedded software research. The book is based on a selective compilation of papers that cover the complete component-based embedded software development process. This book is a natural complement to modeling and methodology aspects covered by the book include functional and non-functional specification, validation, verification, and component architecture. As tools are a critical success factor in the transfer from academia-generated knowledge to industry-ready technology, an important new development in this area is surveyed. The survey contains 16 carefully selected papers organized in topical sections on specification and verification, component compatibility, component architecture, implementation and tool support, as well as non-functional properties.

Component-Based Embedded Systems
Cooperating Embedded Systems and Wireless Sensor Networks
Michel Banatre 2010-01-05 A number of different system concepts have become apparent in the broader context of embedded systems over the past few years. While there are some differences, they share in common, particularly the important notions of control, heterogenity, wireless communication, dynamics/ad hoc nature and cost. The first part of the book covers cooperating object applications and the currently available application scenarios, such as control and automation, health care and surveillance. The second part discusses paradigms for algorithms and interactions. The third part covers various types of vertical system functions, including data aggregation, resource management and time synchronization. The fourth part outlines system architecture and programming models, outlining all currently available approaches for cooperating object applications. The fifth part discusses how to control and manage the complexity of cooperating object technology. Finally, the book concludes with a discussion of the trends guiding current research and gives suggestions as to possible future developments and how various shortcomings in the technology can be overcome.

Military Embedded Systems
BooqarLists | Directory of IT Systems & Services
Embedded Systems Handbook Richard Zurawski 2018-09-03 Considered a standard industry resource, the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of
diverse applications, including those in automotive electronics, industrial automated systems, and building automation and control. Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again. Divided into two volumes to accommodate this growth, the Embedded Systems Handbook, Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications. Those experts directly involved in the creation and evolution of the ideas and technologies presented offer tutorials, research surveys, and technology overviews that explore cutting-edge developments and deployments and identify potential trends. This first self-contained volume of the handbook, Embedded Systems Design and Verification, is divided into three sections. It begins with a brief introduction to embedded systems design and verification. It then provides a comprehensive overview of embedded processors and various aspects of system-on-chip and FPGA, as well as solutions to design challenges. The final section explores power-aware embedded computing, design issues specific to secure embedded systems, and web services for embedded devices. Those interested in taking their work with embedded systems to the network level should complete their study with the second volume: Network Embedded Systems.

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