

SystemC

Methodologies and Applications

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Foreword by

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Systemc Methodologies And Applications

Puja Mehta

SystemC Methodologies And Applications:

SystemC Wolfgang Müller,Wolfgang Rosenstiel,Jürgen Ruf,2003-05-31 This comprehensive survey on the state of the art of SystemC in industry and research is organised into 11 self contained chapters Selected SystemC experts present their approaches in the domains of modelling analysis and synthesis ranging from mixed signal and discrete system to embedded software

Design Methods and Applications for Distributed Embedded Systems

Bernd Kleinjohann,Guang R. Gao,Hermann Kopetz,Lisa Kleinjohann,Achim Rettberg,2006-04-11 The IFIP TC 10 Working Conference on Distributed and Parallel Embedded Systems DIPES 2004 brings together experts from industry and academia to discuss recent developments in this important and growing field in the splendid city of Toulouse France The ever decreasing price performance ratio of microcontrollers makes it economically attractive to replace more and more conventional mechanical or electronic control systems within many products by embedded real time computer systems An embedded real time computer system is always part of a well specified larger system which we call an intelligent product Although most intelligent products start out as stand alone units many of them are required to interact with other systems at a later stage At present many industries are in the middle of this transition from stand alone products to networked embedded systems This transition requires reflection and architecting The complexity of the evolving distributed artifact can only be controlled if careful planning and principled design methods replace the hoc engineering of the first version of many standalone embedded products

Languages for Embedded Systems and their Applications Martin Radetzki,2009-05-24 Embedded systems take over complex control and data processing tasks in diverse application fields such as automotive avionics consumer products and telecommunications They are the primary driver for improving overall system safety efficiency and comfort The demand for further improvement in these aspects can only be satisfied by designing embedded systems of increasing complexity which in turn necessitates the development of new system design methodologies based on specification design and verification languages The objective of the book at hand is to provide researchers and designers with an overview of current research trends results and application experiences in computer languages for embedded systems The book builds upon the most relevant contributions to the 2008 conference Forum on Design Languages FDL the premier international conference specializing in this field These contributions have been selected based on the results of reviews provided by leading experts from research and industry In many cases the authors have improved their original work by adding breadth depth or explanation

Formal Methods: Applications and Technology

Lubos Brim,Boudewijn Haverkort,Martin Leucker,Jaco van de Pol,2007-06-27 This book constitutes the thoroughly refereed joint post proceedings of the two International Workshops on Formal Methods for Industrial Critical Systems FMICS 2006 and on Parallel and Distributed Methods in Verification PDMC 2006 held in Bonn Germany in August 2006 in the course of the 17th International Conference on Concurrency Theory CONCUR 2006

Nanotechnology: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2014-02-28 Over the past

few decades devices and technologies have been significantly miniaturized from one generation to the next providing far more potential in a much smaller package The smallest of these recently developed tools are minuscule enough to be invisible to the naked eye Nanotechnology Concepts Methodologies Tools and Applications describes some of the latest advances in microscopic technologies in fields as diverse as biochemistry materials science medicine and electronics Through its investigation of theories applications and new developments in the nanotechnology field this impressive reference source will serve as a valuable tool for researchers engineers academics and students alike

Energy Harvesting Systems Tom J. Kaźmierski,Steve Beeby,2010-11-01 Kinetic energy harvesting converts movement or vibrations into electrical energy enables battery free operation of wireless sensors and autonomous devices and facilitates their placement in locations where replacing a battery is not feasible or attractive This book provides an introduction to operating principles and design methods of modern kinetic energy harvesting systems and explains the implications of harvested power on autonomous electronic systems design It describes power conditioning circuits that maximize available energy and electronic systems design strategies that minimize power consumption and enable operation The principles discussed in the book will be supported by real case studies such as battery less monitoring sensors at water waste processing plants embedded battery less sensors in automotive electronics and sensor networks built with ultra low power wireless nodes suitable for battery less applications

CyberPhysical Systems Kostas Siozios,Dimitrios Soudris,Elias Kosmatopoulos,2022-09-01 As systems continue to evolve they rely less on human decision making and more on computational intelligence This trend in conjunction to the available technologies for providing advanced sensing measurement process control and communication lead towards the new field of Cyber Physical System CPS Cyber physical systems are expected to play a major role in the design and development of future engineering platforms with new capabilities that far exceed today s levels of autonomy functionality and usability Although these systems exhibit remarkable characteristics their design and implementation is a challenging issue as numerous heterogeneous components and services have to be appropriately modeled and simulated together The problem of designing efficient CPS becomes far more challenging in case the target system has to meet also real time constraints CyberPhysical Systems Decision Making Mechanisms and Applications describes essential theory recent research and large scale usecases that addresses urgent challenges in CPS architectures In particular it includes chapters on Decision making for large scale CPS Modeling of CPS with emphasis at the control mechanisms Hardware software implementation of the control mechanisms Fault tolerant and reliability issues for the control mechanisms Cyberphysical user cases that incorporate challenging decision making

IEEE Circuits & Devices ,2005 Formal Methods and Software Engineering ,2003

First IEEE/ACM/IFIP International Conference on Hardware/Software Codesign & System Synthesis ,2003
Proceedings ,2004 CODES+ISSS ,2005 **Rapid Integration of Software Engineering Techniques** ,2004
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