

Distributed Information System as a System of Asynchronous Concurrent Processes

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Abstract. Nowadays enterprise information systems are designed as distributed network systems, where existing information systems and new components are connected together via a middleware. In most cases, architectures of the systems can be described informally or semi-formally by means of common design tools. But there are also critical applications where an information system is getting involved, and a formal architecture specification is necessary. This paper describes a design of a framework for distributed information systems with a mobile architecture and an outline of its implementation. The framework provides an automatic derivation of a formal specification from an implementation of system, without an explicit formal description in a design phase of project. The derived specification can be used for a quick formal proof of correctness after radical changes in an implementation phase, without a maintenance of a formal design.

1 Introduction

Nowadays information systems are in most cases designed as distributed network systems. A globalisation in a sphere of business creates need for decentralised systems with a correct data distribution, distributed processing, reservation of resources and a reliable communication infrastructure. The distributed information systems are designed as a network of communicating and partially independent components where each component performs its specific task, by itself or with help of other components. In this view, a process in the information system represents a group of components and a scheme of their interaction.

An architecture design of a distributed information system and its implementation can be very complex and difficult. Formal approaches can eliminate most failures by model checking, but they require a formal specification of architecture in a design phase of project. Unfortunately, many enterprise information systems aren't built "from scratch", they are developed as confederations of existing information systems reusing a well-established software products. In this case, a designer of a distributed information system hasn't a full control over an architecture design and a formal model often doesn't correspond to the real implementation of information system.

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Proceedings of the 2015 Federated Conference on Software Development and Object Technologies Jan Janech, Jozef Kostolny, Tomasz Gratkowski, 2016-12-14 This book presents the proceedings of the International Conference SDOT which was organized at the University of Ilzina Faculty of Management Sciences and Informatics Slovak Republic in November 19 2015 The conference was truly international both in terms of the amount of foreign contributions and in terms of composition of steering and scientific committees The book and the conference serves as a platform of professional exchange of knowledge and experience for the latest trends in software development and object oriented technologies theory and practice This proceedings present information on the latest developments and mediate the exchange of experience between practitioners and academia

Smart Modelling for Engineering Systems Margarita N. Favorskaya, Alena V. Favorskaya, Igor B. Petrov, Lakhmi C. Jain, 2021-01-30 This book is a collection of research papers selected for presentation at the International Conference on Smart Computational Methods in Continuum Mechanics 2021 organized by Moscow Institute of Physics and Technology and the Institute for Computer Aided Design of Russian Academy of Sciences The work is presented in two volumes The primary objective of the book is to report the state of the art on smart computational paradigms in continuum mechanics and explore the use of artificial intelligence paradigms such as neural nets and machine learning for improving the performance of the designed engineering systems The book includes up to date smart computational methods which are used to solve problems in continuum mechanics engineering seismic prospecting non destructive testing and so on The main features of the book are the research papers on the application of novel smart methods including neural nets and machine learning computational algorithms smart software systems and high performance computer systems for solving complex engineering problems The case studies pertaining to the real world applications in the above fields are included The book presents a collection of best research papers in English language from some of the world leaders in the field of smart system modelling and design of engineering systems

Information Systems Architecture and Technology: Proceedings of 37th International Conference on Information Systems Architecture and Technology - ISAT 2016 - Part III Jerzy Świątek, Zofia Wilimowska, Leszek Borzemski, Adam Grzech, 2016-09-23 This four volume set of books constitutes the proceedings of the 2016 37th International Conference Information Systems Architecture and Technology ISAT or ISAT 2016 for short held on September 18 20 2016 in Karpacz Poland The conference was organized by the Department of Management Systems and the Department of Computer Science Wrocław University of Science and Technology Poland The papers included in the proceedings have been subject to a thorough review process by highly qualified peer reviewers The accepted papers have been grouped into four parts Part I addressing topics including but not limited to systems analysis and modeling methods for managing complex planning environment and insights from Big Data research projects Part II discoursing about topics including but not limited to Web systems computer networks distributed

computing and multi agent systems and Internet of Things Part III discussing topics including but not limited to mobile and Service Oriented Architecture systems high performance computing cloud computing knowledge discovery data mining and knowledge based management Part IV dealing with topics including but not limited to finance logistics and market problems and artificial intelligence methods

Web Services Gustavo Alonso, Fabio Casati, Harumi Kuno, Vijay Machiraju, 2013-03-14 Like many other incipient technologies Web services are still surrounded by a tremendous level of noise This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be On the one hand multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services On the other hand the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term These factors make it extremely difficult to get a coherent picture of what Web services are what they contribute and where they will be applied Alonso and his co authors deliberately take a step back Based on their academic and industrial experience with middleware and enterprise application integration systems they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware necessary to meet the challenges of the Web and of B2B application integration Rather than providing a reference guide or a how to write your first Web service kind of book they discuss the main objectives of Web services the challenges that must be faced to achieve them and the opportunities that this novel technology provides Established as well as recently proposed standards and techniques e g WSDL UDDI SOAP WS Coordination WS Transactions and BPEL are then examined in the context of this discussion in order to emphasize their scope benefits and shortcomings Thus the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interesting in understanding and contributing to the evolution of enterprise application technologies

[Fundamentals Of Robotics: Linking Perception To Action](#) Ming Xie, 2003-04-11 Tomorrow's robots which includes the humanoid robot can perform tasks like tutoring children working as tour guides driving humans to and from work do the family shopping etc Tomorrow's robots will enhance lives in ways we never dreamed possible No time to attend the decisive meeting on Asian strategy Let your robot go for you and make the decisions Not feeling well enough to go to the clinic Let Dr Robot come to you make a diagnosis and get you the necessary medicine for treatment No time to coach the soccer team this week Let the robot do it for you Tomorrow's robots will be the most exciting and revolutionary things to happen to the world since the invention of the automobile It will change the way we work play think and live Because of this nowadays robotics is one of the most dynamic fields of scientific research These days robotics is offered in almost every university in the world Most mechanical engineering departments offer a similar course at both the undergraduate and graduate levels And increasingly many computer and electrical engineering departments are also offering it This book will guide you the curious beginner from yesterday to tomorrow The book will

cover practical knowledge in understanding developing and using robots as versatile equipment to automate a variety of industrial processes or tasks But the book will also discuss the possibilities we can look forward to when we are capable of creating a vision guided learning machine **Proceedings of Concurrent Engineering ... Conference** ,1995

Concurrent Engineering, a Global Perspective J. Paul Anand,Michael Sobolewski,1995 **Advanced Design and Manufacturing Technology I** Hun Guo,Dun Wen Zuo,Guo Xing Tang,2010-10-19 Special topic volume with invited peer reviewed papers only *Proceedings, 1986 ACM SIGSMALL/PC Symposium on Small Systems* ,1986 **Laboratory for Computer Science Progress Report** Massachusetts Institute of Technology. Laboratory for Computer Science,1979 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994 **Computerworld** ,1983-08-22 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Computer Systems Science and Engineering** ,1988 FUSION ... ,2002 *Proceedings* ,1995 *IBM Systems Journal* International Business Machines Corporation,1979 Solutions to Local Area Networks ,1990 *Proceedings of the First International Conference on Parallel and Distributed Information Systems* ,1991 High-Performance Client/Server Chris Loosley,Frank Douglas,1998 And he covers all the key topics with chapters on Middleware Architecture Design Tools Databases Replication Warehousing and Transaction Monitors **Science Abstracts** ,1993

Distributed Information System As A System Of Asynchronous Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Distributed Information System As A System Of Asynchronous**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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