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 semiformally 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 build "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 in ilina 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   *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 **Green IT: Technologies and Applications** Jae H. Kim,Myung J. Lee,2011-07-25 This book is the first of its kind in presenting comprehensive technical issues and solutions for rapidly growing Green IT It brings together in a single volume both green communications and green computing under the theme of Green IT and presents exciting research and developments taking place therein in a survey style Written by the subject matter experts consisting of an international team of recognized researchers and practitioners in the field Green IT Technologies and Applications will serve as an excellent source of information on the latest technical trend of Green IT for graduate undergraduate students researchers engineers and engineering managers in the IT Electrical Communications Computer Engineering Computer Science Information Science as well as interdisciplinary areas such as sustainability environment and energy The book comprises three parts Green Communications Green Computing and Smart Grid and Applications Part I Green Communications deals with energy efficient architectures and associated performance measures in wireless communications It covers energy issues in PHY MAC Routing Application layers and their solutions for a variety of networks Part II Green Computing deals with various energy issues in data centers computing clusters computing storage and associated optimization techniques Energy management strategies are presented to balance between energy efficiency and required qualities of services Part III Smart Grid and Applications presents an overview and research challenges for smart grid Applications include modeling of urban pollutant for transportation networks Wireless Sensor Network WSN architecture with long range radio and Green IT standards   Encyclopedia of Distance Learning, Second Edition Rogers, Patricia L.,Berg, Gary A.,Boettcher, Judith V.,Howard, Caroline,Justice, Lorraine,Schenk, Karen D.,2009-01-31 Offers comprehensive coverage of the issues concepts trends and technologies of distance learning   The Role of Metadata in the Orchestration of Web Services Marlen Krebs,2006-07-10 Diploma Thesis from the year 2006 in the subject Computer Science Software grade 1 3 Schmalkalden University of Applied Sciences language English abstract Orchestration is the study and practice of arranging music for an orchestra or musical ensemble In practical terms it consists of deciding which instruments should play which notes in a piece of music Wiki In musical terms the orchestra would be made up of Web services BPEL would be the sheet music and the business process manager BPM would be the composer that selects the necessary Web services and

decides how they should interact with each other Organizations use Web services in two broad categories Enterprise Application Integration EAI and Business to Business B2B e commerce as well as less complex scenarios such as technical functions and information services common services This thesis provides an insight on how the Web service standards resolve the limitations of conventional middleware and extend the benefits of process management to a wider scope of business problems Web service standards like SOAP XML WSDL and BPEL enable customers to solve integration problems easily by providing interoperability within a company or across multiple companies and improve B2B eCommerce and supply chain management by shifting to a service oriented paradigm in application development Web service orchestration provides an open standards base approach to create high level business processes such as workflows This thesis will focus on BPEL for describing the business logic although competing standards are still in use The steps for the workflow implementation will be explained on the basis of a sample procurement scenario *Proceedings of Concurrent Engineering ... Conference* ,1995 Proceedings, 1986 ACM SIGSMALL/PC Symposium on Small Systems ,1986 **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 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994 ACM Transactions on Computer Systems ,2002 **IBM Systems Journal** International Business Machines Corporation,1979 **Mastering Enterprise JavaBeans and the Java 2 Platform, Enterprise Edition** Ed Roman,1999-10-08 This book is a must have for developers who want to jumpstart their EJB development process Ed Roman shows the right way to use the J2EE technology with in depth examples and coding patterns from the real world We recommend this book as part of our education materials for both in house staff and customer engagements William W Lee Chief Technology Officer The Theory Center What some are calling the best thing to happen to enterprise programming since Java itself Enterprise JavaBeans EJB radically streamlines the server side application development process In this book you ll learn EJB from a developer s perspective the author cuts through the marketing hype and shows you both the good and the bad in developing real world EJB applications You ll learn everything you need to jumpstart your EJB development from understanding the basics of the EJB architecture to developing transactional scalable and secure multi user enterprise applications After reading this book you ll know how to Develop with both EJB 1 0 as well as the new EJB 1 1 standard Master the technologies that complement EJB Java RMI RMI IIOP JTA JNDI CORBA and XML E each of these topics is covered in full Develop with both bean types session beans stateful and stateless and entity beans bean managed and container managed persistent Design implement and deploy a real world e commerce system with a total of nine enterprise beans and seven Java servlets Avoid pitfalls that could make your code non portable across EJB servers Make an educated EJB server purchase decision The CD ROM provides you with An immense amount of sample code that you can extend for your own needs A trial of the BEA WebLogic EJB server for getting started right away On the companion Web site you ll find Updates to the book A treasure trove of links to EJB and

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    Proceedings of the ... IEEE International Conference On Systems, Man, and Cybernetics ,1986   **Proceedings of the 1986 IEEE International Conference on Systems, Man and Cybernetics** ,1986   **Advances in Object-Oriented Database Systems** Klaus R. Dittrich,1988-09-21 This volume collects papers presented at the 2nd International Workshop on Object Oriented Database Systems ooDBS II held at the Ebernburg near Bad M nster am Stein FRG in September 1988 It thus gives a comprehensive overview of the latest developments in this flourishing area of current database research Object oriented database systems have been approached with mainly two major intentions in mind namely to better support new application areas like CAD CAM office automation knowledge engineering and to overcome the impedance mismatch between data models and programming languages The notion of object orientation in database systems is thus a broader one than e g in the area of programming languages Structural object orientation provides for data model mechanisms that allow the direct representation and manipulation of highly structured entities behavioral object orientation cares for facilities to associate arbitrary user defined type specific operations with data entities finally full object orientation tries to combine the advantages of both categories Though data model concepts are the decisive feature of object oriented database systems numerous other system aspects have to be reconsidered or allow better solutions respectively in this light They include e g transactions implementation techniques optimization formalization the inclusion of rules and the integration with other systems A number of research prototypes and even some commercial systems are meanwhile available Both approaches to extend databases with object oriented capabilities and approaches to extend object oriented programming languages with database features have been and are being investigated   **Data Processing Digest** ,1988   *Who's who in Technology* Louann Chaudier,1986   Documentation Abstracts ,1997

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