


Jan Dünnweber
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Higher-Order Components for Grid Programming

Making Grids More Usable

 Springer

Higher Order Components For Grid Programming Making Grids More Usable

Arthur James Wells



Higher Order Components For Grid Programming Making Grids More Usable:

Higher-Order Components for Grid Programming Jan Dünneberger, Sergei Gorlatch, 2009-06-24 A major challenge in grid computing remains the application software development for this new kind of infrastructure Grid application programmers have to take into account several complicated aspects distribution of data and computations parallel computations on different sites and processors heterogeneity of the involved computers load balancing etc Grid programmers thus demand novel programming methodologies that abstract over such technical details while preserving the beneficial features of modern grid middleware For this purpose the authors introduce Higher Order Components HOCs HOCs implement generic parallel distributed processing patterns together with the required middleware support and they are offered to users via a high level service interface Users only have to provide the application specific pieces of their programs as parameters while low level implementation details such as the transfer of data across the grid are handled by the HOCs HOCs were developed within the CoreGRID European Network of Excellence and have become an optional extension of the popular Globus middleware The book provides the reader with hands on experience describing a broad collection of example applications from various fields of science and engineering including biology physics etc The Java code for these examples is provided online complementing the book The expected application performance is studied and reported for extensive performance experiments on different testbeds including grids with worldwide distribution The book is targeted at graduate students advanced professionals and researchers in both academia and industry Readers can raise their level of knowledge about methodologies for programming contemporary parallel and distributed systems and furthermore they can gain practical experience in using distributed software Practical examples show how the complementary online material can easily be adopted in various new projects

Encyclopedia of Parallel Computing David Padua, 2014-07-08 Containing over 300 entries in an A Z format the Encyclopedia of Parallel Computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing Topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field The Encyclopedia is broad in scope covering machine organization programming languages algorithms and applications Within each area concepts designs and specific implementations are presented The highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searches for immediate access to useful information Key concepts presented in the Encyclopedia of Parallel Computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as Cray supercomputers IBM s cell processor and Intel s

multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems Topics covered Speedup Efficiency Isoefficiency Redundancy Amdahls law Computer Architecture Concepts Parallel Machine Designs Benchmarks Parallel Programming concepts design Algorithms Parallel applications This authoritative reference will be published in two formats print and online The online edition features hyperlinks to cross references and to additional significant research Related Subjects supercomputing high performance computing distributed computing *The British National Bibliography* Arthur James Wells,2009 Component Deployment Wolfgang Emmerich,Alexander L. Wolf,2004-05-11 This book constitutes the refereed proceedings of the Second International Working Conference on Component Deployment CD 2004 held in Edinburgh UK in May 2004 The 16 revised full papers presented were carefully reviewed and selected from 34 submissions The papers address all relevant issues on component deployment once a software component has been developed in particular component customization component systems configuration component integration component activation component de activation and de commissioning **Making Grids Work** Marco Danelutto,Paraskevi Fragopoulou,Vladimir Getov,2008-08-06 Making Grids Work includes selected articles from the CoreGRID Workshop on Grid Programming Models Grid and P2P Systems Architecture Grid Systems Tools and Environments held at the Institute of Computer Science Foundation for Research and Technology Hellas in Crete Greece June 2007 This workshop brought together representatives of the academic and industrial communities performing Grid research in Europe Organized within the context of the CoreGRID Network of Excellence this workshop provided a forum for the presentation and exchange of views on the latest developments in Grid Technology research This volume is the 7th in the series of CoreGRID books Making Grids Work is designed for a professional audience composed of researchers and practitioners in industry This volume is also suitable for graduate level students in computer science Challenges and Opportunities of Healthgrids Vicente Hernández,Ignacio Blanquer,2006 The contributions of this publication follow mainly five main topics Medical Imaging on the Grid Ethical Legal and Privacy Issues on HealthGrids Bioinformatics on the Grid Knowledge Discovery on HealthGrids and Medical Assessment and HealthGrid Applications The maturity of the discipline of HealthGrids is clearly reflected on these subjects There are more contributions related to two main application areas Medical Imaging and Bioinformatics confirming the analysis of the HealthGrid White Paper published last year which outlined them as the two more promising areas for HealthGrids Along with these two areas the assessment on the results of HealthGrid applications also focused by several contributions denotes also the maturity of HealthGrids Finally the other two areas Knowledge Discovery and Ethical Legal and Privacy Issues focus on basic technologies which are very relevant for HealthGrids **Component Deployment** ,2004 *Grid Computing* Fran Berman,Geoffrey Fox,Anthony J. G. Hey,2003-04-18 Grid computing is applying the resources of many computers in a network to a single problem at the same time Grid computing appears to be a promising trend for three reasons 1 Its ability

to make more cost effective use of a given amount of computer resources 2 As a way to solve problems that can't be approached without an enormous amount of computing power 3 Because it suggests that the resources of many computers can be cooperatively and perhaps synergistically harnessed and managed as a collaboration toward a common objective A number of corporations professional groups university consortiums and other groups have developed or are developing frameworks and software for managing grid computing projects The European Community EU is sponsoring a project for a grid for high energy physics earth observation and biology applications In the United States the National Technology Grid is prototyping a computational grid for infrastructure and an access grid for people Sun Microsystems offers Grid Engine software Described as a distributed resource management tool Grid Engine allows engineers at companies like Sony and Synopsys to pool the computer cycles on up to 80 workstations at a time the Grid is a very hot topic generating broad interest from research and industry e.g. IBM Platform Avaki Entropia Sun HP Grid architecture enables very popular e-Science projects like the Genome project which demand global interaction and networking In recent surveys over 50% of Chief Information Officers are expected to use Grid technology this year Grid Computing Features contributions from the major players in the field Covers all aspects of grid technology from motivation to applications Provides an extensive state of the art guide in grid computing This is essential reading for researchers in Computing and Engineering physicists statisticians engineers and mathematicians and IT policy makers

Power Systems Resilience Naser Mahdavi Tabatabaei, Sajad Najafi Ravadanegh, Nicu Bizon, 2018-08-16 This book presents intuitive explanations of the principles and applications of power system resiliency as well as a number of straightforward and practical methods for the impact analysis of risk events on power system operations It also describes the challenges of modelling distribution networks optimal scheduling multi stage planning deliberate attacks cyber physical systems and SCADA based smart grids and how to overcome these challenges Further it highlights the resiliency issues using various methods including strengthening the system against high impact events with low frequency and the fast recovery of the system properties A large number of specialists have collaborated to provide innovative solutions and research in power systems resiliency They discuss the fundamentals and contemporary materials of power systems resiliency theoretical and practical issues as well as current issues and methods for controlling the risk attacks and other threats to AC power systems The book includes theoretical research significant results case studies and practical implementation processes to offer insights into electric power and engineering and energy systems Showing how systems should respond in case of malicious attacks and helping readers to decide on the best approaches this book is essential reading for electrical engineers researchers and specialists The book is also useful as a reference for undergraduate and graduate students studying the resiliency and reliability of power systems

Next Generation Internet United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1998

Grid Computing Marios D. Dikaiakos, 2004-12-07 This book constitutes the thoroughly refereed post

proceedings of the Second European AcrossGrid Conference AxGrids 2004 held in Nicosia Cyprus in January 2004 The 27 revised full papers and 4 revised short papers presented were carefully selected during two rounds of reviewing and improvement from 57 submissions The papers address the entire range of current topics in grid computing from computational and data grids to the semantic grid and grid application in various fields

Dissertation Abstracts International ,2007 Popular Science ,1988-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

Mother Jones Magazine ,1992-03 Mother Jones is an award winning national magazine widely respected for its groundbreaking investigative reporting and coverage of sustainability and environmental issues

Applied Information Systems Research Program (AISRP).

Workshop 2: Meeting Proceedings ,1992 *Web Portal Design, Implementation, Integration, and Optimization* Polgar, Jana,Adamson, Greg,2013-01-31 Web Portal Design Implementation Integration and Optimization discusses the challenges faced in building web services and integrating applications in order to reach the successful benefits web portals bring to an organization This collection of research aims to be a resource for researchers developers and industry practitioners involved in the technological business organizational and social dimensions of web portals

Design, User Experience, and Usability: Theory, Methodology, and Management Aaron Marcus,Wentao Wang,2017-06-28 The three volume set LNCS 10288 10289 and 10290 constitutes the proceedings of the 6th International Conference on Design User Experience and Usability DUXU 2017 held as part of the 19th International Conference on Human Computer Interaction HCII 2017 in Vancouver BC Canada in July 2017 jointly with 14 other thematically similar conferences The total of 1228 papers presented at the HCII 2017 conferences were carefully reviewed and selected from 4340 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 168 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in this three volume set LNCS 10288 The 56 papers included in this volume are organized in topical sections on design thinking and design philosophy aesthetics and perception in design user experience evaluation methods and tools user centered design in the software development lifecycle DUXU education and training LNCS 10289 The 56 papers included in this volume are organized in topical sections on persuasive and emotional design mobile DUXU designing the playing experience designing the virtual augmented and tangible experience wearables and fashion technology LNCS 10290 The 56 papers included in this volume are organized in topical sections on information design understanding the user DUXU for children and young users DUXU for art culture tourism and environment DUXU practice and case studies

Agent-Based Technologies and Applications for Enterprise Interoperability

Klaus Fischer, Jörg Müller, James J. Odell, 2009-04-30 The ATOP Agent Based Technologies and Applications for Enterprise Interoperability workshop series focuses on technologies that support interoperability in networked organizations on successful applications of these technologies and on lessons learned So far two ATOP workshops have been held at the AAMAS conferences in Utrecht The Netherlands in July 2005 and in Estoril Portugal in May 2008 The 13 papers presented here are extended versions of carefully reviewed and selected contributions to the workshops The topics covered are business interoperability organizations and virtual institutions modeling multiagent systems agent interaction and security The main goal was to collect approaches for the application of agent technologies in these areas Current trends in the development of agent technologies are compared with recent developments in service oriented and model driven system design with respect to their ability to solve interoperability problems [Government Reports Announcements & Index](#), 1995-10 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center, 1977

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