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GRID COMPUTING

A Research Monograph



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Grid Computing A Research Monograph

Puja Mehta



Grid Computing A Research Monograph:

Grid Computing, 2005 The book traces the evolution and progress of models of computation from clusters to grid computing The interesting journey of evolution of these models of computation in the past ten years at the Distributed and Object Systems Lab at IIT Madras reflects **Grid Computing Models** D. Janakiram, 2005 The book traces the evolution and progress of models of computation from clusters to grid computing The book includes among several other topics Anonymous Remote Computing ARC A programming model that provides a platform to enable sequential and parallel loads to coexist in a cluster environment **Handbook of Research in Mobile Business, Second Edition: Technical, Methodological and Social Perspectives** Unhelkar, Bhuvan, 2008-12-31 This book collects the latest research advances in the rapidly evolving field of mobile business Provided by publisher **Grid Computing** Radu Prodan, Thomas Fahringer, 2007-04-26 This monograph addresses four critical software development aspects for the engineering and execution of applications on parallel and Grid architectures A new directive based language called ZEN is proposed for compact specification of wide value ranges of interest for arbitrary application parameters The monograph contributes to various research areas related to integrated tool development for efficient engineering and high performance execution of scientific applications in Grid environments *Grid Computing - GRID 2002* Manish Parashar, 2003-07-01 The growth of the Internet and the availability of powerful computers and hi speed networks as low cost commodity components are changing the way we do computing These new technologies have enabled the clustering of a wide variety of geographically distributed resources such as supercomputers storage systems data sources and special devices and services which can then be used as a unified resource Furthermore they have enabled seamless access to and interaction among these distributed resources services applications and data The new paradigm that has evolved is popularly termed Grid computing Grid computing and the utilization of the global Grid infrastructure have presented significant challenges at all levels including application development programming models systems infrastructures and services networking and security and have led to the development of a global research community Grid 2002 is the third in a series of workshops developed to provide a forum for this growing Grid Computing research community Grid 2000 the first workshop in the series was chaired by Rajkumar Buyya and Mark Baker and was held in conjunction with HiPC 2002 in Bangalore India Grid 2001 Chair Craig A Lee and Grid 2002 were held in conjunction with Supercomputing the world's premier meeting for high performance computing **Algorithms and Architectures for Parallel Processing** Sang-Soo Yeo, Jong Hyuk Park, Laurence Tianruo Yang, Ching-Hsien Hsu, 2010-05-29 It is our great pleasure to present the proceedings of the symposia and workshops on parallel and distributed computing and applications associated with the ICA3PP 2010 conference These symposia and workshops provide vibrant opportunities for researchers and industry practitioners to share their research experience original research results and practical development experiences in the new challenging research areas of parallel and distributed computing technologies and applications It was

the first time that the ICA3PP conference series added symposia and workshops to its program in order to provide a wide range of topics that extend beyond the main conferences. The goal was to provide a better coverage of emerging research areas and also forums for focused and stimulating discussions. With this objective in mind we selected three workshops to accompany the ICA3PP 2010 conference: FPDC 2010 the 2010 International Symposium on Frontiers of Parallel and Distributed Computing, HPCTA 2010 the 2010 International Workshop on High Performance Computing Technologies and Applications, M2A 2010 the 2010 International Workshop on Multicore and Multithreaded Architectures and Algorithms. Each of the symposia/workshops focused on a particular theme and complemented the spectrum of the main conference. All papers published in the workshops proceedings were selected by the Program Committee on the basis of referee reports. Each paper was reviewed by independent referees who judged the papers for originality, quality, contribution, presentation, and consistency with the theme of the workshops.

Technologies and Protocols for the Future of Internet Design: Reinventing the Web Prakash Vidyarthi, Deo, 2012-02-29. The Internet has changed significantly from its beginnings as a simple network used to pass data from one computer to another. Containing essential tools for everyday information processing, the Internet is used by small and large organizations alike and continues to evolve with the changing information technology landscape. *Technologies and Protocols for the Future of Internet Design: Reinventing the Web* aims to provide relevant methods and theories in the area of the Internet design. It is written for the research community and professionals who wish to improve their understanding of future Internet technologies and gain knowledge of new tools and techniques in future Internet design.

Grid Computing: The New Frontier of High Performance Computing Lucio Grandinetti, 2005-11-15. The book deals with the most recent technology of distributed computing. As the Internet continues to grow and provide practical connectivity between users of computers, it has become possible to consider use of computing resources which are far apart and connected by Wide Area Networks. Instead of using only local computing power, it has become practical to access computing resources widely distributed. In some cases between different countries, in other cases between different continents. This idea of using computer power is similar to the well-known electric power utility technology. Hence the name of this distributed computing technology is the Grid Computing. Initially, grid computing was used by technologically advanced scientific users. They used grid computing to experiment with large-scale problems which required high-performance computing facilities and collaborative work. In the next stage of development, the grid computing technology has become effective and economically attractive for large and medium-size commercial companies. It is expected that eventually the grid computing style of providing computing power will become universal, reaching every user in industry and business. Written by academic and industrial experts who have developed or used grid computing, many proposed solutions have been tested in real-life applications. Covers most essential and technically relevant issues in grid computing.

Ant Colony Optimization Algorithm for Load Balancing in Grid Computing (UUM Press) Ku Ruhana Ku Mahamud, Aniza

Mohamed Din,2012-01-01 Managing resources in grid computing system is complicated due to the distributed and heterogeneous nature of the resources This research proposes an enhancement of the ant colony optimization algorithm that caters for dynamic scheduling and load balancing in the grid computing system The proposed algorithm is known as the enhance Ant Colony Optimization EACO The algorithm consists of three new mechanisms that organize the work of an ant colony i e initial pheromone value mechanism resource selection mechanism and pheromone update mechanism The resource allocation problem is modelled as a graph that can be used by the ant to deliver its pheromone This graph consists of four types of vertices which are job requirement resource and capacity that are used in constructing the grid resource management element The proposed EACO algorithm takes into consideration the capacity of resources and the characteristics of jobs in determining the best resource to process a job EACO selects the resources based on the pheromone value on each resource which is recorded in a matrix form The initial pheromone value of each resource for each job is calculated based on the estimated transmission time and execution time of a given job Resources with high pheromone value are selected to process the submitted jobs Global pheromone update is performed after the completion of processing the jobs in order to reduce the pheromone value of resources A simulation environment was developed using Java programming to test the performance of the proposed EACO algorithm against other ant based algorithm in terms of resource utilization Experimental results show that EACO produced better grid resource management solution

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

Handbook of Research on Deep Learning Techniques for Cloud-Based Industrial IoT Swarnalatha, P.,Prabu, S.,2023-07-03 Today s business world is changing with the adoption of the internet of things IoT IoT is helping in prominently capturing a tremendous amount of data from multiple sources Realizing the future and full potential of IoT devices will require an investment in new technologies The Handbook of Research on Deep Learning Techniques for Cloud Based Industrial IoT demonstrates how the computer scientists and engineers of today might employ artificial intelligence in practical applications with the emerging cloud and IoT technologies The book also gathers recent research works in emerging artificial intelligence methods and applications for processing and storing the data generated from the cloud based internet of things Covering key topics such as data cybersecurity blockchain and artificial intelligence this premier reference source is ideal for industry professionals engineers computer scientists researchers scholars academicians practitioners instructors and students

Mathematical Methods for Knowledge Discovery and Data Mining Felici, Giovanni,Vercellis, Carlo,2007-10-31 This book focuses on the mathematical models and methods that support most data mining applications and solution techniques covering such topics as association rules Bayesian methods data visualization kernel methods neural networks text speech and image recognition an invaluable resource for scholars and practitioners in the fields of biomedicine engineering finance manufacturing marketing performance measurement and telecommunications Provided by publisher

Parallel Computing Roman Trobec,Marián Vajteršic,Peter Zinterhof,2009-06-18 The use of parallel programming and architectures is essential for simulating and solving problems in modern computational practice There has been rapid progress in microprocessor architecture interconnection technology and software development which are increasing directly the rapid growth of parallel and distributed computing However in order to make these benefits usable in practice this development must be accompanied by progress in the design analysis and application aspects of parallel algorithms In particular new approaches from parallel numerics are important for solving complex computational problems on parallel and or distributed systems The contributions to this book are focused on topics most concerned in the trends of today s parallel computing These range from parallel algorithmics programming tools network computing to future parallel computing Particular attention is paid to parallel numerics linear algebra differential equations numerical integration number theory and their applications in computer simulations which together form the kernel of the monograph We expect that the book will be of interest to scientists working on parallel computing doctoral students teachers engineers and mathematicians dealing with numerical applications and computer simulations of natural phenomena

Grid-Computing Peter Tröger,2004

Trust and Security in Collaborative Computing Xukai Zou,Yuan-Shun Dai,Yi Pan,2008 Computer networks are compromised by various unpredictable factors such as hackers viruses spam faults and system failures hindering the full utilization of computer systems for collaborative

computing OCo one of the objectives for the next generation of the Internet It includes the functions of data communication resource sharing group cooperation and task allocation One popular example of collaborative computing is grid computing This monograph considers the latest efforts to develop a trusted environment with the high security and reliability needed for collaborative computing The important modules treated include secure group communication access control dependability grid computing key management intrusion detection and trace back In addition a real project for developing a nationwide medical information system with high dependability and security is described Sample Chapter s Chapter 1 Introduction 270 KB Contents Secure Group Communication SGC Cryptography Based Access Control Intrusion Detection and Defence Security in Grid Computing Trusted and Seamless Medical Information Systems Readership Graduate students academics and researchers in computer and information science networking and computer applications **Grid Resource**

Management Mumtaz Siddiqui,Thomas Fahringer,2010-01-30 In a dynamic computing environment such as the Grid resource management plays a crucial role for making distributed resources available on demand to anyone from anywhere at any time without undermining the resource autonomy this becomes an art when dealing with heterogeneous resources distributed under multiple trust domains spanning across the Internet Today Grid execution environments provide abstract workflow descriptions that need a dynamic mapping to actual deployments this further accentuates the importance of resource management in the Grid This monograph renders boundaries of the Grid resource management identifies research challenges and proposes new solutions with innovative techniques for on demand provisioning automatic deployments dynamic synthesis negotiation based advance reservation and capacity planning of Grid resources The Grid capacity planning is performed with multi constrained optimized resource allocations by modelling resource allocation as an on line strip packing problem and introducing a new solution that optimizes resource utilization and QoS while generating contention free solutions On demand resource provisioning becomes possible by simplifying abstract resource descriptions independent from the concrete installations The book further explains the use of the semantic web technologies in the Grid to specify explicit definitions and unambiguous machine interpretable resource descriptions for intelligent resource matching and synthesis the synthesis process generates new compound resources with aggregated capabilities and prowess The newly introduced techniques haven been developed and integrated in ASKALON Grid application development and runtime environment deployed in the Austrian Grid and demonstrated through well performed experiments **Numerical Geometry, Grid Generation and Scientific Computing** Vladimir A. Garanzha,Lennard Kamenski,Hang Si,2021-09-25 The focus of these conference proceedings is on research development and applications in the fields of numerical geometry scientific computing and numerical simulation particularly in mesh generation and related problems In addition this year s special focus is on Delaunay triangulations and their applications celebrating the 130th birthday of Boris Delaunay In terms of content the book strikes a balance between engineering algorithms and mathematical foundations It presents an overview of recent advances

in numerical geometry grid generation and adaptation in terms of mathematical foundations algorithm and software development and applications The specific topics covered include quasi conformal and quasi isometric mappings hyperelastic deformations multidimensional generalisations of the equidistribution principle discrete differential geometry spatial and metric encodings Voronoi Delaunay theory for tilings and partitions duality in mathematical programming and numerical geometry mesh based optimisation and optimal control methods Further aspects examined include iterative solvers for variational problems and algorithm and software development The applications of the methods discussed are multidisciplinary and include problems from mathematics physics biology chemistry material science and engineering

Intelligent Technologies for Information Analysis Ning Zhong, Jiming Liu, 2013-03-14 Intelligent Information Technology iiT encompasses the theories and applications of artificial intelligence statistical pattern recognition learning theory data warehousing data mining and knowledge discovery Grid computing and autonomous agents and multi agent systems in the context of today's as well as future IT such as Electronic Commerce EC Business Intelligence BI Social Intelligence SI Web Intelligence WI Knowledge Grid KG and Knowledge Community KC among others The multi author monograph presents the current state of the research and development in intelligent technologies for information analysis in particular advances in agents data mining and learning theory from both the theoretical and application aspects It investigates the future of information technology IT from a new intelligent IT iiT perspective and highlights major iiT related topics by structuring an introductory chapter and 22 survey research chapters into 5 parts 1 emerging data mining technology 2 data mining for Web intelligence 3 emerging agent technology 4 emerging soft computing technology and 5 statistical learning theory Each chapter includes the original work of the author's as well as a comprehensive survey related to the chapter's topic This book will become a valuable source of reference for R D professionals active in advanced intelligent information technologies Students as well as IT professionals and ambitious practitioners concerned with advanced intelligent information technologies will appreciate the book as a useful text enhanced by numerous illustrations and examples

Handling Priority Inversion in Time-Constrained Distributed Databases Shanker, Udai, Pandey, Sarvesh, 2020-02-14 In the computer science industry high levels of performance remain the focal point in software engineering This quest has made current systems exceedingly complex as practitioners strive to discover novel approaches to increase the capabilities of modern computer structures A prevalent area of research in recent years is scalable transaction processing and its usage in large databases and cloud computing Despite its popularity there remains a need for significant research in the understanding of scalability and its performance within distributed databases *Handling Priority Inversion in Time-Constrained Distributed Databases* provides emerging research exploring the theoretical and practical aspects of database transaction processing frameworks and improving their performance using modern technologies and algorithms Featuring coverage on a broad range of topics such as consistency mechanisms real time systems and replica management this book is

ideally designed for IT professionals computing specialists developers researchers data engineers executives academics and students seeking research on current trends and developments in distributed computing and databases Modern Methods in Scientific Computing and Applications Anne Bourlioux, Martin Gander, 2012-12-06 When we first heard in the spring of 2000 that the Seminaire de mathematiques superieures SMS was interested in devoting its session of the summer of 2001 its 40th to scientific computing the idea of taking on the organizational work seemed to us somewhat remote More immediate things were on our minds one of us was about to go on leave to the Courant Institute the other preparing for a research summer in Paris But the more we learned about the possibilities of such a seminar the support for the organization and also the great history of the SMS the more we grew attached to the project The topics we planned to cover were intended to span a wide range of theoretical and practical tools for solving problems in image processing thin films mathematical finance electrical engineering moving interfaces and combustion These applications alone show how wide the influence of scientific computing has become over the last two decades almost any area of science and engineering is greatly influenced by simulations and the SMS workshop in this field came very timely We decided to organize the workshop in pairs of speakers for each of the eight topics we had chosen and we invited the leading experts worldwide in these fields We were very fortunate that every speaker we invited accepted to come so the program could be realized as planned

Grid Computing A Research Monograph Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Grid Computing A Research Monograph**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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