

Resource Management In Le Computing Environments Modeling And Optimization In Science And Technologies

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Information Systems Design and Intelligent Applications Vikrant Bhateja 2018-03-01 The book is a collection of high-quality peer-reviewed

research papers presented at International Conference on Information System Design and Intelligent Applications (INDIA 2017) held at Duy Tan University, Da Nang, Vietnam during 15-17 June 2017. The book covers a wide range of topics of computer science and information technology discipline ranging from image processing, database application, data mining, grid and cloud computing, bioinformatics and many others. The various intelligent tools like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been well applied in different domains for solving various challenging problems.

Grid Resource Management Jarek Nabrzyski 2012-12-06 Grid Resource Management: State of the Art and Future Trends presents an overview of the state of the field and describes both the real experiences and the current research available today. Grid computing is a rapidly developing and changing field, involving the shared and coordinated use of dynamic, multi-

institutional resources. Grid resource management is the process of identifying requirements, matching resources to applications, allocating those resources, and scheduling and monitoring Grid resources over time in order to run Grid applications as efficiently as possible. While Grids have become almost commonplace, the use of good Grid resource management tools is far from ubiquitous because of the many open issues of the field, including the multiple layers of schedulers, the lack of control over resources, the fact that resources are shared, and that users and administrators have conflicting performance goals.

Advances in Service-Oriented and Cloud Computing Christian Zirpins 2021-03-13 This volume contains the technical papers presented in the workshops, PhD Symposium and EU Projects Track which took place at the 8th European Conference on Service-Oriented and Cloud Computing, ESOC 2020, held in

Heraklion, Crete, Greece, in September 2020: 1st International Workshop on Edge Adoption and Migration, EdgeWays 2020, 16th International Workshop on Engineering Service-Oriented Applications and Cloud Services, WESOACS 2020, ESOC 2020 PhD Symposium, ESOC 2020 EU Projects Track. Due to the COVID-19 pandemic the conference and workshops were held in a virtual format. The 17 full papers and 2 short papers were reviewed and selected from 22 submissions. The papers focus on specific topics in service-oriented and cloud computing domains such as limits and/or advantages of existing cloud solutions, future internet technologies, efficient and adaptive deployment and management of service-based applications across multiple clouds, novel cloud service migration practices and solutions, digitization of enterprises in the cloud computing era, federated cloud networking services.

Advances in Systems, Computing Sciences and

Software Engineering Tarek Sobh 2007-09-27
Advances in Systems, Computing Sciences and Software Engineering This book includes the proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS'05). The proceedings are a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of computer science, software engineering, computer engineering, systems sciences and engineering, information technology, parallel and distributed computing and web-based programming. SCSS'05 was part of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE'05) (www.cisse2005.org), the World's first Engineering/Computing and Systems Research E-Conference. CISSE'05 was the first high-caliber Research Conference in the world to be completely conducted online in real-time via the internet. CISSE'05 received 255

research paper submissions and the final program included 140 accepted papers, from more than 45 countries. The concept and format of CISSE'05 were very exciting and groundbreaking. The PowerPoint presentations, final paper manuscripts and time schedule for live presentations over the web had been available for 3 weeks prior to the start of the conference for all registrants, so they could choose the presentations they want to attend and think about questions that they might want to ask. The live audio presentations were also recorded and were part of the permanent CISSE archive, which also included all power point presentations and papers. SCSS'05 provided a virtual forum for presentation and discussion of the state-of-the-art research on Systems, Computing Sciences and Software Engineering.

Operations Research Applications in Natural Resources Management Kaveh Sheibani 2013-12-31 The use of operations research (OR) in natural resources management

(NRM) is an evolving research field with many application areas. Decision makers in NRM are often not aware of the possibilities that OR techniques offer them to solve their daily challenges. This special issue contributes to close this gap by showing how OR can be useful in different application areas of NRM.

TORUS 3 - Toward an Open Resource Using Services Dominique Laffly 2020-04-09 This book, presented in three volumes, examines environmental disciplines in relation to major players in contemporary science: Big Data, artificial intelligence and cloud computing. Today, there is a real sense of urgency regarding the evolution of computer technology, the ever-increasing volume of data, threats to our climate and the sustainable development of our planet. As such, we need to reduce technology just as much as we need to bridge the global socio-economic gap between the North and South; between universal free access to data (open data) and free software (open source). In this

book, we pay particular attention to certain environmental subjects, in order to enrich our understanding of cloud computing. These subjects are: erosion; urban air pollution and atmospheric pollution in Southeast Asia; melting permafrost (causing the accelerated release of soil organic carbon in the atmosphere); alert systems of environmental hazards (such as forest fires, prospective modeling of socio-spatial practices and land use); and web fountains of geographical data. Finally, this book asks the question: in order to find a pattern in the data, how do we move from a traditional computing model-based world to pure mathematical research? After thorough examination of this topic, we conclude that this goal is both transdisciplinary and achievable.

Resource Management of Mobile Cloud Computing Networks and Environments

Mastorakis, George 2015-03-31 As more and more of our data is stored remotely, accessing that data wherever and whenever it is needed is

a critical concern. More concerning is managing the databanks and storage space necessary to enable cloud systems. Resource Management of Mobile Cloud Computing Networks and Environments reports on the latest advances in the development of computationally intensive and cloud-based applications. Covering a wide range of problems, solutions, and perspectives, this book is a scholarly resource for specialists and end-users alike making use of the latest cloud technologies.

Emerging Innovations in Wireless Networks and Broadband Technologies Chilamkurti, Naveen 2016-03-29 Due to technological advancements in recent years, wireless systems have experienced significant improvements in reliability and performance. Now deeply integrated into daily life in modern society, these systems have become a widely studied topic. *Emerging Innovations in Wireless Networks and Broadband Technologies* is a pivotal reference source for the latest scholarly research on the

various applications and functionality of wireless technologies. Highlighting critical issues relating to network optimization and efficiency, this book is ideally designed for researchers, upper-level students, practitioners, and professionals interested in the recent developments within the field of wireless systems.

Place-Based Conservation William P. Stewart
2013-01-11 The concept of “Place” has become prominent in natural resource management, as professionals increasingly recognize the importance of scale, place-specific meanings, local knowledge, and social-ecological dynamics. *Place-Based Conservation: Perspectives from the Social Sciences* offers a thorough examination of the topic, dividing its exploration into four broad areas. *Place-Based Conservation* provides a comprehensive resource for researchers and practitioners to help build the conceptual grounding necessary to understand and to effectively practice place-based conservation.

Cases on Information Technology: Lessons Learned, Volume 7 Khosrow-Pour, D.B.A., Mehdi 2005-10-31 This volume is the latest addition to the *Cases on Information Technology Series*, a series which provides a collection of case studies focusing on IT implementation in organizations. The cases included in *Cases on Information Technology: Lessons Learned, Volume 7* cover a variety of IT initiatives, including enterprise systems, wireless technologies, rebuilding operating systems after destruction, and implementation within non-profit organizations. Each case includes integral information regarding organizations working with IT, including key individuals involved, intelligent steps taken or perhaps overlooked, and the final project outcomes. This volume is useful to IT managers and researchers, as it describes various scenarios of IT implementation and also unfortunate downfalls. Using the real-life situations as facilitators for classroom discussion, professors and students will benefit

as well from this collection of cases.

1st International Conference on Advances in Mineral Resources Management and Environmental Geotechnology Zacharias

Agioutantis 2004

Cloud Computing and Services Science Víctor

Méndez Muñoz 2019-08-09 This book constitutes extended, revised and selected papers from the 8th International Conference on Cloud Computing and Services Science, CLOSER 2018, held in Funchal, Portugal in March 2018. The 11 papers presented in this volume were carefully reviewed and selected from a total of 94 submissions. CLOSER 2018 is focused on the emerging area of Cloud Computing, inspired by some latest advances that concern the infrastructure, operations and available services throughout the global network.

Emerging Research in Cloud Distributed Computing Systems Bagchi, Susmit

2015-03-31 Traditional computing concepts are maturing into a new generation of cloud

computing systems with wide-spread global applications. However, even as these systems continue to expand, they are accompanied by overall performance degradation and wasted resources. Emerging Research in Cloud Distributed Computing Systems covers the latest innovations in resource management, control and monitoring applications, and security of cloud technology. Compiling and analyzing current trends, technological concepts, and future directions of computing systems, this publication is a timely resource for practicing engineers, technologists, researchers, and advanced students interested in the domain of cloud computing.

Sustainability in Natural Resources

Management and Land Planning Andréia Faraoni Freitas Setti 2021 This book includes contributions from scientists and representatives from government and non-governmental organisations working in the field of land management and use and on management of

fires. The book is truly interdisciplinary and has both a research and application-oriented dimension. The list of topics includes sustainability and water management; sustainability and biodiversity conservation; the future sustainability of nature-based industries such as agriculture, mining, tourism, fisheries and forestry; sustainability, people and livelihoods; sustainability and landscapes planning; sustainability and land use planning; handling and managing forest fires. The papers are innovative and cross-cutting, and many have practice-based experiences. Also, this book, prepared by the Inter-University Sustainable Development Research Programme (IUSDRP) and the World Sustainable Development Research and Transfer Centre (WSD-RTC), reiterates the need to promote a sustainable use of land resources today.

Mastering Cloud Computing Rajkumar Buyya
2013-04-05 Mastering Cloud Computing is designed for undergraduate students learning to

develop cloud computing applications. Tomorrow's applications won't live on a single computer but will be deployed from and reside on a virtual server, accessible anywhere, any time. Tomorrow's application developers need to understand the requirements of building apps for these virtual systems, including concurrent programming, high-performance computing, and data-intensive systems. The book introduces the principles of distributed and parallel computing underlying cloud architectures and specifically focuses on virtualization, thread programming, task programming, and map-reduce programming. There are examples demonstrating all of these and more, with exercises and labs throughout. Explains how to make design choices and tradeoffs to consider when building applications to run in a virtual cloud environment Real-world case studies include scientific, business, and energy-efficiency considerations

Proceedings of the International Conference

on Advanced Intelligent Systems and Informatics 2018 Aboul Ella Hassanien
2018-08-28 This book presents the proceedings of the 4th International Conference on Advanced Intelligent Systems and Informatics 2018 (AISI2018), which took place in Cairo, Egypt from September 1 to 3, 2018. This international and interdisciplinary conference, which highlighted essential research and developments in the field of informatics and intelligent systems, was organized by the Scientific Research Group in Egypt (SRGE). The book is divided into several main sections: Intelligent Systems; Robot Modeling and Control Systems; Intelligent Robotics Systems; Machine Learning Methodology and Applications; Sentiment Analysis and Arabic Text Mining; Swarm Optimizations and Applications; Deep Learning and Cloud Computing; Information Security, Hiding, and Biometric Recognition; and Data Mining, Visualization and E-learning.
Security Patterns in Practice Eduardo

Fernandez-Buglioni 2013-06-25 Learn to combine security theory and code to produce secure systems Security is clearly a crucial issue to consider during the design and implementation of any distributed software architecture. Security patterns are increasingly being used by developers who take security into serious consideration from the creation of their work. Written by the authority on security patterns, this unique book examines the structure and purpose of security patterns, illustrating their use with the help of detailed implementation advice, numerous code samples, and descriptions in UML. Provides an extensive, up-to-date catalog of security patterns Shares real-world case studies so you can see when and how to use security patterns in practice Details how to incorporate security from the conceptual stage Highlights tips on authentication, authorization, role-based access control, firewalls, wireless networks, middleware, VoIP, web services security, and more Author is well

known and highly respected in the field of security and an expert on security patterns. *Security Patterns in Practice* shows you how to confidently develop a secure system step by step.

End-User Computing: Concepts, Methodologies, Tools, and Applications

Clarke, Steve 2008-02-28 Covers the important concepts, methodologies, technologies, applications, social issues, and emerging trends in this field. Provides researchers, managers, and other professionals with the knowledge and tools they need to properly understand the role of end-user computing in the modern organization.

High Performance Computing and Grids in Action Lucio Grandinetti 2008-01-01 Collects in four chapters single monographs related to the fundamental advances in parallel computer systems and their developments from different points of view (from computer scientists, computer manufacturers, end users) and related

to the establishment and evolution of grids fundamentals, implementation and deployment. [Information Resources Management Plan of the Federal Government](#) 1991

Future Data and Security Engineering Tran Khanh Dang 2019-11-22 This book constitutes the proceedings of the 6th International Conference on Future Data and Security Engineering, FDSE 2019, held in Nha Trang City, Vietnam, in November 2019. The 38 full papers and 14 short papers presented together with 2 papers of keynote speeches were carefully reviewed and selected from 159 submissions. The selected papers are organized into the following topical headings: Invited Keynotes, Advanced Studies in Machine Learning, Advances in Query Processing and Optimization, Big Data Analytics and Distributed Systems, Deep Learning and Applications, Cloud Data Management and Infrastructure, Security and Privacy Engineering, Authentication and Access Control, Blockchain and Cybersecurity,

Emerging Data Management Systems and Applications, Short papers: Security and Data Engineering.

Seeking Sustainability in an Age of

Complexity Graham Harris 2007-06-14 Harris weaves together a unique story of the complexity of global and regional sustainability.

Monitoring, Simulation, and Management of Visitor Landscapes Howard Randal Gimblett

2008 "Conventional methods used in the planning and management of human-landscape interactions fall far short of the needs of today's land management professionals. *Monitoring, Simulation, and Management of Visitor Landscapes* presents a growing body of applied research that provides decision makers with tools to maintain the ecological integrity of public places by evaluating the impacts of humans in various landscapes across space and time." "This will help land managers and policy makers construct strategies for evaluating interactions between humans and the

environment and expand the model of land management to include social and geographic, as well as environmental, factors."--Jacket.

Ecological Modeling for Resource Management

Virginia H. Dale 2003 This book will serve as a readable introduction to ecological modeling for people involved in resource management and will also review models for specific applications of interest to more experienced modelers.

Successful uses of ecological models as well as discussions of important issues in modeling are addressed. The authors of this volume hope to close the gap between the state of the art in ecological modeling and the state of the practice in the use of models in management decision making.

Innovations in Smart Cities Applications

Edition 2 Mohamed Ben Ahmed 2019-02-06

This book highlights cutting-edge research presented at the third installment of the International Conference on Smart City Applications (SCA2018), held in Tétouan,

Morocco on October 10-11, 2018. It presents original research results, new ideas, and practical lessons learned that touch on all aspects of smart city applications. The respective papers share new and highly original results by leading experts on IoT, Big Data, and Cloud technologies, and address a broad range of key challenges in smart cities, including Smart Education and Intelligent Learning Systems, Smart Healthcare, Smart Building and Home Automation, Smart Environment and Smart Agriculture, Smart Economy and Digital Business, and Information Technologies and Computer Science, among others. In addition, various novel proposals regarding smart cities are discussed. Gathering peer-reviewed chapters written by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer and urban sciences; students and practitioners in computer science, information science, technology studies and urban

management studies will find it particularly useful. Further, the book is an excellent reference guide for professionals and researchers working in mobility, education, governance, energy, the environment and computer sciences.

Advances in Grid and Pervasive Computing
Ruixuan Li 2012-05-08 This book constitutes the refereed proceedings of the 7th International Conference on Grid and Pervasive Computing, GPC 2012, held in Hong Kong, China, in May 2012. The 9 revised full papers and 19 short papers were carefully revised and selected from 55 submissions. They are organized in topical sections on cloud computing, grid and service computing, green computing, mobile and pervasive computing, scheduling and performance, and trust and security. Also included are 4 papers presented at the 2012 International Workshop on Mobile Cloud and Ubiquitous Computing (Mobi-Cloud 2012) held in conjunction with GPC 2012.

Context-Aware Systems and Applications

Phan Cong Vinh 2017-04-10 This book constitutes the proceedings of the 5th International Conference on Context-Aware Systems and Applications, ICCASA 2016, held in Thu Dau Mot, Vietnam, in November 2016. The 22 revised full papers presented were carefully selected from 35 submissions and cover a wide spectrum in the area of Context-Aware-Systems (CAS). CAS is characterized by its self- facets such as self-organization, self-configuration, self-healing, self-optimization, self-protection, where context awareness used to dynamically control computing and networking functions. The overall goal of CAS is to realize nature-inspired autonomic systems that can manage themselves without direct human interventions.

Cases on the Human Side of Information Technology Khosrow-Pour, D.B.A., Mehdi 2006-04-30 The growth of modern information technology has created a challenge in the organizational and managerial areas of IT. While

technological advances often make tasks easier, the human side of a task is still affected. Cases on the Human Side of Information Technology provides many real-life examples of how organizations have handled human side issues in the overall utilization and management of IT. It presents information to assist educators and professionals in the implementation of strategies for the benefit of the company or organization.

Grid and Cloud Computing: Concepts, Methodologies, Tools and Applications

Management Association, Information Resources 2012-04-30 "This reference presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on Grid and Cloud Computing"--

Handbook of Research on Mathematical Modeling for Smart Healthcare Systems

Samanta, Debabrata 2022-06-24 Advances in healthcare technologies have offered real-time guidance and technical assistance for diagnosis,

monitoring, operation, and interventions. The development of artificial intelligence, machine learning, internet of things technology, and smart computing techniques are crucial in today's healthcare environment as they provide frictionless and transparent financial transactions and improve the overall healthcare experience. This, in turn, has far-reaching effects on economic, psychological, educational, and organizational improvements in the way we work, teach, learn, and provide care. These advances must be studied further in order to ensure they are adapted and utilized appropriately. The Handbook of Research on Mathematical Modeling for Smart Healthcare Systems presents the latest research findings, ideas, innovations, developments, and applications in the field of modeling for healthcare systems. Furthermore, it presents the application of innovative techniques to complex problems in the case of healthcare. Covering a range of topics such as artificial intelligence,

deep learning, and personalized healthcare services, this reference work is crucial for engineers, healthcare professionals, researchers, academicians, scholars, practitioners, instructors, and students.

Resource Management in Mobile Computing Environments

Constandinos X. Mavromoustakis 2014-06-09 This book reports the latest advances on the design and development of mobile computing systems, describing their applications in the context of modeling, analysis and efficient resource management. It explores the challenges on mobile computing and resource management paradigms, including research efforts and approaches recently carried out in response to them to address future open-ended issues. The book includes 26 rigorously refereed chapters written by leading international researchers, providing the readers with technical and scientific information about various aspects of mobile computing, from basic concepts to

advanced findings, reporting the state-of-the-art on resource management in such environments. It is mainly intended as a reference guide for researchers and practitioners involved in the design, development and applications of mobile computing systems, seeking solutions to related issues. It also represents a useful textbook for advanced undergraduate and graduate courses, addressing special topics such as: mobile and ad-hoc wireless networks; peer-to-peer systems for mobile computing; novel resource management techniques in cognitive radio networks; and power management in mobile computing systems.

Mobile Edge Computing Anwesha Mukherjee

Cloud Computing Jaydip Sen 2017-06-14 In the era of Internet of Things and with the explosive worldwide growth of electronic data volume, and associated need of processing, analysis, and storage of such humongous volume of data, it has now become mandatory to exploit the power of massively parallel architecture for fast

computation. Cloud computing provides a cheap source of such computing framework for large volume of data for real-time applications. It is, therefore, not surprising to see that cloud computing has become a buzzword in the computing fraternity over the last decade. This book presents some critical applications in cloud frameworks along with some innovation design of algorithms and architecture for deployment in cloud environment. It is a valuable source of knowledge for researchers, engineers, practitioners, and graduate and doctoral students working in the field of cloud computing. It will also be useful for faculty members of graduate schools and universities.

Advances in Grid and Pervasive Computing

Christophe Cérin 2007-06-21 This book constitutes the refereed proceedings of the Second International Conference on Grid and Pervasive Computing, GPC 2007, held in Paris, France in May 2007. It covers all aspects of grid and pervasive computing and focuses on topics

such as cluster computing, grid computing, semantic Web and semantic grid, service-oriented computing, peer-to-peer computing, mobile computing, as well as grid and pervasive related applications.

Design Technologies for Green and Sustainable Computing Systems

Partha Pratim Pande 2013-07-17 This book provides a comprehensive guide to the design of sustainable and green computing systems (GSC). Coverage includes important breakthroughs in various aspects of GSC, including multi-core architectures, interconnection technology, data centers, high performance computing (HPC), and sensor networks. The authors address the challenges of power efficiency and sustainability in various contexts, including system design, computer architecture, programming languages, compilers and networking.

[Security Designs for the Cloud, IoT, and Social Networking](#) Dac-Nhuong Le 2019-11-05 Security concerns around the rapid growth and variety of

devices that are controlled and managed over the Internet is an immediate potential threat to all who own or use them. This book examines the issues surrounding these problems, vulnerabilities, what can be done to solve the problems, investigating the roots of the problems and how programming and attention to good security practice can combat the threats today that are a result of lax security processes on the Internet of Things, cloud computing and social media.

Advanced Intelligent Systems for Sustainable Development (AI2SD'2018)

Mostafa Ezziyyani 2019-03-06 This book includes the outcomes of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2018), held in Tangier, Morocco on July 12-14, 2018. Presenting the latest research in the field of computing sciences and information technology, it discusses new challenges and provides valuable insights into the field, the goal being to

stimulate debate, and to promote closer interaction and interdisciplinary collaboration between researchers and practitioners. Though chiefly intended for researchers and practitioners in advanced information technology management and networking, the book will also be of interest to those engaged in emerging fields such as data science and analytics, big data, internet of things, smart networked systems, artificial intelligence, expert systems and cloud computing.

Computing in Environmental Resource Management 1997

Network and Parallel Computing Hai Jin
2004-10-14 This proceedings contains the papers presented at the 2004 IFIP International Conference on Network and Parallel Computing (NPC 2004), held at Wuhan, China, from October 18 to 20, 2004. The goal of the conference was to establish an international forum for engineers and scientists to present their ideas and experiences in network and parallel computing.

A total of 338 submissions were received in response to the call for papers. These papers were from Australia, Brazil, Canada, China, Finland, France, Germany, Hong Kong, India, Iran, Italy, Japan, Korea, Luxemburg, Malaysia, Norway, Spain, Sweden, Taiwan, UK, and USA. Each submission was sent to at least three reviewers. Each paper was judged according to its originality, innovation, readability, and relevance to the expected audience. Based on the reviews received, a total of 69 papers were accepted to be included in the proceedings. Among the 69 papers, 46 were accepted as full papers and were presented at the conference. We also accepted 23 papers as short papers; each of these papers was given an opportunity to have a brief presentation at the conference, followed by discussions in a poster session. Thus, due to the limited scope and time of the conference and the high number of submissions received, only 20% of the total submissions were included in the

nal program.

Inventive Approaches for Technology Integration and Information Resources Management

Khosrow-Pour, Mehdi 2014-06-30 Today's

management world continually relies on technological efficiency to function and perform at a high standard. As technology becomes a greater part in many fields, understanding and managing this factor is integral for organizations. *Inventive Approaches for Technology Integration and Information*

Resources Management provides an overview and analysis of knowledge management in sustainability, emergency preparedness, and IT, among other fields integral to the modern technological era. By providing a foundation for innovative practices in using technology and information resources, this publication is essential for practitioners and professionals, as well as undergraduate/graduate students and academicians.