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KEY=FOR - MCCULLOUGH DUDLEY

Cloud Computing and Services Science

6th International Conference, CLOSER 2016, Rome, Italy, April 23-25, 2016, Revised Selected Papers

Springer This book constitutes extended, revised and selected papers from the 6th International Conference on Cloud Computing and Services Science, CLOSER 2016, held in Rome, Italy, in April 2016. The 16 papers presented in this volume were carefully reviewed and selected from a total of 123 submissions. The volume also contains two invited papers. CLOSER 2016 focused on the emerging area of cloud computing, inspired by recent advances related to infrastructures, operations, and service availability through global networks. It also studied the influence of service science in this area.

Numerical Solution of Partial Differential Equations on Parallel Computers

Springer Science & Business Media Since the dawn of computing, the quest for a better understanding of Nature has been a driving force for technological development. Groundbreaking achievements by great scientists have paved the way from the abacus to the supercomputing power of today. When trying to replicate Nature in the computer's silicon test tube, there is need for precise and computable process descriptions. The scientific fields of Mathematics and Physics provide a powerful vehicle for such descriptions in terms of Partial Differential Equations (PDEs). Formulated as such equations, physical laws can become subject to computational and analytical studies. In the computational setting, the equations can be discretized for efficient solution on a computer, leading to valuable tools for simulation of natural and man-made processes. Numerical solution of PDE-based mathematical models has been an important research topic over centuries, and will remain so for centuries to come. In the context of computer-based simulations, the quality of the computed results is directly connected to the model's complexity and the number of data points used for the computations. Therefore, computational scientists tend to fill even the largest and most powerful computers they can get access to, either by increasing the size of the data sets, or by introducing new model terms that make the simulations more realistic, or a combination of both. Today, many important simulation problems can not be solved by one single computer, but calls for parallel computing.

High Performance Computing for Computational Science - VECPAR 2002

5th International Conference, Porto, Portugal, June 26-28, 2002. Selected Papers and Invited Talks

Springer The 5th edition of the VECPAR series of conferences marked a change of the conference title. The full conference title now reads VECPAR 2002 — 5th International Conference on High Performance Computing for Computational Science. This reflects more accurately what has been the main emphasis of the conference since its early days in 1993 - the use of computers for solving problems in science and engineering. The present postconference book includes the best papers and invited talks presented during the three

days of the conference, held at the Faculty of Engineering of the University of Porto (Portugal), June 26-28 2002. The book is organized into 8 chapters, which as a whole appeal to a wide research community, from those involved in the engineering applications to those interested in the actual details of the hardware or software implementation, in line with what, in these days, tends to be considered as Computational Science and Engineering (CSE). The book comprises a total of 49 papers, with a prominent position reserved for the four invited talks and the two first prizes of the best student paper competition.

R for Data Science

Import, Tidy, Transform, Visualize, and Model Data

"O'Reilly Media, Inc." Learn how to use R to turn raw data into insight, knowledge, and understanding. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible. Authors Hadley Wickham and Garrett Grolemund guide you through the steps of importing, wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how to: Wrangle—transform your datasets into a form convenient for analysis Program—learn powerful R tools for solving data problems with greater clarity and ease Explore—examine your data, generate hypotheses, and quickly test them Model—provide a low-dimensional summary that captures true "signals" in your dataset Communicate—learn R Markdown for integrating prose, code, and results

Invitation To Computer Science 4/e

Static Analysis

9th International Symposium, SAS 2002, Madrid, Spain, September 17-20, 2002. Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the 9th International Static Analysis Symposium, SAS 2002, held in Madrid, Spain in September 2002. The 32 revised full papers presented were carefully reviewed and selected from 86 submissions. The papers are organized in topical sections on theory, data structure analysis, type inference, analysis of numerical problems, implementation, data flow analysis, compiler optimizations, security analyses, abstract model checking, semantics and abstract verification, and termination analysis.

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Mobile Computing Techniques in Emerging Markets: Systems, Applications and Services

Systems, Applications and Services

IGI Global "This book provides the latest research and best practices in the field of mobile computing offering theoretical and pragmatic viewpoints on mobile computing"--Provided by publisher.

Library & Information Science Abstracts

Resources in Education

Six Sigma with R

Statistical Engineering for Process Improvement

Springer Science & Business Media Six Sigma has arisen in the last two decades as a breakthrough Quality Management Methodology. With Six Sigma, we are solving problems and improving processes using as a basis one of the most powerful tools of human development: the scientific method. For the analysis of data, Six Sigma requires the use of statistical software, being R an Open Source option that fulfills this requirement. R is a software system that includes a programming language widely used in academic and research departments. Nowadays, it is becoming a real alternative within corporate environments. The aim of this book is to show how R can be used as the software tool in the development of Six Sigma projects. The book includes a gentle introduction to Six Sigma and a variety of examples showing how to use R within real situations. It has been conceived as a self contained piece. Therefore, it is addressed not only to Six Sigma practitioners, but also to professionals trying to initiate themselves in this management methodology. The book may be used as a text book as well.

Scientific and Technical Aerospace Reports

Advances in Computer Science, Engineering & Applications

Proceedings of the Second International Conference on Computer Science, Engineering and Applications (ICCSEA 2012), May 25-27, 2012, New Delhi, India, Volume 1

Springer Science & Business Media The International conference series on Computer Science, Engineering & Applications (ICCSEA) aims to bring together researchers and practitioners from academia and industry to focus on understanding computer science, engineering and applications and to establish new collaborations in these areas. The Second International Conference on Computer Science, Engineering & Applications (ICCSEA-2012), held in Delhi, India, during May 25-27, 2012 attracted many local and international delegates, presenting a balanced mixture of intellect and research both from the East and from the West. Upon a strenuous peer-review process the best submissions were selected leading to an exciting, rich and a high quality technical conference program, which featured high-impact presentations in the latest developments of various areas of computer science, engineering and applications research.

ERDA Energy Research Abstracts

Computer Science and Scientific Computing

Proceedings of the Third ICASE Conference on Scientific Computing, Williamsburg, Virginia, April 1 and 2, 1976

Elsevier Computer Science and Scientific Computing contains the proceedings of the Third ICASE Conference on Scientific Computing held in Williamsburg, Virginia, on April 1 and 2, 1976, under the auspices of the Institute for Computer Applications in Systems Engineering at the NASA Langley Research Center. The conference provided a forum for reviewing all the aspects of scientific computing and covered topics ranging from computer-aided design (CAD) and computer science technology to the design of large hydrodynamics codes. Case studies in reliable computing are also presented. Comprised of 13 chapters, this book begins with an introduction to the use of the hierarchical family concept in the development of scientific programming systems. The discussion then turns to the data structures of scientific computing and their representation and management; some important CAD capabilities required to support aerospace design in the areas of interactive support, information management, and computer hardware advances as well as some computer science developments which may contribute significantly to making such capabilities possible; and the use of symbolic computation systems for problem solving in scientific research. Subsequent chapters deal with computer applications in astrophysics; the possibility of computing turbulence and numerical wind tunnels; and the basis for a general-purpose program for

finite element analysis. Software tools for computer graphics are also considered. This monograph will be of value to scientists, systems designers and engineers, and students in computer science who have an interest in the subject of scientific computing.

Database System Concepts

McGraw-Hill Education Database System Concepts by Silberschatz, Korth and Sudarshan is now in its 6th edition and is one of the cornerstone texts of database education. It presents the fundamental concepts of database management in an intuitive manner geared toward allowing students to begin working with databases as quickly as possible. The text is designed for a first course in databases at the junior/senior undergraduate level or the first year graduate level. It also contains additional material that can be used as supplements or as introductory material for an advanced course. Because the authors present concepts as intuitive descriptions, a familiarity with basic data structures, computer organization, and a high-level programming language are the only prerequisites. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are used to suggest why a result is true.

Nuclear Science Abstracts

Encyclopedia of Information Systems and Services

United States, International and Index Volume

Gale Cengage

Computing Science, Communication and Security

First International Conference, COMS2 2020, Gujarat, India, March 26–27, 2020, Revised Selected Papers

Springer Nature This book constitutes revised selected papers of the First International Conference on Computing Science, Communication and Security, COMS2 2020, held in March 2020. Due to the COVID-19 pandemic the conference was held virtually. The 26 full papers and 1 short paper were thoroughly reviewed and selected from 79 submissions. Papers are organised according to the topical sections on artificial intelligence and machine learning; network, communication and security; computing science.

Advances in Service Science

Proceedings of the 2018 INFORMS International Conference on Service Science

Springer This volume offers the state-of-the-art research and developments in service science and related research, education and practice areas. It showcases emerging technology and applications in fields including healthcare, information technology, transportation, sports, logistics, and public services. Regardless of size and service, a service organization is a service system. Because of the socio-technical nature of a service system, a systems approach must be adopted to design, develop, and deliver services, aimed at meeting end users' both utilitarian and socio-psychological needs. Effective understanding of service and service systems often requires combining multiple methods to consider how interactions of people, technology, organizations, and information create value under various conditions. The papers in this volume highlight ways to approach such technical challenges in service science and are based on submissions from the 2018 INFORMS International Conference on Service Science.

Foundations of Computer Science

C Edition

W. H. Freeman

Canadiana

Encyclopedia of Library and Information Science

Volume 65 - Supplement 28: Behavioral Impacts of Consultative Systems: A Structural Model for User Reliance on System Advice to User Query Performance with Database Feedback

CRC Press "The Encyclopedia of Library and Information Science provides an outstanding resource in 33 published volumes with 2 helpful indexes. This thorough reference set--written by 1300 eminent, international experts--offers librarians, information/computer scientists, bibliographers, documentalists, systems analysts, and students, convenient access to the techniques and tools of both library and information science. Impeccably researched, cross referenced, alphabetized by subject, and generously illustrated, the Encyclopedia of Library and Information Science integrates the essential theoretical and practical information accumulating in this rapidly growing field. The self-contained Supplements (each Supplement contains A-Z coverage) highlight new trends, describe the latest advances, and profile key people making critical contributions to the field. Recent individual Supplements considered topics such as Archival Science to User Needs Concept-Based Indexing and Retrieval of Hypermedia Information to Using Self-Checkout Technology to Increase Productivity and Patron Service in the Library Artificial Intelligence and Machine Learning Approach to Fraud Investigation to Visual Search in Modern Human-Computer Interfaces Supplement Volumes 36-61 are available; additional supplements in preparation."

Digital Forensic Science

Issues, Methods, and Challenges

Morgan & Claypool Publishers Digital forensic science, or digital forensics, is the application of scientific tools and methods to identify, collect, and analyze digital (data) artifacts in support of legal proceedings. From a more technical perspective, it is the process of reconstructing the relevant sequence of events that have led to the currently observable state of a target IT system or (digital) artifacts. Over the last three decades, the importance of digital evidence has grown in lockstep with the fast societal adoption of information technology, which has resulted in the continuous accumulation of data at an exponential rate. Simultaneously, there has been a rapid growth in network connectivity and the complexity of IT systems, leading to more complex behavior that needs to be investigated. The goal of this book is to provide a systematic technical overview of digital forensic techniques, primarily from the point of view of computer science. This allows us to put the field in the broader perspective of a host of related areas and gain better insight into the computational challenges facing forensics, as well as draw inspiration for addressing them. This is needed as some of the challenges faced by digital forensics, such as cloud computing, require qualitatively different approaches; the sheer volume of data to be examined also requires new means of processing it.

Location Based Services and TeleCartography II

From Sensor Fusion to Context Models

Springer Science & Business Media 5th International Conference on Location Based Services and TeleCartography, 2008, Salzburg

Advanced Computing, Networking and Security

International Conference, ADCONS 2011, Surathkal, India, December 16-18, 2011, Revised Selected Papers

Springer Science & Business Media This book constitutes revised selected papers from the International Conference on Advanced Computing, Networking and Security, ADCONS 2011, held in Surathkal, India, in December 2011. The 73 papers included in this book were carefully reviewed and selected from 289 submissions. The papers are organized in topical sections on distributed computing, image processing, pattern recognition, applied algorithms, wireless networking, sensor networks, network infrastructure, cryptography, Web security, and application security.

Encyclopedia of Information Systems and Services

United States, International and Index Volume

Gale Cengage

Monthly Catalog of United States Government Publications

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Computer Science for Schools

Title List of Documents Made Publicly Available

Towards the Internet of Services: The THESEUS Research Program

Springer The Internet of Services and the Internet of Things are major building blocks of the Future Internet. The digital enterprise of the future is based not only on mobile, social, and cloud technologies, but also on semantic technologies and the future Internet of Everything. Semantic technologies now enable mass customization for the delivery of goods and services that meet individual customer needs and tastes with near mass production efficiency and reliability. This is creating a competitive advantage in the industrial economy, the service economy, and the emerging data economy, leading to smart products, smart services, and smart data, all adaptable to specific tasks, locations, situations, and contexts of smart spaces. Such technologies allow us to describe, revise, and adapt the characteristics, functions, processes, and usage patterns of customization targets on the basis of machine-understandable content representation that enables automated processing and information sharing between human and software agents. This book explains the principal achievements of the Theseus research program, one of the central programs in the German government's Digital 2015 initiative and its High-Tech Strategy 2020. The methods, toolsets, and standards for semantic technologies developed during this program form a solid basis for the fourth industrial revolution (Industrie 4.0), the hybrid service economy, and the transformation of big data into useful smart data for the emerging data economy. The contributing authors are leading scientists and engineers, representing world-class academic and industrial research teams, and the ideas, technologies, and representative use cases they describe in the book derive from results in multidisciplinary fields, such as the Internet of Services; the Semantic Web, and semantic technologies, knowledge management, and search; user interfaces, multimodal interaction, and visualization; machine learning and data mining; and business process support, manufacturing, automation, medical systems, and integrated service engineering. The book will be of value to both researchers and practitioners in these domains.

Applied Computer Science for GGOS Observatories

Communication, Coordination and Automation of Future Geodetic Infrastructures

Springer This book combines elementary theory from computer science with real-world challenges in global geodetic observation, based on examples from the Geodetic Observatory Wettzell, Germany. It starts with a step-by-step introduction to developing stable and safe scientific software to run successful software projects. The use of software toolboxes is another essential aspect that leads to the application of generative programming. An example is a generative network middleware that simplifies communication. One of the book's main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques. The complete software design of a satellite laser ranging system is taken as an example. Such automated systems are then combined for global interaction using secure communication tunnels for remote access. The network of radio telescopes is used as a reference. Combined observatories form coordinated multi-agent systems and offer solutions for operational aspects of the Global Geodetic Observing System (GGOS) with regard to "Industry 4.0".

Probability and Statistics with Reliability, Queuing, and Computer Science Applications

John Wiley & Sons An accessible introduction to probability, stochastic processes, and statistics for computer science and engineering applications Second edition now also available in Paperback. This updated and revised edition of the popular classic first edition relates fundamental concepts in probability and statistics to the computer sciences and engineering. The author uses Markov chains and other statistical tools to illustrate processes in reliability of computer systems and networks, fault tolerance, and performance. This edition features an entirely new section on stochastic Petri nets—as well as new sections on system availability modeling, wireless system modeling, numerical solution techniques for Markov chains, and software reliability modeling, among other subjects. Extensive revisions take new developments in solution techniques and applications into account and bring this work totally

up to date. It includes more than 200 worked examples and self-study exercises for each section. Probability and Statistics with Reliability, Queuing and Computer Science Applications, Second Edition offers a comprehensive introduction to probability, stochastic processes, and statistics for students of computer science, electrical and computer engineering, and applied mathematics. Its wealth of practical examples and up-to-date information makes it an excellent resource for practitioners as well. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Technology Integration Advancements in Distributed Systems and Computing

IGI Global The functionality of distributed computing systems has advanced greatly in recent months, and staying abreast of the latest research within the field is difficult. Technology Integration Advancements in Distributed Systems and Computing offers a vital compendium of research and developments within the field of distributed computing, giving case studies, frameworks, architectures, and best practices for academics and practitioners alike. With authors from around the world and the latest research from experts within the field, this resource acts as both a reference guide and research handbook.

Student Solutions Manual, Matrix Methods

Elsevier Student Solutions Manual, Matrix Methods

Proceedings of the Computer Science and Engineering Curricula Workshop, June 6-7, 1977, Williamsburg, Virginia

Monthly Catalogue, United States Public Documents

The Publishers' Trade List Annual

Optimization and Decision Science: Methodologies and Applications

ODS, Sorrento, Italy, September 4-7, 2017

Springer This proceedings volume highlights the state-of-the-art knowledge related to optimization, decisions science and problem solving methods, as well as their application in industrial and territorial systems. It includes contributions tackling these themes using models and methods based on continuous and discrete optimization, network optimization, simulation and system dynamics, heuristics, metaheuristics, artificial intelligence, analytics, and also multiple-criteria decision making. The number and the increasing size of the problems arising in real life require mathematical models and solution methods adequate to their complexity. There has also been increasing research interest in Big Data and related challenges. These challenges can be recognized in many fields and systems which have a significant impact on our way of living: design, management and control of industrial production of goods and services; transportation planning and traffic management in urban and regional areas; energy production and exploitation; natural resources and environment protection; homeland security and critical infrastructure protection; development of advanced information and communication technologies. The chapters in this book examine how to deal with new and emerging practical problems arising in these different fields through the presented methodologies and their applications. The chapter topics are applicable for researchers and practitioners working in these areas, but also for the operations research community. The contributions were presented during the international conference "Optimization and Decision Science" (ODS2017), held at Hilton Sorrento Palace Conference Center, Sorrento, Italy, September 4 - 7, 2017. ODS 2017, was organized by AIRO, Italian Operations Research Society, in cooperation with DIETI (Department of Electrical Engineering and Information Technology) of University "Federico II" of Naples.

Geothermal Energy Update