


Lecture Notes in Civil Engineering

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Geospatial and Soft Computing Techniques

Proceedings of 26th International
Conference on Hydraulics, Water
Resources and Coastal Engineering
(HYDRO 2021)

 Springer

Lecture Notes On Engineering Computing Nd

Michael Hoelscher



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High Performance Scientific and Engineering Computing Hans-Joachim Bungartz, Franz Durst, Christoph Zenger, 2012-12-06 Since the creation of the term Scientific Computing and of its German counterpart Wissenschaftliches Rechnen whoever has to be blamed for that scientists from outside the field have been confused about the somewhat strange distinction between scientific and non scientific computations And the insiders i.e. those who are at least convinced of always computing in a very scientific way are far from being happy with this summary of their daily work even if further characterizations like High Performance or Engineering try to make things clearer usually with very modest success however Moreover to increase the unfortunate confusion of terms who knows the differences between Computational Science and Engineering as indicated in the title of the series these proceedings were given the honour to be published in and Scientific and Engineering Computing as chosen for the title of our book Actually though the protagonists of scientific computing persist in its independence as a scientific discipline and rightly so of course the ideas behind the term diverge wildly Consequently the variety of answers one can get to the question What is scientific computing is really impressive and ranges from the serious nothing else but numerical analysis up to the more mocking consuming as much CPU time as possible on the most powerful number crunchers accessible

Handbook of Research on Politics in the Computer Age Solo, Ashu M. G., 2019-08-30 Technology and particularly the Internet have caused many changes in the realm of politics Aspects of engineering computer science mathematics or natural science can be applied to politics Politicians and candidates use their own websites and social network profiles to get their message out Revolutions in many countries in the Middle East and North Africa have started in large part due to social networking websites such as Facebook and Twitter Social networking has also played a role in protests and riots in numerous countries The mainstream media no longer has a monopoly on political commentary as anybody can set up a blog or post a video online Now political activists can network together online The Handbook of Research on Politics in the Computer Age is a pivotal reference source that serves to increase the understanding of methods for politics in the computer age the effectiveness of these methods and tools for analyzing these methods The book includes research chapters on different aspects of politics with information technology engineering computer science or math from 27 researchers at 20 universities and research organizations in Belgium Brazil Cape Verde Egypt Finland France Hungary Italy Mexico Nigeria Norway Portugal and the United States of America Highlighting topics such as online campaigning and fake news the prospective audience includes but is not limited to researchers political and public policy analysts political scientists engineers computer scientists political campaign managers and staff politicians and their staff political operatives professors students and individuals working in the fields of politics e politics e government new media and communication studies and Internet marketing

Distributed Computer Systems H. S. M. Zedan, 2014-05-12 Distributed Computer Systems Theory and Practice is a collection of papers dealing with the

design and implementation of operating systems including distributed systems such as the amoeba system argus Andrew and grapevine One paper discusses the concepts and notations for concurrent programming particularly language notation used in computer programming synchronization methods and also compares three classes of languages Another paper explains load balancing or load redistribution to improve system performance namely static balancing and adaptive load balancing For program efficiency the user can choose from various debugging approaches to locate or fix errors without significantly disturbing the program behavior Examples of debuggers pertain to the ada language and the occam programming language Another paper describes the architecture of a real time distributed database system used for computer network management monitoring integration as well as administration and control of both local area or wide area communications networks The book can prove helpful to programmers computer engineers computer technicians and computer instructors dealing with many aspects of computers such as programming hardware interface networking engineering or design

Lectures on Concurrency and Petri Nets Jörg Desel, Wolfgang Reisig, Grzegorz Rozenberg, 2004-06-14 This tutorial volume originates from the 4th Advanced Course on Petri Nets ACPN 2003 held in Eichst tt Germany in September 2003 In addition to lectures given at ACPN 2003 additional chapters have been commissioned to give a well balanced presentation of the state of the art in the area This book will be useful as both a reference for those working in the area as well as a study book for the reader who is interested in an up to date overview of research and development in concurrent and distributed systems of course readers specifically interested in theoretical or applicational aspects of Petri nets will appreciate the book as well

Cloud Computing and Big Data C. Catlett, W. Gentzsch, L. Grandinetti, 2013-10-22 Cloud computing offers many advantages to researchers and engineers who need access to high performance computing facilities for solving particular compute intensive and or large scale problems but whose overall high performance computing HPC needs do not justify the acquisition and operation of dedicated HPC facilities There are however a number of fundamental problems which must be addressed such as the limitations imposed by accessibility security and communication speed before these advantages can be exploited to the full This book presents 14 contributions selected from the International Research Workshop on Advanced High Performance Computing Systems held in Cetraro Italy in June 2012 The papers are arranged in three chapters Chapter 1 includes five papers on cloud infrastructures while Chapter 2 discusses cloud applications The third chapter in the book deals with big data which is nothing new large scientific organizations have been collecting large amounts of data for decades but what is new is that the focus has now broadened to include sectors such as business analytics financial analyses Internet service providers oil and gas medicine automotive and a host of others This book will be of interest to all those whose work involves them with aspects of cloud computing and big data applications

Security Compliance in Model-driven Development of Software Systems in Presence of Long-Term Evolution and Variants Sven Matthias Peldszus, 2022-07-13 For ensuring a software system s security it is vital to keep up with changing security precautions attacks and mitigations Although model

based development enables addressing security already at design time design models are often inconsistent with the implementation or among themselves An additional burden are variants of software systems To ensure security in this context we present an approach based on continuous automated change propagation allowing security experts to specify security requirements on the most suitable system representation We automatically check all system representations against these requirements and provide security preserving refactorings for preserving security compliance For both we show the application to variant rich software systems To support legacy systems we allow to reverse engineer variability aware UML models and semi automatically map existing design models to the implementation Besides evaluations of the individual contributions we demonstrate the approach in two open source case studies the iTrust electronics health records system and the Eclipse Secure Storage

Optimization with PDE Constraints Ronald Hoppe, 2014-09-11 This book on PDE Constrained Optimization contains contributions on the mathematical analysis and numerical solution of constrained optimal control and optimization problems where a partial differential equation PDE or a system of PDEs appears as an essential part of the constraints The appropriate treatment of such problems requires a fundamental understanding of the subtle interplay between optimization in function spaces and numerical discretization techniques and relies on advanced methodologies from the theory of PDEs and numerical analysis as well as scientific computing The contributions reflect the work of the European Science Foundation Networking Programme Optimization with PDEs OPTPDE

Foundations of Software Science and Computation Structures Parosh Aziz Abdulla, Delia Kesner, 2025-04-30 This open access book constitutes the proceedings of the 28th International Conference on Foundations of Software Science and Computation Structures FOSSACS 2025 which took place in Hamilton Canada during May 2025 held as part of the International Joint Conferences on Theory and Practice of Software ETAPS 2025 The 19 papers included in these proceedings were carefully reviewed and selected from 58 submissions They focus on foundational research in software science on theories and methods to support the analysis integration synthesis transformation and verification of programs and software systems

Designing Reliable Distributed Systems Peter Csaba Ölveczky, 2018-02-12 This classroom tested textbook provides an accessible introduction to the design formal modeling and analysis of distributed computer systems The book uses Maude a rewriting logic based language and simulation and model checking tool which offers a simple and intuitive modeling formalism that is suitable for modeling distributed systems in an attractive object oriented and functional programming style Topics and features introduces classical algebraic specification and term rewriting theory including reasoning about termination confluence and equational properties covers object oriented modeling of distributed systems using rewriting logic as well as temporal logic to specify requirements that a system should satisfy provides a range of examples and case studies from different domains to help the reader to develop an intuitive understanding of distributed systems and their design challenges examples include classic distributed systems such as transport protocols cryptographic protocols and distributed transactions leader election and

mutual execution algorithms contains a wealth of exercises including larger exercises suitable for course projects and supplies executable code and supplementary material at an associated website This self contained textbook is designed to support undergraduate courses on formal methods and distributed systems and will prove invaluable to any student seeking a reader friendly introduction to formal specification logics and inference systems and automated model checking techniques

Mathematics - Key Technology for the Future Willi Jäger,Hans-Joachim Krebs,2003 This work covers the results of a variety of major projects in industrial mathematics following an initiative of the German Federal Ministry of Education and Research

Ubiquitous Mobile Information and Collaboration Systems Luciano Baresi,Schahram Dustdar,Harald Gall,Maristella Matera,2004-12-16 Over recent years most business processes have changed in various dimensions e g exibility interconnectivity coordination style autonomy due to market conditions organizational models and usage scenarios of information systems Frequently information is relocated within a geographically distributed system according to rules that are only seldom defined as a well coded business process This creates the need for a software infrastructure that enables ubiquitous mobile and collaboration systems UMICS The anywhere anytime any means paradigm is becoming the major challenge in conceiving designing and releasing next generation information systems New technologies like wi networks and 3rd generation mobile phones are offering the infrastructure to conceive of information systems as ubiquitous information systems that is systems that are accessible from anywhere at any time and with any device Ubiquity is not yet another buzzword pushed by emerging technologies but is mainly a means to support new business models and encourage new ways of working This new wave of UMICS will exploit the knowledge developed and deployed for conventional information systems but will also need new concepts models methodologies and supporting technologies to fully exploit the potentials of the enabling infrastructure and to be ready for the challenge Moreover people need to move across organizational boundaries and collaborate with others within an organization as well as between organizations The ability to query the company's distributed knowledge base and to cooperate with co workers is still a requirement but mobility brings new access scenarios and higher complexity

Progress in Intelligent Computing Techniques: Theory, Practice, and Applications Pankaj Kumar Sa,Manmath Narayan Sahoo,M. Murugappan,Yulei Wu,Banshidhar Majhi,2017-07-12 The book focuses on both theory and applications in the broad areas of communication technology computer science and information security This two volume book contains the Proceedings of 4th International Conference on Advanced Computing Networking and Informatics This book brings together academic scientists professors research scholars and students to share and disseminate information on knowledge and scientific research works related to computing networking and informatics to discuss the practical challenges encountered and the solutions adopted The book also promotes translation of basic research into applied investigation and convert applied investigation into practice

Modeling and Simulating Software Architectures Ralf H. Reussner,Steffen Becker,Jens Happe,Robert Heinrich,Anne Koziol,2016-10-21 A new quantitative architecture simulation approach to software design

that circumvents costly testing cycles by modeling quality of service in early design states Too often software designers lack an understanding of the effect of design decisions on such quality attributes as performance and reliability This necessitates costly trial and error testing cycles delaying or complicating rollout This book presents a new quantitative architecture simulation approach to software design which allows software engineers to model quality of service in early design stages It presents the first simulator for software architectures Palladio and shows students and professionals how to model reusable parametrized components and configured deployed systems in order to analyze service attributes The text details the key concepts of Palladio s domain specific modeling language for software architecture quality and presents the corresponding development stage It describes how quality information can be used to calibrate architecture models from which detailed simulation models are automatically derived for quality predictions Readers will learn how to approach systematically questions about scalability hardware resources and efficiency The text features a running example to illustrate tasks and methods as well as three case studies from industry Each chapter ends with exercises suggestions for further reading and takeaways that summarize the key points of the chapter The simulator can be downloaded from a companion website which offers additional material The book can be used in graduate courses on software architecture quality engineering or performance engineering It will also be an essential resource for software architects and software engineers and for practitioners who want to apply Palladio in industrial settings

Network Routing Sudip Misra,Sumit Goswami,2017-03-07

Network Routing Fundamentals Applications and Emerging Technologies serves as single point of reference for both advanced undergraduate and graduate students studying network routing covering both the fundamental and more moderately advanced concepts of routing in traditional data networks such as the Internet and emerging routing concepts currently being researched and developed such as cellular networks wireless ad hoc networks sensor networks and low power networks

High Performance Scientific And Engineering Computing Michael Breuer,Franz Durst,Christoph Zenger,2012-12-06

In Douglas Adams book Hitchhiker s Guide to the Galaxy hyper intelligent beings reached a point in their existence where they wanted to understand the purpose of their own existence and the universe They built a supercomputer called Deep Thought and upon completion they asked it for the answer to the ultimate question of life the universe and everything else The computer worked for several millennia on the answers to all these questions When the day arrived for hyper intelligent beings the to receive the answer they were stunned shocked and disappointed to hear that the answer was simply 42 The still open questions to scientists and engineers are typically much simpler and consequently the answers are more reasonable Furthermore because human beings are too impatient and not ready to wait for such a long period high performance computing techniques have been developed leading to much faster answers Based on these developments in the last two decades scientific and engineering computing has evolved to a key technology which plays an important role in determining or at least shaping future research and development activities in many branches of industry Development work

has been going on all over the world resulting in numerical methods that are now available for simulations that were not foreseeable some years ago. However these days the availability of supercomputers with Teraflop performance supports extensive computations with technical relevance. A new age of engineering has started.

Complex System Modelling and Control Through Intelligent Soft Computations Quanmin Zhu, Ahmad Taher Azar, 2014-11-29 The book offers a snapshot of the theories and applications of soft computing in the area of complex systems modeling and control. It presents the most important findings discussed during the 5th International Conference on Modelling Identification and Control held in Cairo from August 31 September 2 2013. The book consists of twenty nine selected contributions which have been thoroughly reviewed and extended before their inclusion in the volume. The different chapters written by active researchers in the field report on both current theories and important applications of soft computing. Besides providing the readers with soft computing fundamentals and soft computing based inductive methodologies algorithms the book also discusses key industrial soft computing applications as well as multidisciplinary solutions developed for a variety of purposes like windup control waste management security issues biomedical applications and many others. It is a perfect reference guide for graduate students researchers and practitioners in the area of soft computing systems modeling and control.

Computational Science and Computational Intelligence Hamid R. Arabnia, Leonidas Deligiannidis, Farzan Shenavarmasouleh, Soheyla Amirian, Farid Ghareh Mohammadi, 2025-08-09 The CCIS book constitutes selected papers accepted in the Research Track on Education of the 11th International Conference on Computational Science and Computational Intelligence CSCI 2024 which took place in Las Vegas NV USA during December 11 13 2024. The 26 full papers included in this book were carefully reviewed and selected from a total of 155 submissions. They were organized in topical sections on subject specific education and curriculum design education and artificial intelligence teaching and learning strategies and related research studies.

Brain-Computer Interfaces Handbook Chang S. Nam, Anton Nijholt, Fabien Lotte, 2018-01-09 Brain Computer Interfaces Handbook Technological and Theoretical Advances provides a tutorial and an overview of the rich and multifaceted world of Brain Computer Interfaces BCIs. The authors supply readers with a contemporary presentation of fundamentals theories and diverse applications of BCI creating a valuable resource for anyone involved with the improvement of people's lives by replacing restoring improving supplementing or enhancing natural output from the central nervous system. It is a useful guide for readers interested in understanding how neural bases for cognitive and sensory functions such as seeing hearing and remembering relate to real world technologies. More precisely this handbook details clinical therapeutic and human computer interfaces applications of BCI and various aspects of human cognition and behavior such as perception affect and action. It overviews the different methods and techniques used in acquiring and pre processing brain signals extracting features and classifying users mental states and intentions. Various theories models and empirical findings regarding the ways in which the human brain interfaces with external systems and environments using BCI are also

explored The handbook concludes by engaging ethical considerations open questions and challenges that continue to face brain computer interface research Features an in depth look at the different methods and techniques used in acquiring and pre processing brain signals extracting features and classifying the user s intention Covers various theories models and empirical findings regarding ways in which the human brain can interface with the systems or external environments Presents applications of BCI technology to understand various aspects of human cognition and behavior such as perception affect action and more Includes clinical trials and individual case studies of the experimental therapeutic applications of BCI Provides human factors and human computer interface concerns in the design development and evaluation of BCIs Overall this handbook provides a synopsis of key technological and theoretical advances that are directly applicable to brain computer interfacing technologies and can be readily understood and applied by individuals with no formal training in BCI research and development Advances in Software Tools for Scientific Computing Hans P. Langtangen,Are M.

Bruaset,Ewald Quak,2012-12-06 To make full use of the ever increasing hardware capabilities of modern com puters it is necessary to speedily enhance the performance and reliability of the software as well and often without having a suitable mathematical theory readily available In the handling of more and more complex real life numerical problems in all sorts of applications a modern object oriented de sign and implementation of software tools has become a crucial component The considerable challenges posed by the demand for efficient object oriented software in all areas of scientific computing make it necessary to exchange ideas and experiences from as many different sources as possible Motivated by the success of the first meeting of this kind in Norway in 1996 we decided to organize another International Workshop on Modern Software Tools for Scientific Computing often referred to as SciTools 98 This workshop took place in Oslo Norway September 14 16 1998 The ob jective was again to provide an open forum for exchange and discussion of modern state of the art software techniques applied to challenging numerical problems The organization was undertaken jointly by the research institute SINTEF Applied Mathematics the Departments of Mathematics and Infor matics at the University of Oslo and the company Numerical Objects AS **Handbook of Discrete and Combinatorial Mathematics** Kenneth H. Rosen,2017-10-19

Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition

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