

74 44mb Thesis And Dissertation Manuals Howard University

This book constitutes the refereed proceedings of the 5th International Workshop on Web and Wireless Geographical Information Systems, W2GIS 2005, held in Lausanne, Switzerland in December 2005. The 25 revised full papers presented were carefully reviewed and selected from 70 submissions and cover a wide range of topics from web semantic and personalization, contextual representation and mapping to querying in mobile environment, to mobile networks and location-based services. The papers are organized in topical sections on mobile GIS and LBS, mapping and representation issues in Web and mobile GIS, mobile networks, querying in a mobile environment, context and personalization issues in Web and mobile GIS, Web GIS, and modeling for Web and mobile GIS.

Whose Book is it Anyway? is a provocative collection of essays that opens out the copyright debate to questions of open access, ethics, and creativity. It includes views – such as artist's perspectives, writer's perspectives, feminist, and international perspectives – that are too often marginalized or elided altogether. The diverse range of contributors take various approaches, from the scholarly and the essayistic to the graphic, to explore the future of publishing based on their experiences as publishers, artists, writers and academics. Considering issues such as intellectual property, copyright and comics, digital publishing and remixing, and what it means (not) to say one is an author, these vibrant essays urge us to view central aspects of writing and publishing in a new light. Whose Book is it Anyway? is a timely and varied collection of essays. It asks us to reconceive our understanding of publishing, copyright and open access, and it is essential reading for anyone invested in the future of publishing.

This comprehensive reference consists of 18 chapters from prominent researchers in the field. Each chapter is self-contained, and synthesizes one aspect of frequent pattern mining. An emphasis is placed on simplifying the content, so that students and practitioners can benefit from the book. Each chapter contains a survey describing key research on the topic, a case study and future directions. Key topics include: Pattern Growth Methods, Frequent Pattern Mining in Data Streams, Mining Graph Patterns, Big Data Frequent Pattern Mining, Algorithms for Data Clustering and more. Advanced-level students in computer science, researchers and practitioners from industry will find this book an invaluable reference.

No. 28 of this highly regarded series explores the fundamental and applied aspects of electrochemical science. This volume features two detailed studies on the rapidly developing field of electrochemical surface science.

This book constitutes the refereed proceedings of the 9th International Conference on Extending Database Technology, EDBT 2004, held in Heraklion, Crete, Greece, in March 2004. The 42 revised full papers presented together with 2 industrial application papers, 15 software demos, and 3 invited contributions were carefully reviewed and selected from 294 submissions. The papers are organized in topical sections on distributed, mobile and peer-to-peer database systems; data mining and knowledge discovery; trustworthy database systems; innovative query processing techniques for XML data; data and information on the web; query processing techniques for spatial databases; foundations of query processing; advanced query processing and optimization; query processing techniques for data and schemas; multimedia and quality-aware systems; indexing techniques; and imprecise sequence pattern queries.

This Intergovernmental Panel on Climate Change Special Report (IPCC-SREX) explores the challenge of understanding and managing the risks of climate extremes to advance climate change adaptation. Extreme weather and climate events, interacting with exposed and vulnerable human and natural systems, can lead to disasters. Changes in the frequency and severity of the physical events affect disaster risk, but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability. Some types of extreme weather and climate events have increased in frequency or magnitude, but populations and assets at risk have also increased, with consequences for disaster risk. Opportunities for managing risks of weather- and climate-related disasters exist or can be developed at any scale, local to international. Prepared following strict IPCC procedures, SREX is an invaluable assessment for anyone interested in climate extremes, environmental disasters and adaptation to climate change, including policymakers, the private sector and academic researchers.

Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation Special Report of the Intergovernmental Panel on Climate Change Cambridge University Press

Most genetics textbooks deal adequately with plant and animal genetics, but tend to neglect fungi. The authors have produced a book that will compensate for this imbalance. This book discusses the genetics of fungi in a way that is attractive and challenging, succinct yet comprehensive, sensitive to commercial and applied aspects, yet also theoretical, dealing with their genetics from molecules to individuals to population. This short text will be an ideal supplement to the established basic genetics texts or can be used as the sole text for an advanced course devoted to fungal genetics.

This book constitutes revised selected papers from 7 workshops that were held in conjunction with the ISC High Performance 2016 conference in Frankfurt, Germany, in June 2016. The 45 papers presented in this volume were carefully reviewed and selected for inclusion in this book. They stem from the following workshops: Workshop on Exascale Multi/Many Core Computing Systems, E-MuCoCoS; Second International Workshop on Communication Architectures at Extreme Scale, ExaComm; HPC I/O in the Data Center Workshop, HPC-IODC; International Workshop on OpenPOWER for HPC, IWOPH; Workshop on the Application Performance on Intel Xeon Phi – Being Prepared for KNL and

Beyond, IXPUG; Workshop on Performance and Scalability of Storage Systems, WOPSSS; and International Workshop on Performance Portable Programming Models for Accelerators, P3MA.

This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday. It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics. These papers highlight the impact and many achievements of Professor Sloan in his distinguished academic career. The book also presents state of the art knowledge in many computational fields such as quasi-Monte Carlo and Monte Carlo methods for multivariate integration, multi-level methods, finite element methods, uncertainty quantification, spherical designs and integration on the sphere, approximation and interpolation of multivariate functions, oscillatory integrals, and in general in information-based complexity and tractability, as well as in a range of other topics. The book also tells the life story of the renowned mathematician, family man, colleague and friend, who has been an inspiration to many of us. The reader may especially enjoy the story from the perspective of his family, his wife, his daughter and son, as well as grandchildren, who share their views of Ian. The clear message of the book is that Ian H. Sloan has been a role model in science and life.

To meet and adapt to the current and future trends and issues in technology and society, the science committee of The German Academic Society for Production Engineering (WGP) continues to define future topics for production technology. These themes represent not only the key focus for the scientific work of the WGP, but also the central themes of the first annual conference in June 2011, whose paper is publically available in this volume. Such themes, including electric mobility, medical technology, lightweight construction, and resource efficiency, as well as mass production ability have all been identified as future, large-scale, and long-term drivers of change. Future trends influence changes sustainably and fundamentally; they permeate society, technology, economics, and value systems and have an effect in virtually all areas of life. The WGP has, as part of its research, established for itself the goal of not only observing these emerging changes, but also of supervising and influencing their development in order to ensure steady progress, secure sustainability, and shape the future.

Quantum Information Processing is a young and rapidly growing field of research at the intersection of physics, mathematics, and computer science. Its ultimate goal is to harness quantum physics to conceive -- and ultimately build -- "quantum" computers that would dramatically overtake the capabilities of today's "classical" computers. One example of the power of a quantum computer is its ability to efficiently find the prime factors of a larger integer, thus shaking the supposedly secure foundations of standard encryption schemes. This comprehensive textbook on the rapidly advancing field introduces readers to the fundamental concepts of information theory and quantum entanglement, taking into account the current state of research and development. It thus covers all current concepts in quantum computing, both theoretical and experimental, before moving on to the latest implementations of quantum computing and communication protocols. With its series of exercises, this is ideal reading for students and lecturers in physics and informatics, as well as experimental and theoretical physicists, and physicists in industry. Dagmar Bruß graduated at RWTH University Aachen, Germany, and received her PhD in theoretical particle physics from the University of Heidelberg in 1994. As a research fellow at the University of Oxford she started to work in quantum information theory. Another fellowship at ISI Torino, Italy, followed. While being a research assistant at the University of Hannover she completed her habilitation. Since 2004 Professor Bruß has been holding a chair at the Institute of Theoretical Physics at the Heinrich-Heine-University Düsseldorf, Germany. Gerd Leuchs studied physics and mathematics at the University of Cologne, Germany, and received his Ph.D. in 1978. After two research visits at the University of Colorado in Boulder, USA, he headed the German gravitational wave detection group from 1985 to 1989. He became technical director at Nanomach AG in Switzerland. Since 1994 Professor Leuchs has been holding the chair for optics at the Friedrich-Alexander-University of Erlangen-Nuremberg, Germany. His fields of research span the range from modern aspects of classical optics to quantum optics and quantum information. Since 2003 he has been Director of the Max Planck Research Group for Optics, Information and Photonics at Erlangen.

This book primarily discusses issues related to the mining aspects of data streams and it is unique in its primary focus on the subject. This volume covers mining aspects of data streams comprehensively: each contributed chapter contains a survey on the topic, the key ideas in the field for that particular topic, and future research directions. The book is intended for a professional audience composed of researchers and practitioners in industry. This book is also appropriate for advanced-level students in computer science.

This book charts the convergence of science, culture, and politics across Portugal's empire, showing how a global geographical concept was born. In accessible, narrative prose, this book explores the unexpected forms that science took in the early modern world. It highlights little-known linkages between Asia and the Atlantic world.

Part I of this book is a practical introduction to working with the Isabelle proof assistant. It teaches you how to write functional programs and inductive definitions and how to prove properties about them in Isabelle's structured proof language. Part II is an introduction to the semantics of imperative languages with an emphasis on applications like compilers and program analysers. The distinguishing feature is that all the mathematics has been formalised in Isabelle and much of it is executable. Part I focusses on the details of proofs in Isabelle; Part II can be read even without familiarity with Isabelle's proof language, all proofs are described in detail but informally. The book teaches the reader the art of precise logical reasoning and the practical use of a proof assistant as a surgical tool for formal proofs about computer science artefacts. In this sense it represents a formal approach to computer science, not just semantics. The Isabelle formalisation, including the proofs and accompanying slides, are freely available online, and the book is suitable for graduate students, advanced undergraduate students, and researchers in theoretical computer science and logic.

This book constitutes the proceedings of the 32nd International Conference on Architecture of Computing Systems, ARCS 2019, held in Copenhagen, Denmark, in May 2019.

The 24 full papers presented in this volume were carefully reviewed and selected from 40 submissions. ARCS has always been a conference attracting leading-edge research outcomes in Computer Architecture and Operating Systems, including a wide spectrum of topics ranging from embedded and real-time systems all the way to large-scale and parallel systems. The selected papers are organized in the following topical sections: Dependable systems; real-time systems; special applications; architecture; memory hierarchy; FPGA; energy awareness; NoC/SoC. The chapter 'MEMPower: Data-Aware GPU Memory Power Model' is open access under a CC BY 4.0 license at link.springer.com.

This book provides an accelerated introduction to Maple for scientific programmers who already have experience in other computer languages (such as C, Pascal, or FORTRAN). It gives an overview of the most commonly used constructs and an elementary introduction to Maple programming. The new edition is substantially updated throughout. In particular, there are new programming features especially modules, nested lexical scopes, documentation features, and object-oriented support), a new solution of differential equations, and new plotting features. Review of Earlier Edition "It is especially nice for people like us, who have done some C and FORTRAN programming in our time, but would like to take better advantage of a tool like Maple. It discusses things of key importance to a scientific programmer and does not go on and on with things you'd never use anyway. The examples are terrific--beyond description. I have informed my colleagues here that this is a must-have..." (Brynjulf Owren, Department of Mathematical Sciences, The Norwegian Institute of Technology)

This volume contains 73 papers presented at ICMEET 2015: International Conference on Microelectronics, Electromagnetics and Telecommunications. The conference was held during 18 – 19 December, 2015 at Department of Electronics and Communication Engineering, GITAM Institute of Technology, GITAM University, Visakhapatnam, INDIA. This volume contains papers mainly focused on Antennas, Electromagnetics, Telecommunication Engineering and Low Power VLSI Design.

This book introduces the reader to how fundamental topics in particle physics can be studied with the largest neutrino telescopes currently in operation. Due to their large size, reaching cubic-kilometer volumes, and their wide energy response, these unusual detectors can provide insight on neutrino oscillations, dark matter searches or searches for exotic particles, new neutrino interactions or extra dimensions, among many other topics. Lacking a man-made neutrino 'beam', neutrino telescopes use the copious flux of neutrinos continuously produced by cosmic rays interacting in the Earth's atmosphere, as well as neutrinos from astrophysical origin. They have therefore access to neutrinos of higher energies and much longer baselines than those produced in present accelerators, being able to search for new physics at complementary scales than currently available in particle physics laboratories around the world. Written by carefully chosen experts in the field, the book introduces each topic in a pedagogical way apt not only to professionals, but also to students or the interested reader with a background in physics.

The goals of the second volume of the AHDR – Arctic Human Development Report: Regional Processes and Global Linkages – are to provide an update to the first AHDR (2004) in terms of an assessment of the state of Arctic human development; to highlight the major trends and changes unfolding related to the various issues and thematic areas of human development in the Arctic over the past decade; and, based on this assessment, to identify policy relevant conclusions and key gaps in knowledge, new and emerging Arctic success stories. The production of AHDR-II on the tenth anniversary of the first AHDR makes it possible to move beyond the baseline assessment to make valuable comparisons and contrasts across a decade of persistent and rapid change in the North. It addresses critical issues and emerging challenges in Arctic living conditions, quality of life in the North, global change impacts and adaptation, and Indigenous livelihoods. The assessment contributes to our understanding of the interplay and consequences of physical and social change processes affecting Arctic residents' quality of life, at both the regional and global scales. It shows that the Arctic is not a homogenous region. Impacts of globalization and environmental change differ within and between regions, between Indigenous and non-Indigenous northerners, between genders and along other axes.

This book explains how British army bands in the interwar years were a primary stakeholder in the music industry. Approximately 7,000 full-time bandsmen served in the British Army setting the standard for training and performance in the music industry.

"This book is the first peer-reviewed collection of papers focusing on the potential of myth storylines to yield data and lessons that are of value to the geological sciences. Building on the nascent discipline of geomythology, scientists and scholars from a variety of disciplines have contributed to this volume. The geological hazards (such as earthquakes, tsunamis, volcanic eruptions and cosmic impacts) that have given rise to myths are considered, as are the sacred and cultural values associated with rocks, fossils, geological formations and landscapes. There are also discussions about the historical and literary perspectives of geomythology. Regional coverage includes Europe and the Mediterranean, Afghanistan, Cameroon, India, Australia, Japan, Pacific islands, South America and North America. Myth and Geology challenges the widespread notion that myths are fictitious or otherwise lacking in value for the physical sciences." -- BOOK JACKET.

Kevin Harrington, one of the original "sharks" of the TV hit Shark Tank, and serial entrepreneur Mark Timm take you on a journey that radically redefines what it means to truly succeed--at work, at home, and in every area of life. On one of the best days of his life as an entrepreneur, Mark Timm found himself sitting in his car at the end of his driveway. In just a minute he would go into the house and greet his wife and children. But as he basked in the success he'd just had, he also had to face a surprising realization: he didn't really want to go home. Mark knew that once he stepped into the happy chaos of his family, the euphoria of the day would evaporate. His work life and his home life might as well have been two different worlds. And at that moment, he acknowledged--as he puts it--that "my businesses were getting my first and my best, while my family got my last and my least." Mentor to Millions charts Mark's journey from that pivotal moment to a whole new understanding of how work, life, and relationships can coexist and thrive together. His guide through this journey: his accomplished mentor, Kevin Harrington, one of the original "sharks" from Shark Tank, who shares amazing stories and imparts invaluable wisdom about how to win in business and in every area of life. This deeply personal, easy-to-follow book invites you to join Mark and Kevin on the journey. Every page pulls back the curtain on entrepreneurship at the highest level, revealing priceless business lessons--which lead to the biggest lesson of all: combining the best of business, family, and personal life. If you're succeeding in business, struggling, or just starting out, and want your life at home to be what you've always dreamed it can be, this is the lesson you need to learn: the most valuable business you'll ever own, work for, or be a part of isn't the business you go to every day, it's the one you go

home to.

Domain decomposition is an active, interdisciplinary research area that is devoted to the development, analysis and implementation of coupling and decoupling strategies in mathematics, computational science, engineering and industry. A series of international conferences starting in 1987 set the stage for the presentation of many meanwhile classical results on substructuring, block iterative methods, parallel and distributed high performance computing etc. This volume contains a selection from the papers presented at the 15th International Domain Decomposition Conference held in Berlin, Germany, July 17-25, 2003 by the world's leading experts in the field. Its special focus has been on numerical analysis, computational issues, complex heterogeneous problems, industrial problems, and software development.

This book constitutes the thoroughly refereed post-workshop proceedings of the Third International Workshop on Communication, Architecture and Applications for Network-Based Parallel Computing, CANPC '99, held in Orlando, Florida, in January 1999. The 15 revised full papers presented have been carefully reviewed and selected for inclusion in the book. They present the state of the art in network-based parallel computing employing clusters of workstations/PCs connected by off-the-shelf networks for cost-effective high-performance computing.

Everett L. Worthington Jr. offers a comprehensive manual for assisting couples over common rough spots and through serious problems in a manner that is compassionate, effective and brief. The rapid development of digital technologies has opened up new possibilities for how Physical Education is taught. This book offers a comprehensive, practice-oriented and critical exploration of the actual and potential applications of digital technologies in PE. It considers the opportunities that are offered by new technologies and how they may be best implemented to enhance the learning process. Including contributions from the US, UK, Europe, Canada and New Zealand, this international collection reflects on how digital innovations are shaping PE pedagogy in theory and practice across the globe. Its chapters identify core pedagogical principles – rather than simply discussing passing digital fads – and offer practical narratives, case studies and reflections on how PE practitioners can introduce technology into teaching and learning through the use of social media, video gaming, virtual reality simulation, iPads and Wiki platforms. Digital Technology in Physical Education: Global Perspectives is a valuable resource for students, researchers and practitioners of PE looking to integrate digital technology into their work in a way that does justice to the complexity of teaching and learning.

The deployment of a large number of soldiers, police officers and civilian personnel inevitably has various effects on the host society and economy, not all of which are in keeping with the peacekeeping mandate and intent or are easily discernible prior to the intervention. This book is one of the first attempts to improve our understanding of unintended consequences of peacekeeping operations, by bringing together field experiences and academic analysis. The aim of the book is not to discredit peace operations but rather to improve the way in which such operations are planned and managed.

Proceedings of a NATO ARW held in Saint Jacut de la Mer, Brittany, France, May 3-8, 1992

The Compressed Word Problem for Groups provides a detailed exposition of known results on the compressed word problem, emphasizing efficient algorithms for the compressed word problem in various groups. The author presents the necessary background along with the most recent results on the compressed word problem to create a cohesive self-contained book accessible to computer scientists as well as mathematicians. Readers will quickly reach the frontier of current research which makes the book especially appealing for students looking for a currently active research topic at the intersection of group theory and computer science. The word problem introduced in 1910 by Max Dehn is one of the most important decision problems in group theory. For many groups, highly efficient algorithms for the word problem exist. In recent years, a new technique based on data compression for providing more efficient algorithms for word problems, has been developed, by representing long words over group generators in a compressed form using a straight-line program. Algorithmic techniques used for manipulating compressed words has shown that the compressed word problem can be solved in polynomial time for a large class of groups such as free groups, graph groups and nilpotent groups. These results have important implications for algorithmic questions related to automorphism groups.

This book presents comprehensive coverage of current and emerging multiple access, random access, and waveform design techniques for 5G wireless networks and beyond. A definitive reference for researchers in these fields, the book describes recent research from academia, industry, and standardization bodies. The book is an all-encompassing treatment of these areas addressing orthogonal multiple access and waveform design, non-orthogonal multiple access (NOMA) via power, code, and other domains, and orthogonal, non-orthogonal, and grant-free random access. The book builds its foundations on state of the art research papers, measurements, and experimental results from a variety of sources.

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

Multicore Processors and Systems provides a comprehensive overview of emerging multicore processors and systems. It covers technology trends affecting multicores, multicore architecture innovations, multicore software innovations, and case studies of state-of-the-art commercial multicore systems. A cross-cutting theme of the book is the challenges associated with scaling up multicore systems to hundreds of cores. The book provides an overview of significant developments in the architectures for multicore processors and systems. It includes chapters on fundamental requirements for multicore

systems, including processing, memory systems, and interconnect. It also includes several case studies on commercial multicore systems that have recently been developed and deployed across multiple application domains. The architecture chapters focus on innovative multicore execution models as well as infrastructure for multicores, including memory systems and on-chip interconnections. The case studies examine multicore implementations across different application domains, including general purpose, server, media/broadband, network processing, and signal processing. Multicore Processors and Systems is the first book that focuses solely on multicore processors and systems, and in particular on the unique technology implications, architectures, and implementations. The book has contributing authors that are from both the academic and industrial communities.

Presents the state of the art in improving bond strength between different materials for many manufacturing processes. The text explores up-to-date, high-quality adhesion technologies for a wide variety of materials, explaining current capabilities of adhesion promotion for both students and seasoned researchers. It reviews the suitable chemistry or morphology for enhanced adhesion to metal, plastic and wood surfaces.

Designed for health care professionals in multiple disciplines and clinical settings, this comprehensive, evidence-based wound care text provides basic and advanced information on wound healing and therapies and emphasizes clinical decision-making. The text integrates the latest scientific findings with principles of good wound care and provides a complete set of current, evidence-based practices. This edition features a new chapter on wound pain management and a chapter showing how to use negative pressure therapy on many types of hard-to-heal wounds. Technological advances covered include ultrasound for wound debridement, laser treatments, and a single-patient-use disposable device for delivering pulsed radio frequency.

Phytochemicals from medicinal plants are receiving ever greater attention in the scientific literature, in medicine, and in the world economy in general. For example, the global value of plant-derived pharmaceuticals will reach \$500 billion in the year 2000 in the OECD countries. In the developing countries, over-the-counter remedies and "ethical phytomedicines," which are standardized toxicologically and clinically defined crude drugs, are seen as a promising low cost alternatives in primary health care. The field also has benefited greatly in recent years from the interaction of the study of traditional ethnobotanical knowledge and the application of modern phytochemical analysis and biological activity studies to medicinal plants. The papers on this topic assembled in the present volume were presented at the annual meeting of the Phytochemical Society of North America, held in Mexico City, August 15-19, 1994. This meeting location was chosen at the time of entry of Mexico into the North American Free Trade Agreement as another way to celebrate the closer ties between Mexico, the United States, and Canada. The meeting site was the historic Calinda Geneve Hotel in Mexico City, a most appropriate site to host a group of phytochemists, since it was the address of Russel Marker. Marker lived at the hotel, and his famous papers on steroidal saponins from *Dioscorea composita*, which launched the birth control pill, bear the address of the hotel.

The aim of this highly original book is to survey a number of chemical compounds that some chemists, theoretical and experimental, find fascinating. This is the first book to feature compounds/classes of compounds of theoretical interest that have been studied theoretically but have defied synthesis. It is hoped that this collection of idiosyncratic molecules will appeal to chemists who find the study of chemical oddities interesting and, on occasion, even rewarding.

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