

## International Congress On Mathematics Micom 2015

The two volume set LNCS 9758 and 9759, constitutes the refereed proceedings of the 15th International Conference on Computers Helping People with Special Needs, ICCHP 2015, held in Linz, Austria, in July 2016. The 115 revised full papers and 48 short papers presented were carefully reviewed and selected from 239 submissions. The papers included in the first volume are organized in the following topical sections: Art Karshmer lectures in access to mathematics, science and engineering; technology for inclusion and participation; mobile apps and platforms; accessibility of web and graphics; ambient assisted living (AAL) for aging and disability; the impact of PDF/UA on accessible PDF; standard tools and procedures in accessible e-book production; accessible e-learning – e-learning for accessibility/AT; inclusive settings, pedagogies and approaches in ICT-based learning for disabled and non-disabled people; digital games accessibility; user experience and emotions for accessibility (UEE4A). The LESS 2010 conference was the first scientific conference dedicated to advancing the “lean enterprise software and systems” body of knowledge. It fostered interactions by joining the lean product development community with the agile community coupled with innovative ideas nurtured by the beyond budgeting school of thinking. The conference was organized in collaboration with the Lean Software and Systems Consortium (LSSC). The conference is established as a conference series. The idea of the conference was to offer a unique platform for advancing the state of the art in research and practice by bringing the leading researchers and practitioners to the same table. Indeed, LESS 2010 attracted a unique mix of participants including academics, researchers, leading consultants and industry practitioners. The aim of the conference was to use this diverse community to advance research and practical knowledge concerning lean thinking within the field of software business and development. LESS 2010 had more than 60% of its speakers come from the industry and the remaining from academia. LESS is poised to grow as we advance into future iterations of the conference and become the conference for lean thinking in systems and software development. Its growth and credibility will be advanced by the communities and knowledge exchange platform it provides. LESS offers several avenues for knowledge exchange to create a highly collaborative environment. Each year, we aim to bring novelty to a program that fosters collaboration, letting new ideas thrive during and after the conference.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Today, parallel computing experts can solve problems previously deemed impossible and make the "merely difficult" problems economically feasible to solve. This book presents and synthesizes the recent experiences of reknown expert developers who design robust and complex parallel computing applications. They demonstrate how to adapt and implement today's most advanced, most effective parallel computing techniques. The book begins with a highly focused introductory course designed to provide a working knowledge of all the relevant architectures, programming models, and performance issues, as well as the basic approaches to assessment, optimization, scheduling, and debugging. Next comes a series of seventeen detailed case studies all dealing with production-quality industrial and scientific applications, all presented firsthand by the actual code developers. Each chapter follows the same comparison-inviting format, presenting lessons learned and algorithms developed in the course of meeting real, non-academic challenges. A final section highlights the case studies' most important insights and turns an eye to the future of the discipline. \* Provides in-depth case studies of seventeen parallel computing applications, some built from scratch, others developed through parallelizing existing applications. \* Explains elements critical to all parallel programming

environments, including: \*\* Terminology and architectures \*\* Programming models and methods \*\* Performance analysis and debugging tools \* Teaches primarily by example, showing how scientists in many fields have solved daunting problems using parallel computing. \* Covers a wide range of application areas biology, aerospace, semiconductor design, environmental modeling, data imaging and analysis, fluid dynamics, and more. \* Summarizes the state of the art while looking to the future of parallel computing. Presents technical animations and visualizations from many of the applications detailed in the case studies via a companion web site.

This edited book presents the recent developments in partial least squares-path modeling (PLS-PM) and provides a comprehensive overview of the current state of the most advanced research related to PLS-PM. The first section of this book emphasizes the basic concepts and extensions of the PLS-PM method. The second section discusses the methodological issues that are the focus of the recent development of the PLS-PM method. The third part discusses the real world application of the PLS-PM method in various disciplines. The contributions from expert authors in the field of PLS focus on topics such as the factor-based PLS-PM, the perfect match between a model and a mode, quantile composite-based path modeling (QC-PM), ordinal consistent partial least squares (OrdPLSc), non-symmetrical composite-based path modeling (NSCPM), modern view for mediation analysis in PLS-PM, a multi-method approach for identifying and treating unobserved heterogeneity, multigroup analysis (PLS-MGA), the assessment of the common method bias, non-metric PLS with categorical indicators, evaluation of the efficiency and accuracy of model misspecification and bootstrap parameter recovery in PLS-PM, CB-SEM, and the Bollen-Stine methods and importance-performance map analysis (IPMA) for nonlinear relationships. This book will be useful for researchers and practitioners interested in the latest advances in PLS-PM as well as master and Ph.D. students in a variety of disciplines using the PLS-PM method for their projects.

Generalized Mathieu Series Springer Nature  
Projectorial MACS '91, 13th World Congress on Computation and Applied Mathematics July 22-26, 1991, Trinity College, Dublin, Ireland :

Proceedings Research in Progress. Physics, Chemistry, Biological Sciences, Mathematics, Engineering Sciences, Metallurgy and Materials Science, Geosciences, Electronics, European Research Program Army R, D & A. Research in Progress Army Research and Development Industrial Strength Parallel Computing Morgan Kaufmann

This volume contains the proceedings from the workshops held in conjunction with the IEEE International Parallel and Distributed Processing Symposium, IPDPS 2000, on 1-5 May 2000 in Cancun, Mexico. The workshops provide a forum for bringing together researchers, practitioners, and designers from various backgrounds to discuss the state of the art in parallelism. They focus on different aspects of parallelism, from runtime systems to formal methods, from optics to irregular problems, from biology to networks of personal computers, from embedded systems to programming environments; the following workshops are represented in this volume: { Workshop on Personal Computer Based Networks of Workstations { Workshop on Advances in Parallel and Distributed Computational Models { Workshop on Par. and Dist. Comp. in Image, Video, and Multimedia { Workshop on High-Level Parallel Prog. Models and Supportive Env. { Workshop on High Performance Data Mining { Workshop on Solving Irregularly Structured Problems in Parallel { Workshop on Java for Parallel and Distributed Computing { Workshop on Biologically Inspired Solutions to Parallel Processing Problems { Workshop on Parallel and Distributed Real-Time Systems { Workshop on Embedded HPC Systems and Applications { Reconfigurable Architectures Workshop { Workshop on Formal Methods for Parallel Programming { Workshop on Optics and Computer

Science { Workshop on Run-Time Systems for Parallel Programming { Workshop on Fault-Tolerant Parallel and Distributed Systems All papers published in the workshops proceedings were selected by the program committee on the basis of referee reports. Each paper was reviewed by independent referees who judged the papers for originality, quality, and consistency with the themes of the workshops.

"[Seize the high ground is a] narrative history of the Army's aerospace experience from the 1950s to the present. The focus is on ballistic missile defense, from the early NIKE-HERCULES missile program through the SAFEGUARD acquisition site allowed by the 1972 ABM Treaty to the more advanced 'Star Wars' concepts studies toward the end of the century. [What is] covered is not only the technological response to the threat but the organizational and tactical development of the commands and units responsible for the defense mission"--CMH website.

This book presents original research articles addressing various aspects of economics, management and optimization. The topics discussed include economics, finance, marketing, resource allocation strategies, fuzzy logic, and network-based techniques for the analysis of economics, management and mathematical optimization. Combining the input of contributing professors and researchers from various Spanish, Italian and Latin American universities, the book will be of interest to students, researchers and practitioners, as well as members of the general public interested in the world of Economics and Management.

As the dividing line between traditional computing science and telecommunications quickly becomes blurred or disappears in today's rapidly changing environment, there is an increasing need for computer professionals to possess knowledge of telecommunications principles. Telecommunications and Networking presents a comprehensive overview of the interaction and relationship between telecommunications and data processing. The book's early chapters cover basic telecommunications vocabulary, common nomenclature, telecommunications fundamentals, as well as the important relationships among coding, error detection and correction, and noise. Later chapters discuss such topics as switching, timing, topological structures, routing algorithms, and teleprocessing. Other topics covered in detail include specific concerns inherent to computer communications, such as protocols, error detection and correction, network monitoring and security, and system validation. System designers and programmers can no longer be effective simply by understanding the tradeoffs between hardware and software. Telecommunications and Networking provides both computing professionals and students the fundamental computer communications concepts necessary to function in today's computer industry. When you think about how far and fast computer science has progressed in recent years, it's not hard to conclude that a seven-year old handbook may fall a little short of the kind of reference today's computer scientists, software engineers, and IT professionals need. With a broadened scope, more emphasis on applied computing, and more than 70 chap

Sections 1-2. Keyword Index.--Section 3. Personal author index.--Section 4. Corporate author index.-- Section 5. Contract/grant number index, NTIS

order/report number index 1-E.--Section 6. NTIS order/report number index F-Z. InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

One of the ways in which topology has influenced other branches of mathematics in the past few decades is by putting the study of continuity and convergence into a general setting. This new edition of Wilson Sutherland's classic text introduces metric and topological spaces by describing some of that influence. The aim is to move gradually from familiar real analysis to abstract topological spaces, using metric spaces as a bridge between the two. The language of metric and topological spaces is established with continuity as the motivating concept. Several concepts are introduced, first in metric spaces and then repeated for topological spaces, to help convey familiarity. The discussion develops to cover connectedness, compactness and completeness, a trio widely used in the rest of mathematics. Topology also has a more geometric aspect which is familiar in popular expositions of the subject as 'rubber-sheet geometry', with pictures of Möbius bands, doughnuts, Klein bottles and the like; this geometric aspect is illustrated by describing some standard surfaces, and it is shown how all this fits into the same story as the more analytic developments. The book is primarily aimed at second- or third-year mathematics students. There are numerous exercises, many of the more challenging ones accompanied by hints, as well as a companion website, with further explanations and examples as well as material supplementary to that in the book.

Fault detection, control, and forecasting have a vital role in renewable energy systems (Photovoltaics (PV) and wind turbines (WTs)) to improve their productivity, efficiency, and safety, and to avoid expensive maintenance. For instance, the main crucial and challenging issue in solar and wind energy production is the volatility of intermittent power generation due mainly to weather conditions. This fact usually limits the integration of PV systems and WTs into the power grid. Hence, accurately forecasting power generation in PV and WTs is of great importance for daily/hourly efficient management of power grid production, delivery, and storage, as well as for decision-making on the energy market. Also, accurate and prompt fault detection and diagnosis strategies are required to improve efficiencies of renewable energy systems, avoid the high cost of maintenance, and reduce risks of fire hazards, which could affect both personnel and installed equipment. This book intends to provide the reader with advanced statistical modeling, forecasting, and fault detection techniques in renewable energy systems.

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