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Brilliant Numeracy Tests Frontiers Media SA

This two volume set (CCIS 1257 and 1258) constitutes the refereed proceedings of the 6th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2020 held in Taiyuan, China, in September 2020. The 98 papers presented in these two volumes were carefully reviewed and selected from 392 submissions. The papers are organized in topical sections: database, machine learning, network, graphic images, system, natural language processing, security, algorithm, application, and education. The chapter "Highly Parallel SPARQL Engine for RDF" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Intelligent Computing Theories and Methodologies Springer Science & Business Media

The most powerful computers work by harnessing the combined computational power of millions of processors, and exploiting the full potential of such large-scale systems is something which becomes more difficult with each succeeding generation of parallel computers. Alternative architectures and computer paradigms are increasingly being investigated in an attempt to address these difficulties. Added to this, the pervasive presence of heterogeneous and parallel devices in consumer products such as mobile phones, tablets, personal computers and servers also demands efficient programming environments and applications aimed at small-scale parallel systems as opposed to large-scale supercomputers. This book presents a selection of papers presented at the conference: Parallel Computing (ParCo2017), held in Bologna, Italy, on 12 to 15 September 2017. The conference included contributions about alternative approaches to achieving High Performance Computing (HPC) to potentially surpass exa- and zetascale performances, as well as papers on the application of quantum computers and FPGA processors. These developments are aimed at making available systems better capable of solving intensive computational scientific/engineering problems such as climate models, security applications and classic NP-problems, some of which cannot currently be managed by even the most powerful supercomputers available. New areas of application, such as robotics, AI and learning systems, data science, the Internet of Things (IoT), and in-car systems and autonomous vehicles were also covered. As always, ParCo2017 attracted a large number of notable contributions covering present and future developments in parallel computing, and the book will be of interest to all those working in the field.

13th International Symposium on Process Systems Engineering – PSE 2018, July 1-5 2018 Elsevier

This volume includes the proceedings from Proceedings of the Ninth International Conference Fukuoka, Japan, June 4-7, 1996. This work represents a broad spectrum of new ideas in the field of applied artificial intelligence and expert systems, and serves to disseminate information regarding intelligent methodologies and their implementation in solving various problems in industry and engineering.

ECAI 2006 Springer

This book focuses on structure-preserving numerical methods for flexible multibody dynamics, including nonlinear elastodynamics and geometrically exact models for beams and shells. It also deals with the newly emerging class of variational integrators as well as Lie-group integrators. It discusses two alternative approaches to the discretization in space of nonlinear beams and shells. Firstly, geometrically exact formulations, which are typically used in the finite element community and, secondly, the absolute nodal coordinate formulation, which is popular in the multibody dynamics community. Concerning the discretization in time, the energy-momentum method and its energy-decaying variants are discussed. It also addresses a number of issues that have arisen in the wake of the structure-preserving discretization in space. Among them are the parameterization of finite rotations, the incorporation of algebraic constraints and the computer implementation of the various numerical methods. The practical application of structure-preserving methods is illustrated by a number of examples dealing with, among others, nonlinear beams and shells, large deformation problems, long-term simulations and coupled thermo-mechanical multibody systems. In addition it links novel time integration methods to frequently used methods in industrial multibody system simulation.

Recent Findings in Boolean Techniques IOS Press

This book constitutes the thoroughly refereed post-proceedings of the Third International Conference on Large-Scale Scientific Computing, LSSC 2001, held in Sozopol, Bulgaria, in June 2001. The 7 invited full papers and 45 selected revised papers were carefully reviewed for inclusion in the book. The papers are organized in topical sections on robust preconditioning algorithms, Monte-Carlo methods, advanced programming environments for scientific computing, large-scale computations in air pollution modeling, large-scale computations in mechanical engineering, and numerical methods for incompressible flow.

Numerical Algebra, Matrix Theory, Differential-Algebraic Equations and Control Theory Springer Nature

This book constitutes the refereed proceedings of the 10th Extended Semantic Web Conference, ESWC 2013, held in Montpellier, France, in May 2013. The 42 revised full papers presented together with three invited talks were carefully reviewed and selected from 162 submissions. They are organized in tracks on ontologies; linked open data; semantic data management; mobile Web, sensors and semantic streams; reasoning; natural language processing and information retrieval; machine learning; social Web and Web science; cognition and semantic Web; and in-use and industrial tracks. The book also includes 17 PhD papers presented at the PhD Symposium.

Educational Testing and Measurement CRC Press

Educational Testing & Measurement Revised and updated edition of the reader-friendly, classroom-relevant introduction to testing and assessment, designed for educators to meet today's challenges in measuring student progress Educational Testing and Measurement, Twelfth Edition, is a revised and updated practical resource that will enhance assessment literacy to help prepare current and prospective teachers to navigate today's changing world of educational testing and assessment. It describes the classroom impact of national and key state-level policy changes that drive the ongoing changes in the usage of both teacher-made and standardized tests and assessments. Expanding on previous editions, the book: Explains test and measurement content in a nonintimidating and unique manner Clarifies how formative assessment can help integrate instruction and assessment on a day-day basis in the classroom, and the roles of interim/benchmark and summative assessment Describes the practical, day-to-day issues related to the development, scoring and interpretation of formative assessment results Presents both sides of the various controversies around educational testing and assessment to inform readers sufficiently to form their own opinions Uses a friendly, conversational style to enhance the emphasis on the application of theory Provides sufficient theoretical background, without oversimplifying, for readers to understand the statistical and psychometric foundations of measurement New content in the twelfth edition: Includes the impact of the COVID-19 pandemic on learning and assessment Expands coverage of formative, interim/benchmark and summative assessment Introduces Multi-Tiered Systems of Support (MTSS) and explains how MTSS both integrates with and expands upon Response to Instruction/Intervention (RTI) Describes changes to assessment practice driven by the "Every Student Succeeds Act

(ESSA)" (replacing No Child Left Behind Act, or NCLB), and state academic standards Includes examples illustrating the development, usage and interpretation of assessment results in today's classrooms Includes an updated instructor's manual with an expanded item bank, and links to on-line resources to expand upon the text presentation in key areas (e.g., formative assessments standardized testing, measuring behavioral, social, and emotional development) Educational Testing and Measurement, Twelfth Edition presents a balanced perspective of educational testing and assessment, with a unique approach to descriptive statistics and psychometrics (validity, reliability, and fairness).

Advances in Swarm Intelligence Springer Science & Business Media

As the stakes get higher, The Princeton Review continues to prepare students for success. Students must now meet performance levels on all five of the Ohio Graduation Tests in order to receive their diplomas. Passing rates for field tests are currently 63 percent for mathematics and 75 percent for reading. Now more than ever before, students will benefit from these essential guides! Many students don't get the preparation they need to ace the mathematics and reading exams—and that's why the experts at The Princeton Review have thoroughly researched these tests to provide the most comprehensive instruction on the market. Each book contains two full-length practice tests that are just like the actual exams, so students can get all the preparation they need to ace the exams and earn higher grades in school.

Computational Methods for Approximation of Large-Scale Dynamical Systems The Princeton Review

Welcome to Bavaria - Germany - to the THIRD EUROPEAN CARS/TRUCKS SIMULATION SYMPOSIUM. That Schliersee traditional workshop-type meeting is a follow-up to the first and the second symposia which took place in May 1984 and May 1989 respectively. The objective of gathering together is to cover most of the aspects of Automotive Mathematical Modelling and Simulation in theory and practice to promote the exchange of knowledge and experience between different national and international research groups in that field, taking into consideration that every seventh German employee is related to the automotive industry. This effect is also in power at least with the traditional Detroit (U.S.A.) Automotive Industries and the growing up Japanese as well. Furthermore, there is to strengthen the international contact between developers and users of modelling and simulation techniques considering the "new world order" started in 1991 with no borders between West and East affected by the Golf-War and followed up by the "open" European Community borders of 1992. VI The traditional International Conference jointly promoted by ASIMUTH - Applied Simulation Technology and some other members of the Society of Computer Simulaton created an interest to publish new projects including their results. A large number of contributed papers has been strictly examined and selected by the editorial committee to guarantee a high international technical standard.

Advancing Big Data Benchmarks Springer Science & Business Media

In many fields of modern mathematics specialised scientific software becomes increasingly important. Hence, tremendous effort is taken by numerous groups all over the world to develop appropriate solutions. This book contains surveys and research papers on mathematical software and algorithms. The common thread is that the

field of mathematical applications lies on the border between algebra and geometry. Topics include polyhedral geometry, elimination theory, algebraic surfaces, Gröbner bases, triangulations of point sets and the mutual relationship. This diversity is accompanied by the abundance of available software systems which often handle only special mathematical aspects. Therefore the volume's other focus is on solutions towards the integration of mathematical software systems. This includes low-level and XML based high-level communication channels as well as general framework for modular systems.

Parallel Processing and Applied Mathematics The Princeton Review

This book constitutes the refereed proceedings of the 13th International Conference on Flexible Query Answering Systems, FQAS 2019, held in Amantea, Italy, in July 2019. The 27 full papers and 10 short papers presented were carefully reviewed and selected from 43 submissions. The papers present emerging research trends with a special focus on flexible querying and analytics for smart cities and smart societies in the age of big data. They are organized in the following topical sections: flexible database management and querying; ontologies and knowledge bases; social networks and social media; argumentation-based query answering; data mining and knowledge discovery; advanced flexible query answering methodologies and techniques; flexible query answering methods and techniques; flexible intelligent information-oriented and network-oriented approaches; big data veracity and soft computing; flexibility in tools; and systems and miscellanea.

Database and Expert Systems Applications Springer

The ability of parallel computing to process large data sets and handle time-consuming operations has resulted in unprecedented advances in biological and scientific computing, modeling, and simulations. Exploring these recent developments, the Handbook of Parallel Computing: Models, Algorithms, and Applications provides comprehensive coverage on a

Mathematics Framework for California Public Schools, Kindergarten Through Grade Twelve IOS Press

Containing over 300 entries in an A-Z format, the Encyclopedia of Parallel Computing provides easy, intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing. Topics for this comprehensive reference were selected, written, and peer-reviewed by an international pool of distinguished researchers in the field. The Encyclopedia is broad in scope, covering machine organization, programming languages, algorithms, and applications. Within each area, concepts, designs, and specific implementations are presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searches for immediate access to useful information. Key concepts presented in the Encyclopedia of Parallel Computing include; laws and metrics; specific numerical and non-numerical algorithms; asynchronous algorithms; libraries of subroutines; benchmark suites; applications; sequential consistency and cache coherency; machine classes such as clusters, shared-memory multiprocessors, special-purpose machines and dataflow machines; specific machines such as Cray supercomputers, IBM's cell processor and Intel's multicore machines; race detection and auto parallelization; parallel programming languages, synchronization primitives, collective operations, message passing libraries, checkpointing, and operating systems. Topics covered: Speedup,

Efficiency, Isoefficiency, Redundancy, Amdahls law, Computer Architecture Concepts, Parallel Machine Designs, Benchmarks, Parallel Programming concepts & design, Algorithms, Parallel applications. This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references and to additional significant research. Related Subjects: supercomputing, high-performance computing, distributed computing

Scientific and Technical Aerospace Reports CRC Press

This title provides much food for thought and pointers to meet future challenges in mathematics education not only within Singapore, but also in other countries. *Flexible Query Answering Systems* Pearson UK This book shows you – through examples and puzzles and intriguing questions – how to make your computer reason logically. To help you, the book includes a CD-ROM with OTTER, the world's most powerful general-purpose reasoning program. The automation of reasoning has advanced markedly in the past few decades, and this book discusses some of the remarkable successes that automated reasoning programs have had in tackling challenging problems in mathematics, logic, program verification, and circuit design. Because the intended audience includes students and teachers, the book provides many exercises (with hints and also answers), as well as tutorial chapters that gently introduce readers to the field of logic and to automated reasoning in general. For more advanced researchers, the book presents challenging questions, many of which are still unsolved.

ECAI 2006 Springer Nature

This book is Open Access under a CC BY licence. This book constitutes the proceedings of the 22nd International Conference on Fundamental Approaches to Software Engineering, FASE 2019, which took place in Prague, Czech Republic in April 2019, held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2019. The 24 papers presented in this volume were carefully reviewed and selected from 94 submissions. The papers are organized in topical sections named: software verification; model-driven development and model transformation; software evolution and requirements engineering; specification, design, and implementation of particular classes of systems; and software testing. *Mathematics Education* Springer

These days, computer-based simulation is considered the quintessential approach to exploring new ideas in the different disciplines of science, engineering and technology (SET). To perform simulations, a physical system needs to be modeled using mathematics; these models are often represented by linear time-invariant (LTI) continuous-time (CT) systems. Oftentimes these systems are subject to additional algebraic constraints, leading to first- or second-order differential-algebraic equations (DAEs), otherwise known as descriptor systems. Such large-scale systems generally lead to massive memory requirements and enormous computational complexity, thus restricting frequent simulations, which are required by many applications. To resolve these complexities, the higher-dimensional system may be approximated by a substantially lower-dimensional one through model order reduction (MOR) techniques. *Computational Methods for Approximation of Large-Scale Dynamical Systems* discusses computational techniques for the MOR of large-scale sparse LTI CT systems. Although the book puts emphasis on the MOR of descriptor systems, it begins by showing and comparing the various MOR techniques for standard systems. The book also discusses the low-rank alternating direction implicit (LR-ADI) iteration and the issues related to solving the Lyapunov equation of large-scale sparse LTI systems to compute the low-rank Gramian factors, which are important components for implementing the Gramian-based MOR. Although this book is primarily aimed at post-graduate students and researchers of the various SET disciplines, the basic contents of

this book can be supplemental to the advanced bachelor's-level students as well. It can also serve as an invaluable reference to researchers working in academics and industries alike. Features: Provides an up-to-date, step-by-step guide for its readers. Each chapter develops theories and provides necessary algorithms, worked examples, numerical experiments and related exercises. With the combination of this book and its supplementary materials, the reader gains a sound understanding of the topic. The MATLAB® codes for some selected algorithms are provided in the book. The solutions to the exercise problems, experiment data sets and a digital copy of the software are provided on the book's website; The numerical experiments use real-world data sets obtained from industries and research institutes.

Forthcoming Books Springer Nature

This book constitutes the refereed proceedings of the 13th International Workshop on Computer Algebra in Scientific Computing, CASC 2011, held in Kassel, Germany, in September 2011. The 26 full papers included in the book were carefully reviewed and selected from numerous submissions. The articles are organized in topical sections on the development of object oriented computer algebra software for the modeling of algebraic structures as typed objects; matrix algorithms; the investigation with the aid of computer algebra; the development of symbolic-numerical algorithms; and the application of symbolic computations in applied problems of physics, mechanics, social science, and engineering. *Intelligent Computer Mathematics* Springer Science & Business Media

This two-volume set LNCS 13344 and 13345 constitutes the proceedings of the 13th International Conference on Advances in Swarm Intelligence, ICSI 2022, which took place in Xi'an, China, in July 2022. The theme of this year's conference was "Serving Life with Swarm Intelligence". The 85 full papers presented were carefully reviewed and selected from 171 submissions. The papers of the second part cover topics such as: Swarm Robotics and Multi-agent System; Deep Neural Networks; Machine Learning; Data Mining; Other Optimization Applications; ICSI-OC'2022: Competition on Single Objective Bounded Optimization Problems; Swarm Intelligence and Nature-Inspired Computing; Swarm-based Computing Algorithms for Optimization; Particle Swarm Optimization; Ant Colony Optimization; Genetic Algorithm and Evolutionary Computation; Fireworks Algorithms; Brain Storm Optimization Algorithm; Swarm Intelligence Approach-based Applications; Multi-Objective Optimization.

Algebra, Geometry and Software Systems Springer

This book constitutes the thoroughly refereed joint proceedings of the Third and Fourth Workshop on Big Data Benchmarking. The third WBDB was held in Xi'an, China, in July 2013 and the Fourth WBDB was held in San José, CA, USA, in October, 2013. The 15 papers presented in this book were carefully reviewed and selected from 33 presentations. They focus on big data benchmarks; applications and scenarios; tools, systems and surveys.