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Monge Ampère Equation - Luis A. Caffarelli 1999

In recent years, the Monge Ampere Equation has received attention for its role in several new areas of applied mathematics: As a new method of discretization for evolution equations of classical mechanics, such as the Euler equation, flow in porous media, Hele-Shaw flow, etc., As a simple model for optimal transportation and a div-curl decomposition with affine invariance and As a model for front formation in meteorology and optimal antenna design. These applications were addressed and important theoretical advances presented at a NSF-CBMS conference held at Florida Atlantic University (Boca Raton). L. Caffarelli and other distinguished specialists contributed high-quality research results and up-to-date developments in the field. This is a comprehensive volume outlining current directions in nonlinear analysis and its applications.

Digital Signal Processing with Matlab Examples, Volume 1 - Jose Maria Giron-Sierra 2016-11-19

This is the first volume in a trilogy on modern Signal Processing. The three books provide a concise exposition of signal processing topics, and a guide to support individual practical exploration based on MATLAB programs. This book includes MATLAB codes to illustrate each of the main steps of the theory, offering a self-contained guide suitable for independent study. The code is embedded in the text, helping readers to put into practice the ideas and methods discussed. The book is divided into three parts, the first of which introduces readers to periodic and non-periodic signals. The second part is devoted to filtering, which is an important and commonly used application. The third part addresses more advanced topics, including the analysis of real-world non-stationary signals and data, e.g. structural fatigue, earthquakes, electroencephalograms, birdsong, etc. The book's last chapter focuses on modulation, an example of the intentional use of non-stationary signals.

Optical Engineering - 1997

Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science, engineering, and technology.

Advances in Bioengineering - 1997

Optics Letters - 1993

Physics Briefs - 1992

Proceedings of 4th Global Summit and Expo on Multimedia & Artificial Intelligence 2018 - ConferenceSeries

July 19-21, 2018 Rome, Italy Key Topics : Imaging and Image Processing, Multimedia Cloud and Big Data, Multimedia IoT, Multimedia Systems & Services, Computer Games Design & Development, Multimedia Applications, Computer Graphics & Animation, Computer Vision and Pattern Recognition, Virtual Reality & Augmented Reality, Artificial Intelligence & Machine Learning, Natural language processing & Tensorflow, Artificial Intelligence for Business, Neural Networks, Human Computer Interaction and Visualization, Artificial Intelligence & Multimedia Technologies in Healthcare,

Time-domain Synthesis of Linear Networks - Kendall Ling-chiao Su 1971

Design and Analysis of Algorithms - Guy Even 2012-11-27

This book constitutes the refereed proceedings of the First Mediterranean Conference on Algorithms, MedAlg 2012, held in Kibbutz Ein Gedi, Israel, in December 2012. The 18 papers presented were carefully reviewed and selected from 44 submissions. The conference papers focus on the design, engineering, theoretical and experimental performance analysis of algorithms for problems arising in different areas of computation. Topics covered include: communications networks, combinatorial optimization and approximation, parallel and distributed computing, computer systems and architecture, economics, game theory,

social networks and the World Wide Web.

Proceedings of the 1998 IEEE International Conference on Acoustics, Speech, and Signal Processing - 1998

Multiple Approaches to Intelligent Systems - Ibrahim F. Imam 2004-05-19

We never create anything, We discover and reproduce. The Twelfth International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems has a distinguished theme. It is concerned with bridging the gap between the academic and the industrial worlds of Artificial Intelligence (AI) and Expert Systems. The academic world is mainly concerned with discovering new algorithms, approaches, and methodologies; however, the industrial world is mainly driven by profits, and concerned with producing new products or solving customers' problems. Ten years ago, the artificial intelligence research gap between academia and industry was very broad. Recently, this gap has been narrowed by the emergence of new fields and new joint research strategies in academia. Among the new fields which contributed to the academic-industrial convergence are knowledge representation, machine learning, searching, reasoning, distributed AI, neural networks, data mining, intelligent agents, robotics, pattern recognition, vision, applications of expert systems, and others. It is worth noting that the end results of research in these fields are usually products rather than empirical analyses and theoretical proofs. Applications of such technologies have found great success in many domains including fraud detection, internet service, banking, credit risk and assessment, telecommunication, etc. Progress in these areas has encouraged the leading corporations to institute research funding programs for academic institutes. Others have their own research laboratories, some of which produce state of the art research.

Independent Component Analysis and Signal Separation - Mike E. Davies 2007-08-28

This book constitutes the refereed proceedings of the 7th International Conference on Independent Component Analysis and Blind Source Separation, ICA 2007, held in London, UK, in September 2007. It covers algorithms and architectures, applications, medical applications, speech and signal processing, theory, and visual and sensory processing.

IMACS '91, 13th World Congress on Computation and Applied Mathematics - Robert Vichnevetsky 1991

Proceedings -- Computer Arithmetic, Algebra, OOP.

Artificial Intelligence and Security - Xingming Sun 2022-07-04

This three-volume set LNCS 13338-13340 constitutes the thoroughly refereed proceedings of the 8th International Conference on Artificial Intelligence and Security, ICAIS 2022, which was held in Qinghai, China, in July 2022. The total of 166 papers included in the 3 volumes were carefully reviewed and selected from 1124 submissions. The papers present research, development, and applications in the fields of artificial intelligence and information security

ICASSP 85 - 1985

Solar Energy Update - 1986

Princeton Companion to Applied Mathematics - Nicholas J. Higham 2015-09-09

The must-have compendium on applied mathematics This is the most authoritative and accessible single-volume reference book on applied mathematics. Featuring numerous entries by leading experts and organized thematically, it introduces readers to applied mathematics and its uses; explains key concepts; describes important equations, laws, and functions; looks at exciting areas of research; covers modeling and simulation; explores areas of application; and more. Modeled on the popular Princeton Companion to Mathematics, this volume is an

indispensable resource for undergraduate and graduate students, researchers, and practitioners in other disciplines seeking a user-friendly reference book on applied mathematics. Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts, methods, equations, and applications Introduces the language of applied mathematics and the goals of applied mathematical research Gives a wide range of examples of mathematical modeling Covers continuum mechanics, dynamical systems, numerical analysis, discrete and combinatorial mathematics, mathematical physics, and much more Explores the connections between applied mathematics and other disciplines Includes suggestions for further reading, cross-references, and a comprehensive index

Geometric Analysis, Mathematical Relativity, and Nonlinear Partial Differential Equations - Mohammad Ghomi 2012-09-25

This volume presents the proceedings of the Southeast Geometry Seminar for the meetings that took place bi-annually between the fall of 2009 and the fall of 2011, at Emory University, Georgia Institute of Technology, University of Alabama Birmingham, and the University of Tennessee. Talks at the seminar are devoted to various aspects of geometric analysis and related fields, in particular, nonlinear partial differential equations, general relativity, and geometric topology. Articles in this volume cover the following topics: a new set of axioms for General Relativity, CR manifolds, the Mane Conjecture, minimal surfaces, maximal measures, pendant drops, the Funk-Radon-Helgason method, ADM-mass and capacity, and extrinsic curvature in metric spaces.

Advances in Differential Equations and Mathematical Physics - Conference International 1998

This volume consists of selected contributions from the "Georgia Institute of Technology-UAB International Conference on Differential Equations and Mathematical Physics". The book offers a combination of certain emerging topics and important research advances in this active area. The topics range widely and include magnetic Schrodinger operators, the Boltzmann equations, nonlinear variational problems, and noncommutative probability theory. Some articles were included for their aesthetic value and others to present an overview. All articles were reviewed for scientific content and readability. The text is suitable for graduate and advanced graduate courses and seminars on the topic.

Artificial Intelligence Hardware Design - Albert Chun-Chen Liu 2021-08-31

ARTIFICIAL INTELLIGENCE HARDWARE DESIGN Learn foundational and advanced topics in Neural Processing Unit design with real-world examples from leading voices in the field In *Artificial Intelligence Hardware Design: Challenges and Solutions*, distinguished researchers and authors Drs. Albert Chun Chen Liu and Oscar Ming Kin Law deliver a rigorous and practical treatment of the design applications of specific circuits and systems for accelerating neural network processing. Beginning with a discussion and explanation of neural networks and their developmental history, the book goes on to describe parallel architectures, streaming graphs for massive parallel computation, and convolution optimization. The authors offer readers an illustration of in-memory computation through Georgia Tech's Neurocube and Stanford's Tetris accelerator using the Hybrid Memory Cube, as well as near-memory architecture through the embedded eDRAM of the Institute of Computing Technology, the Chinese Academy of Science, and other institutions. Readers will also find a discussion of 3D neural processing techniques to support multiple layer neural networks, as well as information like: A thorough introduction to neural networks and neural network development history, as well as Convolutional Neural Network (CNN) models Explorations of various parallel architectures, including the Intel CPU, Nvidia GPU, Google TPU, and Microsoft NPU, emphasizing hardware and software integration for performance improvement Discussions of streaming graph for massive parallel computation with the Blaize GSP and Graphcore IPU An examination of how to optimize convolution with UCLA Deep Convolutional Neural Network accelerator filter decomposition Perfect for hardware and software engineers and firmware developers, *Artificial Intelligence Hardware Design* is an indispensable resource for anyone working with Neural Processing Units in either a hardware or software capacity.

Advances in Artificial Intelligence - IBERAMIA 2018 - Guillermo R. Simari 2018-11-08
This book constitutes the refereed proceedings of the 16th Ibero-American Conference on Artificial Intelligence, IBERAMIA 2018, held in Trujillo, Peru, in November 2018. The 41 papers presented were carefully

reviewed and selected from 92 submissions. The papers are organized in the following topical sections: Knowledge Engineering, Knowledge Representation and Reasoning under Uncertainty., Multiagent Systems., Game Theory and Economic Paradigms, Game Playing and Interactive Entertainment, Ambient Intelligence, Machine Learning Methods, Cognitive Modeling, General AI, Knowledge Engineering, Computational Sustainability and AI, Heuristic Search and Optimization and much more. *Proceedings of the ... American Control Conference* - 1984

Proceedings of the Technical Program - 1978

Conference Digest - 1983

Notices of the American Mathematical Society - American Mathematical Society 1992

Computers in Building - Godfried Augenbroe 2012-12-06

Since the establishment of the CAAD Futures Foundation in 1985, CAAD experts from all over the world meet every two years to present and document the state of the art of research in Computer Aided Architectural Design. Together, the series provides a good record of the evolving state of research in this area over the last fourteen years. The Proceedings this year is the eighth in the series. The conference held at Georgia Institute of Technology in Atlanta, Georgia, includes twenty-five papers presenting new and exciting results and capabilities in areas such as computer graphics, building modeling, digital sketching and drawing systems, Web-based collaboration and information exchange. An overall reading shows that computers in architecture is still a young field, with many exciting results emerging out of both greater understanding of the human processes and information processing needed to support design and also the continuously expanding capabilities of digital technology.

Proceedings of the ... Conference on Information Sciences and Systems - 1992

Conference Record - 1994

Scientific and Technical Aerospace Reports - 1994

Proceedings - 2000

Mathematics for Mechanical Engineers - Frank Kreith 2022-03-31

Mathematics for Mechanical Engineers gives mechanical engineers convenient access to the essential problem solving tools that they use each day. It covers applications employed in many different facets of mechanical engineering, from basic through advanced, to ensure that you will easily find answers you need in this handy guide. For the engineer venturing out of familiar territory, the chapters cover fundamentals like physical constants, derivatives, integrals, Fourier transforms, Bessel functions, and Legendre functions. For the experts, it includes thorough sections on the more advanced topics of partial differential equations, approximation methods, and numerical methods, often used in applications. The guide reviews statistics for analyzing engineering data and making inferences, so professionals can extract useful information even with the presence of randomness and uncertainty. The convenient *Mathematics for Mechanical Engineers* is an indispensable summary of mathematics processes needed by engineers.

Three Decades of Progress in Control Sciences - Xiaoming Hu 2010-10-29

In this edited collection we commemorate the 60th birthday of Prof. Christopher Byrnes and the retirement of Prof. Anders Lindquist from the Chair of Optimization and Systems Theory at KTH. These papers were presented in part at a 2009 workshop in KTH, Stockholm, honoring the lifetime contributions of Professors Byrnes and Lindquist in various fields of applied mathematics.

Emerging Technologies in Biomedical Engineering and Sustainable TeleMedicine - Jihad Alja'am 2021-09-18

This book presents the most recent research and applications in Biomedical Engineering, electronic health and TeleMedicine. Top-scholars and research leaders in the field contributed to the book. It covers a broad range of applications including smart platforms like DietHub which connects patients with doctors online. The book highlights the advantages of Telemedicine to improve the healthcare services and how it can contribute to the homogenization of medicine without any geographical barriers. Telemedicine transforms local hospitals, with limited services, into a node of an integrated network. In

this manner, these nodes start to play an important role in preventive medicine and in high-level management of chronic diseases. The authors also discuss the challenges related to “health informatics” and in “e-health management”. The topics of the book include: synchronous and asynchronous telemedicine with deep discussions on e-health applications, virtual medical assistance, real-time virtual visits, digital telepathology, home health monitoring, and medication adherence, wearable sensors, tele-monitoring hubs and sensors, Internet of Things, augmented and virtual reality as well as e-learning technologies. The scope of the book is quite unique particularly in terms of the application domains that it targets. It is a unique hub for the dissemination of state of the art research in the telemedicine field and healthcare ecosystems. The book is a reference for graduate students, doctors, and researchers to discover the most recent findings, and hence, it achieves breakthroughs and pushes the boundaries in the related fields.

Conference Record of the Twenty-eighth Asilomar Conference on Signals, Systems & Computers - Avtar Singh 1994

2004 IEEE International Symposium on Information Theory : Proceedings : Chicago Downtown Marriott, Chicago, Illinois, USA, June 27-July 2, 2004 - 2004

The CRC Handbook of Mechanical Engineering, Second Edition - 1998-03-24

During the past 20 years, the field of mechanical engineering has undergone enormous changes. These changes have been driven by many factors, including: the development of computer technology worldwide competition in industry improvements in the flow of information satellite communication real time monitoring increased energy efficiency robotics automatic control increased sensitivity to environmental impacts of

human activities advances in design and manufacturing methods These developments have put more stress on mechanical engineering education, making it increasingly difficult to cover all the topics that a professional engineer will need in his or her career. As a result of these developments, there has been a growing need for a handbook that can serve the professional community by providing relevant background and current information in the field of mechanical engineering. The CRC Handbook of Mechanical Engineering serves the needs of the professional engineer as a resource of information into the next century.

Advances in Imaging and Electron Physics - 1995-02-06

Advances in Imaging and Electron Physics

Euro-Par 2018: Parallel Processing - Marco Aldinucci 2018-08-20

This book constitutes the proceedings of the 24th International Conference on Parallel and Distributed Computing, Euro-Par 2018, held in Turin, Italy, in August 2018. The 57 full papers presented in this volume were carefully reviewed and selected from 194 submissions. They were organized in topical sections named: support tools and environments; performance and power modeling, prediction and evaluation; scheduling and load balancing; high performance architectures and compilers; parallel and distributed data management and analytics; cluster and cloud computing; distributed systems and algorithms; parallel and distributed programming, interfaces, and languages; multicore and manycore methods and tools; theory and algorithms for parallel computation and networking; parallel numerical methods and applications; and accelerator computing for advanced applications.

INFORMS Conference Program - Institute for Operations Research and the Management Sciences. National Meeting 2006

Proceedings of the 1981 Joint Automatic Control Conference, June 17-19, 1981, University of Virginia, Charlottesville, Virginia - 1981