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International Conference on Biomedical and Health Informatics - Yuan-Ting Zhang
2018-12-28

This volume presents the proceedings of the International Conference on Biomedical and Health Informatics (ICBHI). The conference was a new special topic conference and a common initiative by the International Federation of

Medical and Biological Engineering (IFMBE) and IEEE Engineering in Medicine and Biology Society (IEEE- EMBS). BHI2015 was held in Haikou, China, 8-10 October 2015. The main theme of the BHI2015 is “The Convergence: Integrating Information and Communication Technologies with Biomedicine for Global Health”. The ICBHI2015 proceedings examine

enabling technologies of sensors, devices and systems that optimize the acquisition, transmission, processing, storage, retrieval, use of biomedical and health information as well as to report novel clinical applications of health information systems and the deployment of m-Health, e-Health, u-Health, p-Health and Telemedicine.

Non-negative Matrix Factorization

Techniques - Ganesh R. Naik 2015-09-25

This book collects new results, concepts and further developments of NMF. The open problems discussed include, e.g. in bioinformatics: NMF and its extensions applied to gene expression, sequence analysis, the functional characterization of genes, clustering and text mining etc. The research results previously scattered in different scientific journals and conference proceedings are methodically collected and presented in a unified form. While readers can read the book chapters sequentially, each chapter is also self-

contained. This book can be a good reference work for researchers and engineers interested in NMF, and can also be used as a handbook for students and professionals seeking to gain a better understanding of the latest applications of NMF.

Numerical Initial Value Problems in Ordinary Differential Equations - Charles William Gear 1971

Introduction -- Higher order one-step methods -- Systems of equations and equations of order greater than one -- Convergence, error bounds, and error estimates for one-step methods -- The choice of step size and order -- Extrapolation methods -- Multivalued or multistep methods - introduction -- General multistep methods, order and stability -- Multivalued methods -- Existence, convergence, and error estimates for multivalued methods -- Special methods for special problems -- Choosing a method.

Numerical Solution of Initial-value Problems in Differential-algebraic Equations - K. E. Brenan

1996-01-01

Many physical problems are most naturally described by systems of differential and algebraic equations. This book describes some of the places where differential-algebraic equations (DAE's) occur. The basic mathematical theory for these equations is developed and numerical methods are presented and analyzed. Examples drawn from a variety of applications are used to motivate and illustrate the concepts and techniques. This classic edition, originally published in 1989, is the only general DAE book available. It not only develops guidelines for choosing different numerical methods, it is the first book to discuss DAE codes, including the popular DASSL code. An extensive discussion of backward differentiation formulas details why they have emerged as the most popular and best understood class of linear multistep methods for general DAE's. New to this edition is a chapter that brings the discussion of DAE software up to date. The objective of this monograph is to

advance and consolidate the existing research results for the numerical solution of DAE's. The authors present results on the analysis of numerical methods, and also show how these results are relevant for the solution of problems from applications. They develop guidelines for problem formulation and effective use of the available mathematical software and provide extensive references for further study.

Biomedical Signal Processing - Ganesh Naik
2019-11-12

This book reports on the latest advances in the study of biomedical signal processing, and discusses in detail a number of open problems concerning clinical, biomedical and neural signals. It methodically collects and presents in a unified form the research findings previously scattered throughout various scientific journals and conference proceedings. In addition, the chapters are self-contained and can be read independently. Accordingly, the book will be of interest to university researchers, R&D

engineers and graduate students who wish to learn the core principles of biomedical signal analysis, algorithms, and applications, while also offering a valuable reference work for biomedical engineers and clinicians who wish to learn more about the theory and recent applications of neural engineering and biomedical signal processing.

A Merlin for Me - John Loft 1999

High Angle-of-attack Aerodynamics - 1982

Tensors for Data Processing - Yipeng Liu
2021-10-21

Tensors for Data Processing: Theory, Methods and Applications presents both classical and state-of-the-art methods on tensor computation for data processing, covering computation theories, processing methods, computing and engineering applications, with an emphasis on techniques for data processing. This reference is ideal for students, researchers and industry

developers who want to understand and use tensor-based data processing theories and methods. As a higher-order generalization of a matrix, tensor-based processing can avoid multi-linear data structure loss that occurs in classical matrix-based data processing methods. This move from matrix to tensors is beneficial for many diverse application areas, including signal processing, computer science, acoustics, neuroscience, communication, medical engineering, seismology, psychometric, chemometrics, biometric, quantum physics and quantum chemistry. Provides a complete reference on classical and state-of-the-art tensor-based methods for data processing Includes a wide range of applications from different disciplines Gives guidance for their application

Utilizing Direct Numerical Simulations of Transition and Turbulence in Design Optimization - National Aeronautics and Space Adm Nasa 2019-01-22

Design optimization methods that use the Reynolds-averaged Navier-Stokes equations with the associated turbulence and transition models, or other model-based forms of the governing equations, may result in aerodynamic designs with actual performance levels that are noticeably different from the expected values because of the complexity of modeling turbulence/transition accurately in certain flows. Flow phenomena such as wake-blade interaction and trailing edge vortex shedding in turbines and compressors (examples of such flows) may require a computational approach that is free of transition/turbulence models, such as direct numerical simulations (DNS), for the underlying physics to be computed accurately. Here we explore the possibility of utilizing DNS data in designing a turbine blade section. The ultimate objective is to substantially reduce differences between predicted performance metrics and those obtained in reality. The redesign of a typical low-pressure turbine blade section with

the goal of reducing total pressure loss in the row is provided as an example. The basic ideas presented here are of course just as applicable elsewhere in aerodynamic shape optimization as long as the computational costs are not excessive. Rai, Man M. Ames Research Center NASA/TM-2015-218932, ARC-E-DAA-TN28338 [Machine Learning, Optimization, and Data Science](#) - Giuseppe Nicosia 2021-01-08 This two-volume set, LNCS 12565 and 12566, constitutes the refereed proceedings of the 6th International Conference on Machine Learning, Optimization, and Data Science, LOD 2020, held in Siena, Italy, in July 2020. The total of 116 full papers presented in this two-volume post-conference proceedings set was carefully reviewed and selected from 209 submissions. These research articles were written by leading scientists in the fields of machine learning, artificial intelligence, reinforcement learning, computational optimization, and data science presenting a substantial array of ideas,

technologies, algorithms, methods, and applications.

Ordinary Differential Equations for Engineers - Ali Ümit Keskin 2018-09-01

This monograph presents teaching material in the field of differential equations while addressing applications and topics in electrical and biomedical engineering primarily. The book contains problems with varying levels of difficulty, including Matlab simulations. The target audience comprises advanced undergraduate and graduate students as well as lecturers, but the book may also be beneficial for practicing engineers alike.

Artificial Intelligence and Machine Learning - Bart Bogaerts 2021-01-04

This book contains a selection of the best papers of the 31st Benelux Conference on Artificial Intelligence, BNAIC 2019, and 28th Belgian Dutch Machine Learning Conference, BENELEARN 2019, held in Brussels, Belgium in November 2019. The 11 papers presented in this

volume were carefully reviewed and selected from 50 regular submissions. They address various aspects of artificial intelligence such as natural language processing, agent technology, game theory, problem solving, machine learning, human-agent interaction, AI and education, and data analysis.

Analytical System Dynamics - Brian Fabien 2008-11-09

"Analytical System Dynamics: Modeling and Simulation" combines results from analytical mechanics and system dynamics to develop an approach to modeling constrained multidiscipline dynamic systems. This combination yields a modeling technique based on the energy method of Lagrange, which in turn, results in a set of differential-algebraic equations that are suitable for numerical integration. Using the modeling approach presented in this book enables one to model and simulate systems as diverse as a six-link, closed-loop mechanism or a transistor power amplifier.

Introduction to Aircraft Flight Mechanics -

Thomas R. Yechout 2003

Based on a 15-year successful approach to teaching aircraft flight mechanics at the US Air Force Academy, this text explains the concepts and derivations of equations for aircraft flight mechanics. It covers aircraft performance, static stability, aircraft dynamics stability and feedback control.

Low Reynolds Number Aerodynamics - Rudd Deakins 2015-02-20

This book elucidates information regarding the low Reynolds number aerodynamics. It discusses the recent advancements and trends in the low Re number aerodynamics, transition from laminar to turbulence, unsteady low Reynolds number flows, experimental studies, numerical transition modelling, control of low Re number flows, and MAV wing aerodynamics. It includes contributions by fluid mechanics and aerodynamics scientists and engineers proficient in their respective fields. The studies included in

the book demonstrate significant new methods for the realization of the functions of MAV and wind turbine blades.

Machine Learning, Optimization, and Data Science - Giuseppe Nicosia 2020-01-03

This book constitutes the post-conference proceedings of the 5th International Conference on Machine Learning, Optimization, and Data Science, LOD 2019, held in Siena, Italy, in September 2019. The 54 full papers presented were carefully reviewed and selected from 158 submissions. The papers cover topics in the field of machine learning, artificial intelligence, reinforcement learning, computational optimization and data science presenting a substantial array of ideas, technologies, algorithms, methods and applications.

Information and Communication Technologies for Ageing Well and e-Health - Martina Ziefle 2021-02-25

This book constitutes the revised, selected and extended papers of the 6th International

Conference on Communication Technologies for Ageing Well and e-Health, ICT4AWE 2020, held in Prague, Czech Republic, in May 2020. Due to the COVID-19 pandemic the conference was held online. The 7 full papers presented were carefully reviewed and selected from 50 submissions. The papers present most recent research on best practices, innovation and technical improvements in the fields of age and health care, education, psychology, social coordination and ambient assisted living.

Metal Electrodeposition - Magdalena Nuñez 2005

Electrochemistry is the branch of chemistry that deals with the chemical action of electricity and the production of electricity by chemical reactions. In a world short of energy sources yet long on energy use, electrochemistry is a critical component of the mix necessary to keep the world economies growing. Electrochemistry is involved with such important applications as batteries, fuel cells, corrosion studies, hydrogen

energy conversion, and bioelectricity. Research on electrolytes, cells, and electrodes is within the scope of this old but extremely dynamic field. This book details advances in metal electrodeposition.

A Practical Guide to Pseudospectral Methods - Bengt Fornberg 1998-10-28

This book explains how, when and why the pseudospectral approach works.

The Waste Isolation Pilot Plant - National Research Council 1996-11-13

This volume discusses the readiness of the U.S. Department of Energy's (DOE) Waste Isolation Pilot Plant (WIPP) facility near Carlsbad, New Mexico, to serve as a geological repository for transuranic radioactive waste. WIPP is located in a Permian-age bedded salt deposit 658 meters below the surface. The committee has long reviewed DOE's readiness efforts, now aimed at demonstrating compliance with U.S. Environmental Protection Agency regulations. Site characterization studies and performance

assessment modeling are among the topics considered in this volume.

The Conjuror's Almanaq - Roy Leban
2019-01-21

The Conjuror's Almanaq is the ultimate guide to the conjuring arts. Or is it? Start reading and you'll be trapped inside! This unique puzzle book is an escape room in a book, only there is no room. You're trapped in the book itself by an evil spell cast by The Great Qdini. Find the hidden puzzles and learn Qdini's true name to make your way out

Modeling, Simulation, and Optimization -
Pandian Vasant 2017-12-07

This book features selected contributions in the areas of modeling, simulation, and optimization. The contributors discuss requirements in problem solving for modeling, simulation, and optimization. Modeling, simulation, and optimization have increased in demand in exponential ways and how potential solutions might be reached. They describe how new

technologies in computing and engineering have reduced the dimension of data coverage worldwide, and how recent inventions in information and communication technology (ICT) have inched towards reducing the gaps and coverage of domains globally. The chapters cover how the digging of information in a large data and soft-computing techniques have contributed to a strength in prediction and analysis, for decision making in computer science, technology, management, social computing, green computing, and telecom. The book provides an insightful reference to the researchers in the fields of engineering and computer science. Researchers, academics, and professionals will benefit from this volume. Features selected expanded papers in modeling, simulation, and optimization from COMPSE 2016; Includes research into soft computing and its application in engineering and technology; Presents contributions from global experts in academia and industry in modeling, simulation,

and optimization.

Adaptive and Intelligent Systems - Abdelhamid Bouchachia 2011-08-26

This book constitutes the proceedings of the International Conference on Adaptive and Intelligent Systems, ICAIS 2011, held in Klagenfurt, Austria, in September 2011. The 36 full papers included in these proceedings together with the abstracts of 4 invited talks, were carefully reviewed and selected from 72 submissions. The contributions are organized under the following topical sections: incremental learning; adaptive system architecture; intelligent system engineering; data mining and pattern recognition; intelligent agents; and computational intelligence.

Structure + Design - Panache Partners 2017-01-09

This collection presents the creations of 50 acclaimed American architects, interior designers, and builders. The book features a wide variety of private residences including

cutting-edge condos with 360 city views of Baltimore, waterside cabins along the East Coast, urban retreats perched high above Denver, classic Mission-style homes in California, and more. Large color photographs and descriptive editorial invite readers to tour these dream homes inside and out and learn how each home became a reality. Some of the designers included are Birdseye Design, Christopher Rose Architects, Hyatt Design, JLF Design Build, Optima, Santa Barbara Architecture, and Woodley Architectural Group. Semiannual Progress Report for the Period ... - C.J. Rodden 1962-07

Wearable/Personal Monitoring Devices Present to Future - Gaetano D. Gargiulo 2021-10-26
This book discusses recent advances in wearable technologies and personal monitoring devices, covering topics such as skin contact-based wearables (electrodes), non-contact wearables, the Internet of things (IoT), and signal

processing for wearable devices. Although it chiefly focuses on wearable devices and provides comprehensive descriptions of all the core principles of personal monitoring devices, the book also features a section on devices that are embedded in smart appliances/furniture, e.g. chairs, which, despite their limitations, have taken the concept of unobtrusiveness to the next level. Wearable and personal devices are the key to precision medicine, and the medical community is finally exploring the opportunities offered by long-term monitoring of physiological parameters that are collected during day-to-day life without the bias imposed by the clinical environment. Such data offers a prime view of individuals' physical condition, as well as the efficacy of therapy and occurrence of events. Offering an in-depth analysis of the latest advances in smart and pervasive wearable devices, particularly those that are unobtrusive and invisible, and addressing topics not covered elsewhere, the book will appeal to medical

practitioners and engineers alike.

Splitting Algorithms, Modern Operator Theory, and Applications - Heinz H. Bauschke
2019-11-06

This book brings together research articles and state-of-the-art surveys in broad areas of optimization and numerical analysis with particular emphasis on algorithms. The discussion also focuses on advances in monotone operator theory and other topics from variational analysis and nonsmooth optimization, especially as they pertain to algorithms and concrete, implementable methods. The theory of monotone operators is a central framework for understanding and analyzing splitting algorithms. Topics discussed in the volume were presented at the interdisciplinary workshop titled Splitting Algorithms, Modern Operator Theory, and Applications held in Oaxaca, Mexico in September, 2017. Dedicated to Jonathan M. Borwein, one of the most versatile mathematicians in contemporary history, this

compilation brings theory together with applications in novel and insightful ways.

Experimental Aerodynamics - Stefano Discetti
2017-03-16

Experimental Aerodynamics provides an up to date study of this key area of aeronautical engineering. The field has undergone significant evolution with the development of 3D techniques, data processing methods, and the conjugation of simultaneous measurements of

multiple quantities. Written for undergraduate and graduate students in Aerospace Engineering, the text features chapters by leading experts, with a consistent structure, level, and pedagogical approach. Fundamentals of measurements and recent research developments are introduced, supported by numerous examples, illustrations, and problems. The text will also be of interest to those studying mechanical systems, such as wind turbines.