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Key-words-in-context Title Index - 1963

Parallel Processing and Applied Mathematics, Part II - Roman Wyrzykowski 2010-07-12

The LNCS series reports State-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R&D community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS, including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. More recently, several color-cover sublines have been added featuring, beyond a collection of papers, various added-value components In parallel to the printed book, each new volume is published electronically in LNCS Online

Computational Optimal Control - Roland Bulirsch 2012-12-06

Resources should be used sparingly both from a point of view of economy and eco logy. Thus in controlling industrial, economical and social processes, optimization is the tool of choice. In this area of applied numerical analysis, the INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL (IFAC) acts as a link between research groups in universities, national research laboratories and industry. For this pur pose, the technical committee Mathematics of Control of IFAC organizes biennial conferences with the objective of bringing together experts to exchange ideas, ex periences and future developments in control applications of optimization. There should be a genuine feedback loop between mathematicians, computer scientists, engineers and software developers. This loop should include the design, application and implementation of algorithms. The contributions of industrial practitioners are especially important. These proceedings contain selected papers from a workshop on CONTROL Ap PPLICATIONS OF OPTIMIZATION, which took place at the Fachhochschule Miinchen in September 1992. The workshop was the ninth in a series of very successful bien nial meetings, starting with the Joint Automatic Control Conference in Denver in 1978 and followed by conferences in London, Oberpfaffenhofen, San Francisco, Ca pri, Tbilisi and Paris. The workshop was attended by ninety researchers from four continents. This volume represents the state of the art in the field, with emphasis on progress made since the publication of the proceedings of the Capri meeting, edited by G. di Pillo under the title 'Control Applications of Optimization and Nonlinear Programming'.
Canadian Aeronautics and Space Journal - 1991

MEMS - Mohamed Gad-el-Hak 2005-11-29

As our knowledge of microelectromechanical systems (MEMS) continues to grow, so does The MEMS Handbook. The field has changed so much that this Second Edition is now available in three volumes. Individually, each volume provides focused, authoritative treatment of specific areas of interest. Together, they comprise the most comprehensive collection of MEMS knowledge available, packaged in an attractive slipcase and offered at a substantial savings. This best-selling handbook is now more convenient than ever, and its coverage is unparalleled. The third volume, MEMS: Applications, offers a broad overview of current, emerging, and possible future MEMS applications. It surveys inertial sensors, micromachined pressure sensors, surface micromachined devices, microscale vacuum pumps, reactive control for skin-friction reduction, and microchannel heat sinks, among many others. Two new chapters discuss microactuators and nonlinear electrokinetic devices. This book is vital to understanding the current and possible capabilities of MEMS technologies. MEMS: Applications comprises contributions from the foremost experts in their respective specialties from around the world. Acclaimed author and expert Mohamed Gad-el-Hak has again raised the bar to set a new standard for excellence and authority in the fledgling

fields of MEMS and nanotechnology.

A History of Mathematics in the United States and Canada - David E. Zitarelli 2022-07-28

This is the first truly comprehensive and thorough history of the development of a mathematical community in the United States and Canada. This second volume starts at the turn of the twentieth century with a mathematical community that is firmly established and traces its growth over the next forty years, at the end of which the American mathematical community is pre-eminent in the world. In the preface to the first volume of this work Zitarelli reveals his animating philosophy, [I find that the human factor lends life and vitality to any subject.] History of mathematics, in the Zitarelli conception, is not just a collection of abstract ideas and their development. It is a community of people and practices joining together to understand, perpetuate, and advance those ideas and each other. Telling the story of mathematics means telling the stories of these people: their accomplishments and triumphs; the institutions and structures they built; their interpersonal and scientific interactions; and their failures and shortcomings. One of the most hopeful developments of the period 1900[1941 in American mathematics was the opening of the community to previously excluded populations. Increasing numbers of women were welcomed into mathematics, many of whom[including Anna Pell Wheeler, Olive Hazlett, and Mayme Logsdon]are profiled in these pages. Black mathematicians were often systemically excluded during this period, but, in spite of the obstacles, Elbert Frank Cox, Dudley Woodard, David Blackwell, and others built careers of significant accomplishment that are described here. The effect on the substantial community of European immigrants is detailed through the stories of dozens of individuals. In clear and compelling prose Zitarelli, Dumbaugh, and Kennedy spin a tale accessible to experts, general readers, and anyone interested in the history of science in North America.

Index of Conference Proceedings - British Library. Document Supply Centre 1999

eScience on Distributed Computing Infrastructure - Marian Bubak 2014-08-25

To help researchers from different areas of science understand and unlock the potential of the Polish Grid Infrastructure and to define their requirements and expectations, the following 13 pilot communities have been organized and involved in the PLGrid Plus project: Acoustics, AstroGrid-PL, Bioinformatics, Ecology, Energy Sector, Health Sciences, HEPGrid, Life Science, Materials, Metallurgy, Nanotechnologies, Quantum Chemistry and Molecular Physics, and SynchroGrid. The book describes the experience and scientific results achieved by the project partners. Chapters 1 to 8 provide a general overview of research and development activities in the framework of the project with emphasis on services for different scientific areas and an update on the status of the PL-Grid infrastructure, describing new developments in security and middleware. Chapters 9 to 13 discuss new environments and services which may be applied by all scientific communities. Chapters 14 to 36 present how the PLGrid Plus environments, tools and services are used in advanced domain specific computer simulations; these chapters present computational models, new algorithms, and ways in which they are implemented. The book also provides a glossary of terms and concepts. This book may serve as a resource for researchers, developers and system administrators working on efficient exploitation of available e-infrastructures, promoting collaboration and exchange of ideas in the process of constructing a common European e-infrastructure.

multigrid methods - Stephen F. McCormick 2020-08-12

This book is a collection of research papers on a wide variety of multigrid topics, including applications, computation and theory. It represents proceedings of the Third Copper Mountain Conference on Multigrid Methods, which was held at Copper Mountain, Colorado.

SIAM Journal on Applied Mathematics - Society for Industrial and Applied Mathematics 1966

Frontiers of Computational Fluid Dynamics 2002 - David A. Caughey 2002

This series of volumes on the 'Frontiers of Computational Fluid Dynamics' was introduced to honor contributors who have made a major impact on the field. The first volume was published in 1994 and was dedicated to Prof Antony Jameson; the second was published in 1998 and was dedicated to Prof Earl Murman. The volume is dedicated to Prof Robert MacCormack. The twenty-six chapters in the current volume have been written by leading researchers from academia, government laboratories, and industry. They present up-to-date descriptions of recent developments in techniques for numerical analysis of fluid flow problems, and applications of these techniques to important problems in industry, as well as the classic paper that introduced the 'MacCormack scheme' to the world.

AIAA Student Journal - American Institute of Aeronautics and Astronautics 1997

Symposium Transsonicum II - K. Oswatitsch 2012-12-06

The first Symposium Transsonicum took place in Aachen thirteen years ago during a period of decreasing governmental and industrial support for transonic flow research. Since then, there has been a strong revival in interest in transonic flow research so that the number of participants at the second symposium remained about the same as at the first even in spite of tight financial means and limited governmental support. During both meetings the number of participants reached the upper limit of the number desirable for such a symposium. Participants came from all over the world and there was a well-balanced distribution of participants from all countries interested in transonic flow research. The discussions - mostly conducted in English - were stimulating and there was a great deal of interest in the lectures as was shown by the good attendance even during the last session on Saturday morning.

Supercomputing - Jiro Kondo 2012-12-06

As the technology of supercomputing processes, methodologies for approaching problems have also been developed. The main object of this symposium was the interdisciplinary participation of experts in related fields and passionate discussion to work toward the solution of problems. An executive committee especially arranged for this symposium selected speakers and other participants who submitted papers which are included in this volume. Also included are selected extracts from the two sessions of panel discussion, the "Needs and Seeds of Supercomputing", and "The Future of Supercomputing", which arose during a wide-ranging exchange of viewpoints.

Numerical Mathematics and Applications - J. Vignes 2014-06-28

Numerical Mathematics and Applications

Numerical Methods in Fluid Dynamics - Franco Brezzi 2006-11-14

Already Gone - Ken Ham 2009

NATIONWIDE POLLS AND DENOMINATIONAL REPORTS ARE SHOWING THAT THE NEXT GENERATION IS CALLING IT QUITS ON THE TRADITIONAL CHURCH.

Transonic Symposium: Theory, Application, and Experiment - 1989

Macquarie Dictionary - Arthur Delbridge 2005

An authoritative reference resource on Australian English, the 4th edition of 'The Macquarie Dictionary' contains many examples of usage and etymology, as well as including entries on the people and places of Australia and the rest of the world.

Progress in Industrial Mathematics at ECMI 94 - Helmut Neunzert 1996

Learning Management System Technologies and Software Solutions for Online Teaching: Tools and Applications - Kats, Yefim 2010-05-31

"This book gives a general coverage of learning management systems followed by a comparative analysis of the particular LMS products, review of technologies supporting different aspects of educational process, and, the best practices and methodologies for LMS-supported course delivery"--Provided by publisher.

IUTAM Symposium Transsonicum IV - H. Sobieczky 2012-12-06

"Symposium Transsonicum" was founded by Klaus Oswatitsch four decades ago when there was clearly a need for a systematic treatment of flow problems in the higher speed regime in aeronautics. The first

conference in 1962 brought together scientists concerned with fundamental problems involving the sonic flow speed regime. Results of the conference provided an understanding of some basic transonic phenomena by proposing mathematical methods that allowed for the development of practical calculations. The "Transonic Controversy" (about shock free flows) was still an open issue after this meeting. In 1975 the second symposium was held, by then there was much understanding in how to avoid shocks in a steady plane flow to be designed, but still very little was known in unsteady phenomena due to a lack of elucidating experiments. A third meeting in 1988 reflected the availability of larger computers which allowed the numerical analysis of flows with shocks to a reasonable accuracy. Because we are trying to keep Oswatitsch's heritage in science alive especially in Göttingen, we were asked by the aerospace research community to organize another symposium. Much had been achieved already in the knowledge, technology and applications in transonics, so IUTAM had to be convinced that a fourth meeting would not just be a reunion of old friends reminiscing some scientific past. The scientific committee greatly supported my efforts to invite scientists actively working in transonic problems which still pose substantial difficulties to aerospace and turbomachinery industry.

Math Practice, Grade 5 - 2014-03-15

Kelley Wingate's Math Practice for fifth grade is designed to help students master basic math skills through focused math practice. Practice pages will be leveled in order to target each student's individual needs for support. Some pages will provide clear, step-by-step examples. The basic skills covered include multiplication and division of fractions, more advanced division, decimals, volume, and a comprehensive selection of other fifth grade math skills. This well-known series, Kelley Wingate, has been updated to align content to the Common Core State Standards. The 128-page books will provide a strong foundation of basic skills and will offer differentiated practice pages to make sure all students are well prepared to succeed in today's Common Core classroom. The books will include Common Core standards matrices, cut-apart flashcard sections, and award certificates. This series is designed to engage and recognize all learners, at school or at home.

32nd Aerospace Sciences Meeting & Exhibit: 94-0145 - 94-0179 - 1994

The African Book Publishing Record - 1985

Aerospace - 1993

Flow Control - Mohamed Gad-el-Hak 2003-07-01

No be certain it can is not based mathematics. knowledge if upon da Vinci, (Leonardo 1452 1519) the humankind. Thinking is one greatest of Joys of Galilei, (Galileo 1564 1642) Now I think is to be the root all hydrodynamics and is at of physical science, second the to none in its mathematics. present beauty of Thomson (William (Lord Kelvin), 1824 1907) The book contains the lecture notes of of the nine instructors at present eight the short Flow Control: Fundamentals and which held course was Practices, in the week 24 28 June and Carg6se, Corsica, France, during 1996, repeated at the of Notre 9 13 1996. University Dame, Indiana, September Following the week in the course a on same was held. Corsica, 5 day workshop topic Selected from the scheduled to 1998 workshop are papers appear early special volume of the International Journal Heat Thermo of Experimental Transfer, and Fluid All Mechanics. three events were Jean Paul dynamics, organized by Bonnet of Universit6 de Andrew Pollard of Univer Poitiers, France, Queen's at and Mohamed Gad el Hak of the of sity Kingston, Canada, University Notre U.S.A.

A Flight Test of Laminar Flow Control Leading-edge Systems - M. C. Fischer 1983

Naplan*-style Test Pack Year 5 - Alan Horsfield 2010

Engineering Mathematics in Ship Design - Cristiano Fragassa 2020-01-03
Engineering mathematics is a branch of applied mathematics where mathematical methods and techniques are implemented for solving problems related to the engineering and industry. It also represents a multidisciplinary approach where theoretical and practical aspects are deeply merged with the aim at obtaining optimized solutions. In line with that, the present Special Issue, 'Engineering Mathematics in Ship Design', is focused, in particular, with the use of this sort of engineering science in the design of ships and vessels. Articles are welcome when applied science or computation science in ship design represent the core of the discussion.

Third Conference on Sonic Boom Research - Ira R. Schwartz 1971
Prediction methods for sonic boom generation and propagation with overpressure minimization in supersonic transport design and operation.
International Aerospace Abstracts - 1998

Advances in Dynamics and Control - S. Sivasundaram 2004-04-27
Presenting research papers contributed by experts in dynamics and control, *Advances in Dynamics and Control* examines new ideas, reviews the latest results, and investigates emerging directions in the rapidly-growing field of aviation and aerospace. Exploring a wide range of topics, key areas discussed include: * rotorcraft dynamics* stabilization of
Microcomputers in Secondary Education - Shigeichi Moriguchi 1987
Hardbound. As microcomputers become increasingly more powerful, and relatively less expensive, their effect on secondary education continues to grow rapidly. With this in mind, this book focusses on current trends in Asia and the Pacific region. Contributors present their own extensive classroom practice and experience, and provide the basis for the future planning necessary to promote the use of microcomputers in secondary education.

Year 9 NAPLAN*-style Literacy Tests - Bianca Hewes 2010
This book is designed for parents who want to help their children and for teachers who wish to prepare their class for the NAPLAN Literacy Tests. NAPLAN Tests are sat by Year 9 students Australia-wide. These tests are held in May every year.

Perspectives in Turbulence Studies - Hans U. Meier 2012-12-06
The present volume entitled "Perspectives in Turbulence Studies" is dedicated to Dr. Ing. E. h. Julius C. Rotta in honour of his 75th birthday. J. C. Rotta, born on January 1, 1912, started his outstanding career in an unusual way, namely in a drawing office (1928 - 1931). At the same time he - as a purely self taught perso- took a correspondence course in airplane construction. From 1934 to 1945 he worked in the aircraft

industry on different subjects in the fields of flight mechanics, structures, air craft design, and aerodynamics. In 1945 he moved to Gottingen and worked from that time at the Aerodynamische Versuchsanstalt (AVA, now DFVLR) and the Max-Planck-Institut fur Stromungsforschung (1947-1958), interrupted only by a stay in the U. S. at the Glenn L. Martin Company (1954 - 1955) and a visiting professorship at the Laval University in Quebec, Canada (1956). Already during his activities in industry, Dr. Rotta discovered his special liking for aerodynamics. In Gottingen, he was attracted by Ludwig Prandtl's discussions about problems associated with turbulence and in particular his new contribution to fully developed turbulence, published in 1945. At that time, W. Heisenberg and C. F. v. Weizacker published their results on the energy spectra of isotropic turbulence at large wave numbers. Since that time his main research interest in reasearch has been in turbulence problems.

Aerial Robots - Omar D Lopez Mejia 2017-09-06
Few years ago, the topic of aerial robots was exclusively related to the robotics community, so a great number of books about the dynamics and control of aerial robots and UAVs have been written. As the control technology for UAVs advances, the great interaction that exists between other systems and elements that are as important as control such as aerodynamics, energy efficiency, acoustics, structural integrity, and applications, among others has become evident. *Aerial Robots - Aerodynamics, Control, and Applications* is an attempt to bring some of these topics related to UAVs together in just one book and to look at a selection of the most relevant problems of UAVs in a broader engineering perspective.

Symposium Transsonicum II, Göttingen, September 8-13, 1975 - Klaus Oswatitsch 1976

The Aeronautical Journal - 2005