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### International Conference on Innovative Computing and Communications Springer

The sudden outbreak of the COVID-19 pandemic has curbed human lifestyle by imposing restrictions on regular daily movements that had been taken for granted. Due to the pandemic, the welfare segment has received more attention, and every possible effort is being made to prioritize the services at the top. This can be made possible while using the latest tools, technologies, and resources that impact the human culture and welfare of well-being. Novel methods and devices that make the welfare services more efficient, adaptive, transparent, and cost-effective need to be explored. The Handbook of Research on Lifestyle Sustainability and Management Solutions Using AI, Big Data Analytics, and Visualization offers extensive research on lifestyle management and services that contribute towards indication, detection, conduction, protection, and technological enhancement including machine learning, deep learning, artificial intelligence, big data analytics, and visualization. It also provides mechanisms that can improve lifestyle monitoring and help in increasing the immunity of the human body. Covering topics such as big data, robot therapy, and wearable technology, it is ideal for students, researchers, technologists, IT specialists, computer engineers, systems engineers, data

scientists, doctors, hospital administrators, engineers, academicians, and technology providers.

### International Security Springer

This volume contains the papers presented at INDIA-2012: International conference on Information system Design and Intelligent Applications held on January 5-7, 2012 in Vishakhapatnam, India. This conference was organized by Computer Society of India (CSI), Vishakhapatnam chapter well supported by Vishakhapatnam Steel, RINL, Govt of India. It contains 108 papers contributed by authors from six different countries across four continents. These research papers mainly focused on intelligent applications and various system design issues. The papers cover a wide range of topics of computer science and information technology discipline ranging from image processing, data base application, data mining, grid and cloud computing, bioinformatics among many others. The various intelligent tools like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been applied in different papers for solving various challenging IT related problems.

### Analysis and Design of Hybrid Systems 2003 (ADHS 03)

Thermal Spray 2007: Global Coating Solutions: Proceedings of the 2007 International Thermal Spray Conference

This book concerns a rapidly developing area of science that deals with the behavior of porous media saturated by fluids. Three basic aspects of this field are rather uniformly balanced in the book; namely, complex physical mechanisms of processes in porous media, new mathematical models, and numerical methods of process study. The following topics are included: homogenization and up-scaling of flow through heterogeneous media; micro-structural laws of complex flow at the pore scale;

flow with phase transition and chemical reactions in porous media; wave propagation in saturated porous media; numerical model of flow in natural oil reservoirs; non-classical models of flow, percolation, fractals, foam flow; multi-phase flow with free surface. The contributors to this volume are leading researchers in the field.

Proceedings of Sixth International Congress on Information and Communication Technology Springer Science & Business Media This volume of Advances in Soft Computing and Lecture Notes in Computer th Science vols. 5551, 5552 and 5553, constitute the Proceedings of the 6 Inter- tional Symposium of Neural Networks (ISNN 2009) held in Wuhan, China during May 26 – 29, 2009.

ISNN is a prestigious annual symposium on neural networks with past events held in Dalian (2004), Chongqing (2005), Chengdu (2006), N- jing (2007) and Beijing (2008). Over the past few years, ISNN has matured into a well-established series of international conference on neural networks and their applications to other fields. Following this tradition, ISNN 2009 provided an a- demic forum for the participants to disseminate their new research findings and discuss emerging areas of research. Also, it created a stimulating environment for the participants to interact and exchange information on future research challenges and opportunities of neural networks and their applications. ISNN 2009 received 1,235 submissions from about 2,459 authors in 29 co- tries and regions (Australia, Brazil, Canada, China, Democratic People's Republic of Korea, Finland, Germany, Hong Kong, Hungary, India, Islamic Republic of Iran, Japan, Jordan, Macao, Malaysia, Mexico, Norway, Qatar, Republic of Korea, Singapore, Spain, Taiwan, Thailand, Tunisia, United Kingdom, United States, Venezuela, Vietnam, and Yemen) across six continents (Asia, Europe, North America, South America, Africa, and Oceania).

Based on rigorous reviews by the Program Committee members and reviewers, 95 high-quality papers were selected to be published in this volume.

*Proceedings of Sixth International Conference on Soft Computing for Problem Solving* CQ Press

The goal of this monograph is to prove that any solution of the Cauchy problem for the capillary-gravity water waves equations, in one space dimension, with periodic, even in space, small and smooth enough initial data, is almost globally defined in time on Sobolev spaces, provided the gravity-capillarity parameters are taken outside an exceptional subset of zero measure. In contrast to the many results known for these equations on the real line, with decaying Cauchy data, one cannot make use of dispersive properties of the linear flow. Instead, a normal forms-based procedure is used, eliminating those contributions to the Sobolev energy that are of lower degree of homogeneity in the solution. Since the water waves equations form a quasi-linear system, the usual normal forms approaches would face the well-known problem of losses of derivatives in the unbounded transformations. To overcome this, after a parilinearization of the capillary-gravity water waves equations, we perform several paradifferential reductions to obtain a diagonal system with constant coefficient symbols, up to smoothing remainders. Then we start with a normal form procedure where the small divisors are compensated by the previous paradifferential regularization. The reversible structure of the water waves equations, and the fact that we seek solutions even in space, guarantees a key cancellation which prevents the growth of the Sobolev norms of the solutions.

**11th International Symposium on Process Systems Engineering - PSE2012** Springer

'An important and timely book' from the Foreword by Stanley Johnson 'A complete and absorbing history of a decade of intense international politics offers many insights for future negotiators of sustainable solutions' Stephen Bass, International Institute for Environment and Development 'Skillfully navigates the jungle of forest politics, leaving us in no doubt that the verbal commitment to save the world's forests has yet to be translated into

action on the ground. The way forward must clearly lie in political commitments and international cooperation if forests are to continue to preserve life on Earth' Francis Sullivan, World Wide Fund for Nature Global deforestation and its attendant processes - including soil degradation, climate change and the loss of biological diversity - emerged as international political issues during the 1980s, prompting politicians to seek consensus on programmes and policies for the conservation and sustainable management of forests. Yet global initiatives have been bedevilled by tensions between the North and South and between governments, industry, local communities and indigenous peoples. Meanwhile, rates of deforestation in the tropics are increasing, and international political efforts are demonstrably failing. *Forest Politics* carefully traces the evolution of international cooperation on forests, from the inception of the controversial International Tropical Timber Organization and the failed Tropical Forestry Action Programme in the mid-1980s, to the creation of the Intergovernmental Panel on Forests in the mid-1990s. The book also provides a detailed analysis of the negotiating stances of the parties involved in the divisive negotiations that took place prior to the 1992 'Earth Summit' in Rio de Janeiro and the equally factious negotiations for the International Tropical Timber Agreement of 1994. It provides a fascinating insight into the nature of such processes, illustrating the difficulties that arise when concepts such as 'global commons' come into conflict with national sovereignty. Complete with annexes of important political documents, and making extensive use of primary source material and interviews with participants. *Forest Politics* presents case studies of all the major forest negotiations over the last 13 years. It is an essential reference point for policy makers, environmental campaigners and students, and required reading for all those who care about the future of the world's forests. David Humphreys is Research Fellow in Global Environmental Change at the Open University. Originally published in 1996

*Forest Politics* Springer Science & Business Media

The present volume comprises survey articles on various fields of Differential-Algebraic Equations (DAEs), which have widespread applications in controlled dynamical systems, especially in

mechanical and electrical engineering and a strong relation to (ordinary) differential equations. The individual chapters provide reviews, presentations of the current state of research and new concepts in - Flexibility of DAE formulations - Reachability analysis and deterministic global optimization - Numerical linear algebra methods - Boundary value problems The results are presented in an accessible style, making this book suitable not only for active researchers but also for graduate students (with a good knowledge of the basic principles of DAEs) for self-study.

**International Conference on Industrial Engineering and Management Science-2013** Springer Science & Business Media  
Thermal Spray 2007: Global Coating Solutions: Proceedings of the 2007 International Thermal Spray Conference ASM International  
Porous Media World Scientific

*Multi-Level Decision Making* Springer Nature

Global Optimization has emerged as one of the most exciting new areas of mathematical programming. Global optimization has received a wide attraction from many fields in the past few years, due to the success of new algorithms for addressing previously intractable problems from diverse areas such as computational chemistry and biology, biomedicine, structural optimization, computer sciences, operations research, economics, and engineering design and control. This book contains refereed invited papers submitted at the 4th international conference on Frontiers in Global Optimization held at Santorini, Greece during June 8-12, 2003. Santorini is one of the few sites of Greece, with wild beauty created by the explosion of a volcano which is in the middle of the gulf of the island. The mystic landscape with its numerous multi-extrema, was an inspiring location particularly for researchers working on global optimization. The three previous conferences on "Recent Advances in Global Optimization", "State-of-the-Art in Global Optimization", and "Optimization in Computational Chemistry and Molecular Biology: Local and Global approaches" took place at Princeton University in 1991, 1995, and 1999, respectively. The papers in this volume focus on deterministic methods for global optimization, stochastic methods for global optimization, distributed computing methods in global optimization, and applications of global optimization in several branches of applied science and engineering, computer science, computational chemistry, structural biology, and bio-informatics.

**Cities and Global Governance** World Scientific

This book introduces readers to Bayesian optimization, highlighting advances in the field and showcasing its successful applications to computer experiments. R code is available as online supplementary material for most included examples, so that readers can better comprehend and reproduce methods. Compact and accessible, the volume is broken down into four chapters. Chapter 1 introduces the reader to the topic of computer experiments; it includes a variety of examples across many industries. Chapter 2 focuses on the task of

surrogate model building and contains a mix of several different surrogate models that are used in the computer modeling and machine learning communities. Chapter 3 introduces the core concepts of Bayesian optimization and discusses unconstrained optimization. Chapter 4 moves on to constrained optimization, and showcases some of the most novel methods found in the field. This will be a useful companion to researchers and practitioners working with computer experiments and computer modeling. Additionally, readers with a background in machine learning but minimal background in computer experiments will find this book an interesting case study of the applicability of Bayesian optimization outside the realm of machine learning.

Porous Media Springer

This two-volume book gathers the proceedings of the Sixth International Conference on Soft Computing for Problem Solving (SocProS 2016), offering a collection of research papers presented during the conference at Thapar University, Patiala, India. Providing a veritable treasure trove for scientists and researchers working in the field of soft computing, it highlights the latest developments in the broad area of "Computational Intelligence" and explores both theoretical and practical aspects using fuzzy logic, artificial neural networks, evolutionary algorithms, swarm intelligence, soft computing, computational intelligence, etc.

**FOCAPD-19/Proceedings of the 9th International Conference on Foundations of Computer-Aided Process Design, July 14 - 18, 2019** Springer Science & Business Media

This book presents reviews and new findings in the field of the very early universe, where the interests of particle theorists and astrophysicists meet. Also, WIMP search experiments are reported. Contents: Cold Dark Matter Cosmology: Status and Open Questions (J R Primack)Review of Cosmological Parameters (W L Freedman)Relic Neutralinos: An Overview (A Bottino)Neutralino Proton Cross Section and Dark Matter Detection (R Arnowitt et al.)What is the Dark Matter of the Universe? (G L Kane)Axino — New Candidate for Cold Dark Matter (L Roszkowski)Signature for Signals from the Dark Universe (P Belli et al.)Limits on the WIMP-Nucleon Cross-Section from the Cryogenic Dark Matter Search (R W Schnee et al.)Large N Cosmology (S W Hawking)Observational Constraints on Models of Inflation

(D Lyth)Atmospheric and Solar Neutrino Masses and Abelian Flavor Symmetry (K Choi)Current Experimental Status of Neutrino Oscillation (K Nakamura)Tunneling Phenomena in Cosmology: Some Fundamental Problems (M Yoshimura)The Cosmological Constant and the Brane World Scenario (H P Nilles)Color Superconductivity and Compact Star Cooling (D K Hong)and other papers Readership: Graduate students, academics and researchers in high energy physics, astrophysics, astronomy and cosmology Keywords:Dark Matter;Cosmology;Relic Neutralinos;Neutralino Proton;Atmospheric and Solar Neutrino;Neutrino Oscillation;Superconductivity

Rough Sets and Knowledge Technology Routledge

FOCAPD-19/Proceedings of the 9th International Conference on Foundations of Computer-Aided Process Design, July 14 - 18, 2019, compiles the presentations given at the Ninth International Conference on Foundations of Computer-Aided Process Design, FOCAPD-2019. It highlights the meetings held at this event that brings together researchers, educators and practitioners to identify new challenges and opportunities for process and product design. Combines presentations from the Ninth International Conference on Foundations of Computer-Aided Process Design, FOCAPD-2019 Integration of AI and OR Techniques in Constraint Programming Springer Science & Business Media

Special functions and q-series are currently very active areas of research which overlap with many other areas of mathematics, such as representation theory, classical and quantum groups, affine Lie algebras, number theory, harmonic analysis, and mathematical physics. This book presents the state-of-the-art of the subject and its applications. Contents: Integral Representations of Quasi Hypergeometric Functions (K Aomoto)Generating Functions Associated with Dihedral Groups (C F Dunkl)Some Relations for Partitions into Four Squares (M D Hirschhorn & J A Sellers)On a Nonlinear Recurrence Related to Nevai Polynomials (D Kaminski)The Brahmagupta Matrix and Its Applications to Tiling (R Rangarajan & E R Suryanarayan)Solitons and Coulomb Plasmas, Similarity Reductions and Special Functions (V P Spiridonov)Orthogonal Polynomials and Their Asymptotic Behavior (R Wong)A Product Formula for Jacobi Polynomials (Y Xu)and other papers Readership: Researchers and graduate students in asymptotics, harmonic analysis and mathematical physics. Keywords:Special Functions;q-Series;Quasi Hypergeometric Functions;Generating

Functions;Nevai Polynomials;Brahmagupta Matrix;Tiling;Orthogonal Polynomials;Jacobi Polynomials;Asymptotics;Harmonic Analysis World Scientific

Global Problems, Global Solutions: Prospects for a Better World by JoAnn Chirico approaches social problems from a global perspective with an emphasis on using one's sociological imagination. Perfect for instructors who involve students in research, this text connects problems borne by individuals to regional, global, and historical forces, and stresses the importance of evidence in forming opinions and policies addressing social issues. The book introduces readers to the complexities of the major problems that confront us today such as violent conflict, poverty, climate change, human trafficking and other issues that we encounter in our lives. It book concludes with a chapter on politics and government, underscoring the need for good governance at all levels—and cooperation among many layers of government—to build a better world.

**Proceedings of the 12th International Conference on Computer Engineering and Networks** Springer Nature

The book is a collection of high quality peer reviewed research papers presented in Seventh International Conference on Bio-Inspired Computing (BIC-TA 2012) held at ABV-IIITM Gwalior, India. These research papers provide the latest developments in the broad area of "Computational Intelligence". The book discusses wide variety of industrial, engineering and scientific applications of nature/bio-inspired computing and presents invited papers from the inventors/originators of novel computational techniques.

*Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (India 2012) held in Visakhapatnam, India, January 2012* Springer

While the PSE community continues its focus on understanding, synthesizing, modeling, designing, simulating, analyzing, diagnosing, operating, controlling, managing, and optimizing a host of chemical and related industries using the systems approach, the boundaries of PSE research have expanded considerably over the years. While early PSE research was largely concerned with individual units and plants, the current research spans wide ranges of scales in size (molecules to processing units to plants to global multinational enterprises to global supply chain networks;

biological cells to ecological webs) and time (instantaneous molecular interactions to months of plant operation to years of strategic planning). The changes and challenges brought about by increasing globalization and the common global issues of energy, sustainability, and environment provide the motivation for the theme of PSE2012: Process Systems Engineering and Decision Support for the Flat World. Each theme includes an invited chapter based on the plenary presentation by an eminent academic or industrial researcher. Reports on the state-of-the-art advances in the various fields of process systems engineering. Addresses common global problems and the research being done to solve them. COSMO-2000 Ashgate Publishing, Ltd.

This book constitutes the proceedings of the 14th International Conference on Integration of Artificial Intelligence and Operations Research Techniques in Constraint Programming for Combinatorial Optimization Problems, CPAIOR 2017, held in Padua, Italy, in June 2017. The 32 full papers presented together with 6 abstracts were carefully reviewed and selected from numerous submissions. The conference brings together interested researchers from constraint programming, artificial intelligence, and operations research to present new techniques or applications in the intersection of these fields and provides an opportunity for researchers in one area to learn about techniques in the others, and to show how the integration of techniques from different fields can lead to interesting results on large and complex problems.

*Methods and Applications of Analysis* Elsevier

This conference proceeding is a collection of the papers accepted by the CENet2022 – the 12th International Conference on Computer Engineering and Networks held on November 4-7, 2022 in Haikou, China. The topics focus but are not limited to Internet of Things and Smart Systems, Artificial Intelligence and Applications, Communication System Detection, Analysis and Application, and Medical Engineering and Information Systems. Each part can be used as an excellent reference by industry practitioners, university faculties, research fellows and undergraduates as well as graduate students who need to build a knowledge base of the most current advances and state-of-practice in the topics covered by this conference proceedings. This will enable them to produce, maintain, and manage systems with high levels of trustworthiness and complexity.

*Proceedings of the 2015 International Conference on Communications, Signal Processing, and Systems* Elsevier

It is with great pleasure that we present to you a collection

of over 200 high quality technical papers from more than 10 countries that were presented at the Biomed 2008. The papers cover almost every aspect of Biomedical Engineering, from artificial intelligence to biomechanics, from medical informatics to tissue engineering. They also come from almost all parts of the globe, from America to Europe, from the Middle East to the Asia-Pacific. This set of papers presents to you the current research work being carried out in various disciplines of Biomedical Engineering, including new and innovative researches in emerging areas. As the organizers of Biomed 2008, we are very proud to be able to come-up with this publication. We owe the success to many individuals who worked very hard to achieve this: members of the Technical Committee, the Editors, and the International Advisory Committee. We would like to take this opportunity to record our thanks and appreciation to each and every one of them. We are pretty sure that you will find many of the papers illuminating and useful for your own research and study. We hope that you will enjoy yourselves going through them as much as we had enjoyed compiling them into the proceedings. Assoc. Prof. Dr. Noor Azuan Abu Osman Chairperson, Organising Committee, Biomed 2008