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KEY=SWNET - HANA BEATRICE

Trends in Intelligent Robotics, Automation, and Manufacturing

First International Conference, IRAM 2012, Kuala Lumpur, Malaysia, November 28-30, 2012, Proceedings

Springer This book constitutes the proceedings of the First International Conference on Intelligent Robotics and Manufacturing, IRAM 2012, held in Kuala Lumpur, Malaysia, in November 2012. The 64 revised full papers included in this volume were carefully reviewed and selected from 102 initial submissions. The papers are organized in topical sections named: mobile robots, intelligent autonomous systems, robot vision and robust, autonomous agents, micro, meso and nano-scale automation and assembly, flexible manufacturing systems, CIM and micro-machining, and fabrication techniques.

Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy

Proceedings of the First International Conference, MMCITRE 2020

Springer Nature This book presents new knowledge and recent developments in all aspects of computational techniques, mathematical modeling, energy systems, applications of fuzzy sets and intelligent computing. The book is a collection of best selected research papers presented at the International Conference on "Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy," organized by the Department of Mathematics, Pandit Deendayal Petroleum University, in association with Forum for Interdisciplinary Mathematics, Institution of Engineers (IEI) - Gujarat and Computer Society of India (CSI) - Ahmedabad. The book provides innovative works of researchers, academicians and students in the area of interdisciplinary mathematics, statistics, computational intelligence and renewable energy.

Utilization of Space

Today and Tomorrow

Springer Science & Business Media Describes the various fields of application of astronautics and the underlying technology. Written on a level understandable for non-specialists. Provides an outlook on the future of this fascinating field.

Hacking Exposed Computer Forensics

Secrets & Solutions

McGraw Hill Professional Investigate computer crime, corporate malfeasance, and hacker break-ins quickly and effectively with help from this practical and comprehensive resource. You'll get expert information on crucial procedures to successfully prosecute violators while avoiding the pitfalls of illicit searches, privacy violations, and illegally obtained evidence. It's all here--from collecting actionable evidence, re-creating the criminal timeline, and zeroing in on a suspect to uncovering obscured and deleted code, unlocking encrypted files, and preparing lawful affidavits. Plus, you'll get in-depth coverage of the latest PDA and cell phone investigation techniques and real-world case studies.

Voltammetry

Theory, Types and Applications

Nova Science Pub Incorporated Voltammetry is the study of current as a function of applied potential and is a category of electroanalytical methods used in analytical chemistry and various industrial processes. In this book, the authors discuss the theory, types and applications of voltammetry. Topics include voltammetric techniques in electrocatalytic studies; voltammetry and stoichiography for studying the chemical composition and real structure of solid inorganic substances and materials; voltammetric techniques applied on organic compounds related to agroalimentary and health systems; using voltammetry as a promising analytical technique in the study of compounds of biological importance; automatized determination of metallothionein by adsorptive transfer stripping techniques coupled with Brdicka reaction; overcoming drawbacks and going further with practical electroanalysis; voltammetric determination of metals as food contaminants; dual dynamic voltammetry with rotating ring-disk electrodes; linear voltammetry of anodic selective dissolution of homogeneous metallic alloys; electrooxidation of glycine and α -alanine on platinum; and temperature responses in linear voltammetry.

Writing Papers in the Biological Sciences

Bedford Books Writing in the Biological Sciences is a handy reference that new to advanced students can readily use on their own. A variety of student models prepare you for the most common writing assignments in undergraduate biology courses.

Theory of Linear and Integer Programming

John Wiley & Sons Theory of Linear and Integer Programming Alexander Schrijver Centrum voor Wiskunde en Informatica, Amsterdam, The Netherlands This book describes the theory of linear and integer programming and surveys the algorithms for linear and integer programming problems, focusing on complexity analysis. It aims at complementing the more practically oriented books in this field. A special feature is the author's coverage of important recent developments in linear and integer programming. Applications to combinatorial optimization are given, and the author also includes extensive historical surveys and bibliographies. The book is intended for graduate students and researchers in operations research, mathematics and computer science. It will also be of interest to mathematical historians. Contents 1 Introduction and preliminaries; 2 Problems, algorithms, and complexity; 3 Linear algebra and complexity; 4 Theory of lattices and linear diophantine equations; 5 Algorithms for linear diophantine equations; 6 Diophantine approximation and

basis reduction; 7 Fundamental concepts and results on polyhedra, linear inequalities, and linear programming; 8 The structure of polyhedra; 9 Polarity, and blocking and anti-blocking polyhedra; 10 Sizes and the theoretical complexity of linear inequalities and linear programming; 11 The simplex method; 12 Primal-dual, elimination, and relaxation methods; 13 Khachiyan's method for linear programming; 14 The ellipsoid method for polyhedra more generally; 15 Further polynomiality results in linear programming; 16 Introduction to integer linear programming; 17 Estimates in integer linear programming; 18 The complexity of integer linear programming; 19 Totally unimodular matrices: fundamental properties and examples; 20 Recognizing total unimodularity; 21 Further theory related to total unimodularity; 22 Integral polyhedra and total dual integrality; 23 Cutting planes; 24 Further methods in integer linear programming; Historical and further notes on integer linear programming; References; Notation index; Author index; Subject index

Obesity

Mechanisms and Clinical Management

Lippincott Williams & Wilkins Written by an international group of leading experts on obesity and related disorders, this volume is the first to address the clinical aspects of obesity. The contributors review the latest clinically relevant findings on the etiology and pathophysiology of obesity, examine the full spectrum of comorbid conditions and complications, and discuss the role of drugs, behavioral interventions, exercise, and surgery in treatment of obesity. Compatibility: BlackBerry(R) OS 4.1 or Higher / iPhone/iPod Touch 2.0 or Higher / Palm OS 3.5 or higher / Palm Pre Classic / Symbian S60, 3rd edition (Nokia) / Windows Mobile(TM) Pocket PC (all versions) / Windows Mobile Smartphone / Windows 98SE/2000/ME/XP/Vista/Tablet PC

Design of Visualizations for Human-Information Interaction

A Pattern-Based Framework

Morgan & Claypool Publishers Interest in visualization design has increased in recent years. While there is a large body of existing work from which visualization designers can draw, much of the past research has focused on developing new tools and techniques that are aimed at specific contexts. Less focus has been placed on developing holistic frameworks, models, and theories that can guide visualization design at a general level—a level that transcends domains, data types, users, and other contextual factors. In addition, little emphasis has been placed on the thinking processes of designers, including the concepts that designers use, while they are engaged in a visualization design activity. In this book we present a general, holistic framework that is intended to support visualization design for human-information interaction. The framework is composed of a number of conceptual elements that can aid in design thinking. The core of the framework is a pattern language—consisting of a set of 14 basic, abstract patterns—and a simple syntax for describing how the patterns are blended. We also present a design process, made up of four main stages, for creating static or interactive visualizations. The 4-stage design process places the patterns at the core of designers' thinking, and employs a number of conceptual tools that help designers think systematically about creating visualizations based on the information they intend to represent. Although the framework can be used to design static visualizations for simple tasks, its real utility can be found when designing visualizations with interactive possibilities in mind—in other words, designing to support a human-information interactive discourse. This is especially true in contexts where interactive visualizations need to support complex tasks and activities involving large and complex information spaces. The framework is intended to be general and can thus be used to design visualizations for diverse domains, users, information spaces, and tasks in different fields such as business intelligence, health and medical informatics, digital libraries, journalism, education, scientific discovery, and others. Drawing from research in multiple disciplines, we introduce novel concepts and terms that can positively contribute to visualization design practice and education, and will hopefully stimulate further research in this area.

Load Calculation Applications Manual (I-P Edition)

Ashrae "This manual focuses on the calculation of cooling and heating loads for commercial buildings. The heat balance method (HBM) and radiant time series method (RTSM) (as well as how to implement these methods) are discussed. Heat transfer processes and their analysis, psychrometrics, and heating load calculations are also considered"--

Origin, Evolution, and Modern Aspects of Biomineralization in Plants and Animals

Springer The Fifth International Biomineralization Symposium was held in May 1986 at The University of Texas at Arlington, Arlington, Texas. The chosen theme was the origin, evolution and modern aspects of biomineralization in plants and animals. Thus, the symposium was designed to bring together experts in ocean and atmospheric chemistry, geochemistry, paleontology, biology, medicine and related fields to share accumulated knowledge and to broaden research horizons. The contents of this volume reflect the diversified interests and views of contributors from these fields. Topics range from contrasting views of the origin of ocean chemistry, the cause or causes for the biomineralization among plants and animals, the evolution of style and structure of biomineralization, and the role of inorganic and organic compounds in biomineralization. It was clear from those gathered in Arlington that the efforts of all researchers in any aspect of biomineralization can be strengthened and extended by greater exposure to the work of others in allied fields. At the time of this printing, several collaborative efforts have grown from interest and contacts developed during the symposium. Rex E. Crick viii ACKNOWLEDGEMENTS The symposium would not have occurred with the financial support of The Organized Research Fund of The University of Texas at Arlington and The Sea Grant Program administered by Texas A & M University. The staff of the Department of Geology of The University of Texas at Arlington were largely responsible for providing a pleasant atmosphere for learning.

Protein Structure Prediction

Springer Science & Business Media This book covers elements of both the data-driven comparative modeling approach to structure prediction and also recent attempts to simulate folding using explicit or simplified models. Despite the unsolved mystery of how a protein folds, advances are being made in predicting the interactions of proteins with other molecules. Also rapidly advancing are the methods for solving the inverse folding problem, the problem of finding a sequence to fit a structure. This book focuses on the various computational methods for prediction, their successes and their limitations, from the perspective of their most well known practitioners.

Biominerals and Fossils Through Time

Cambridge University Press Fossils are essential to the reconstruction of the evolution of life and episodes in Earth history. Knowledge of biomineralization - the processes associated with the formation of mineralized biological structures - is essential to properly evaluate data derived from fossils. This book emphasizes skeletal formation and fossilization in a geologic framework in order to understand evolution, relationships between fossil groups, and the use of biomineral materials as geochemical proxies for understanding ancient oceans and climates. The focus is on shells and skeletons of calcareous organisms, and the book explores the fine structures and mode of growth of the characteristic crystalline units, taking advantage of most recent physical methodological advances. The book is richly illustrated and will be of great interest to advanced students and researchers in paleontology, Earth history, evolution, sedimentology, geochemistry, and materials science.

Current Advances in Genetics

Ecology Abstracts

Coverage: 1982- current; updated: monthly. This database covers current ecology research across a wide range of disciplines, reflecting recent advances in light of growing evidence regarding global environmental change and destruction. Major areas of subject coverage include: Algae/lichens, Animals, Annelids, Aquatic ecosystems, Arachnids, Arid zones, Birds, Brackish water, Bryophytes/pteridophytes, Coastal ecosystems, Conifers, Conservation, Control, Crustaceans, Ecosystem studies, Fungi, Grasses, Grasslands, High altitude

environments, Human ecology, Insects, Legumes, Mammals, Management, Microorganisms, Molluscs, Nematodes, Paleo-ecology, Plants, Pollution studies, Reptiles, River basins, Soil, TAiga/tundra, Terrestrial ecosystems, Vertebrates, Wetlands, Woodlands.

Blue Frontiers

Managing the Environmental Costs of Aquaculture

WorldFish

PC Hacks

100 Industrial-Strength Tips & Tools

"O'Reilly Media, Inc." Presents information on getting the most out of a PC's hardware and software, covering such topics as upgrading the BIOS, configuring the hard drive, installing more RAM, improving CPU performance, and adding COM ports.

The Heat Balance of the Earth's Surface

Students' Hand-book

UMTA-IT

Die Rolle der Astronomie in den Kulturen Mesopotamiens

Beiträge zum 3. Grazer Morgenländischen Symposion (23.-27. September 1991)

Cooling and Heating Load Calculation Manual

The Economics of Salmon Aquaculture

John Wiley & Sons First published in 1990, *The Economics of Salmon Aquaculture* was the first book to systematically analyse the salmon aquaculture industry, from both a market and production perspective. Since publication of the first edition of this book, the salmon aquaculture industry has grown at a phenomenal rate, with salmon now being consumed in more than 100 countries worldwide. This second edition of a very popular and successful book brings the reader right up to date with all the major current issues pertaining to salmon aquaculture. Commencing with an overview of the production process in aquaculture, the following chapters provide in-depth coverage of the sources of the world's supply of salmon, the growth in productivity, technological changes, environmental issues, markets, market structure and competitiveness, lessons that can be learnt from the culture of

other species, optimal harvesting techniques, production planning, and investment in salmon farms. Written by Frank Ashe and Trond Bjørndal, two of the world's leading experts in the economics of aquaculture, this second edition of *The Economics of Salmon Aquaculture* provides the salmon aquaculture industry with an essential reference work, including a wealth of commercially important information. This book is also a valuable resource for upper level students and professionals in aquaculture and economics, and libraries in all universities and research establishments where these subjects are studied and taught should have copies of this important book on their shelves.

Memoir from Antproof Case

Mariner Books Writing his memoirs from a mountain garden in Brazil, an elderly American recounts his experiences as a World War II ace, an investment banker, a resident in a Switzerland insane asylum, a murderer, and a slave to his coffee addiction. Reprint.

Learn BlackBerry 10 App Development

A Cascades-Driven Approach

Apress Learn how to leverage the BlackBerry 10 Cascades framework to create rich native applications. *Learn BlackBerry 10 App Development* gives you a solid foundation for creating BlackBerry 10 apps efficiently. Along the way, you will learn how to use QML and JavaScript for designing your app's UI, and C++/Qt for the application logic. No prior knowledge of C++ is assumed and the book covers the fundamental aspects of the language for writing BlackBerry 10 apps. Also a particular emphasis is put on how to create a visually enticing user experience with the Cascades framework, which is based on Qt and QML. Starting with the native SDK configuration and an overview of the Momentics IDE, the book is fast-paced and you will rapidly learn many of the best practices and techniques required for developing beautiful BlackBerry 10 apps. *Learn BlackBerry 10 App Development* is written for developers wishing to learn how to write apps for the new BlackBerry 10 OS and those interested in porting existing iOS and Android apps to BlackBerry 10 as native applications.

Global Physical Climatology

Academic Press **Global Physical Climatology** is an introductory text devoted to the fundamental physical principles and problems of climate sensitivity and change. Addressing some of the most critical issues in climatology, this text features incisive coverage of topics that are central to understanding orbital parameter theory for past climate changes, and for anthropogenic and natural causes of near-future changes-- Key Features * Covers the physics of climate change * Examines the nature of the current climate and its previous changes * Explores the sensitivity of climate and the mechanisms by which humans are likely to produce near-future climate changes * Provides instructive end-of-chapter exercises and appendices

The Pacific Arctic Region

Ecosystem Status and Trends in a Rapidly Changing Environment

Springer The Pacific Arctic region is experiencing rapid sea ice retreat, seawater warming, ocean acidification and biological response. Physical and biogeochemical modeling indicates the potential for step-function changes to the overall marine ecosystem. This synthesis book was coordinated within the Pacific Arctic Group, a network of international partners working in the Pacific Arctic. Chapter topics range from atmospheric and physical sciences to chemical processing and biological response to changing environmental conditions. Physical and biogeochemical modeling results highlight the need for data collection and interdisciplinary modeling activities to track and forecast the changing ecosystem of the Pacific Arctic with climate change.

Fields of Force

Sagwan Press This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Internetworking Devices

The Earth System

For courses in Earth Systems Science offered in departments of Geology, Earth Science, Geography and Environmental Science. The first textbook of its kind that addresses the issues of global change from a true Earth systems perspective, *The Earth System* offers a solid emphasis on lessons from Earth's history that may guide decision-making in the future. It is more rigorous and quantitative than traditional Earth science books, while remaining appropriate for non-science majors.

The State of World Fisheries and Aquaculture 2012

Food & Agriculture Org This edition of *The State of World Fisheries and Aquaculture* highlights the vital role of fisheries and aquaculture in both food and nutrition security as well as economic expansion. The sector remains a major supplier of high-quality animal protein and supports the livelihoods and well-being of more than ten percent of the world's population. International trade in fish has reached new peaks as overall production has continued to rise. Yet, as the document underlines, an array of problems--ranging from the need for more effective governance to that of ensuring environmental sustainability--threatens to undermine the sector's valuable contribution to alleviating hunger and reducing poverty. Using the latest available statistics on fisheries and aquaculture, this edition presents a global analysis of the sector's status and trends.

A Farewell to Ice

A Report from the Arctic

Oxford University Press Ice, the magic crystal -- A brief history of ice on planet Earth -- The modern cycle of ice ages -- The greenhouse effect -- Sea ice meltback begins -- The future of Arctic sea ice the death spiral -- The accelerating effects of Arctic feedbacks -- Arctic methane, a catastrophe in the making -- Strange weather -- The secret life of chimneys -- What's happening to the Antarctic? -- The state of the planet -- A call to arms

Atmosphere, Ocean and Climate Dynamics

An Introductory Text

Elsevier For advanced undergraduate and beginning graduate students in atmospheric, oceanic, and climate science, *Atmosphere, Ocean and Climate Dynamics* is an introductory textbook on the circulations of the atmosphere and ocean and their interaction, with an emphasis on global scales. It will give students a good grasp of what the atmosphere and oceans look like on the large-scale and why they look that way. The role of the oceans in climate and paleoclimate is also discussed. The combination of observations, theory and accompanying illustrative laboratory experiments sets this text apart by making it accessible to students with no prior training in meteorology or oceanography. * Written at a mathematical level that is appealing for undergraduates and beginning graduate students * Provides a useful educational tool through a combination of observations and laboratory demonstrations which can be viewed over the web * Contains instructions on how to reproduce the simple but informative laboratory experiments * Includes copious problems (with sample answers) to help students learn the material.

Cluster Computing

Nova Science Pub Incorporated **Cluster Computing**

Parallel Processing and Parallel Algorithms

Theory and Computation

Springer Science & Business Media **Motivation** It is now possible to build powerful single-processor and multiprocessor systems and use them efficiently for data processing, which has seen an explosive expansion in many areas of computer science and engineering. One approach to meeting the performance requirements of the applications has been to utilize the most powerful single-processor system that is available. When such a system does not provide the performance requirements, pipelined and parallel processing structures can be employed. The concept of parallel processing is a departure from sequential processing. In sequential computation one processor is involved and performs one operation at a time. On the other hand, in parallel computation several processors cooperate to solve a problem, which reduces computing time because several operations can be carried out simultaneously. Using several processors that work together on a given computation illustrates a new paradigm in computer problem solving which is completely different from sequential processing. From the practical point of view, this provides sufficient justification to investigate the concept of parallel processing and related issues, such as parallel algorithms. Parallel processing involves utilizing several factors, such as parallel architectures, parallel algorithms, parallel programming languages and performance analysis, which are strongly interrelated. In general, four steps are involved in performing a computational problem in parallel. The first step is to understand the nature of computations in the specific application domain.

New priorities for the 21st century

NOAA's strategic vision

Fundamentals of Wireless Sensor Networks

Theory and Practice

John Wiley & Sons In this book, the authors describe the fundamental concepts and practical aspects of wireless sensor networks. The book provides a comprehensive view to this rapidly evolving field, including its many novel applications, ranging from protecting civil infrastructure to pervasive health monitoring. Using detailed examples and illustrations, this book provides an inside track on the current state of the technology. The book is divided into three parts. In Part I, several node architectures, applications and operating systems are discussed. In Part II, the basic architectural frameworks, including the key building blocks required for constructing large-scale, energy-efficient sensor networks are presented. In Part III, the challenges and approaches pertaining to local and global management strategies are presented - this includes topics on power management, sensor node localization, time synchronization, and security. At the end of each chapter, the authors provide practical exercises to help students strengthen their grip on the subject. There are more than 200 exercises altogether. **Key Features:** Offers a comprehensive introduction to the theoretical and practical concepts pertaining to wireless sensor networks Explains the constraints and challenges of wireless sensor network design; and discusses the most promising solutions Provides an in-depth treatment of the most critical technologies for sensor network communications, power management, security, and programming Reviews the latest research results in sensor network design, and demonstrates how the individual components fit together to build complex sensing systems for a variety of application scenarios Includes an accompanying website containing solutions to exercises (http://www.wiley.com/go/dargie_fundamentals) This book serves as an introductory text to the field of wireless sensor networks at both graduate and advanced undergraduate level, but it will also appeal to researchers and practitioners wishing to learn about sensor network technologies and their application areas, including environmental monitoring, protection of civil infrastructure, health care, precision agriculture, traffic control, and homeland security.

Polish Migration to the UK in the 'New' European Union

After 2004

Routledge Since the 2004 enlargement of the European Union over half a million Polish migrants have registered to work in the United Kingdom, constituting one of the largest migration movements in contemporary Europe. Drawing on research undertaken across a wide range of disciplines - history, economics, sociology, anthropology, film studies and discourse analysis - and focusing on both the Polish and British aspects of this phenomenon - both emigration and immigration - this edited collection investigates what is actually new about this migration flow, what its causes and consequences are, and how these migrants' lives have changed by moving to the United Kingdom. As the first book to deal with Polish migration to the United Kingdom, *Polish Migration to the UK in the 'New' European Union* will appeal to scholars across a range of social sciences, whose work concerns migration and the migration process.

Keene on Chess

Cardoza Pub A complete step-by-step course which shows you how to play and deepen your understanding of chess.

Wireless Sensor Networks

Technology, Protocols, and Applications

John Wiley & Sons **Infrastructure for Homeland Security Environments** *Wireless Sensor Networks* helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application

topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks * Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.