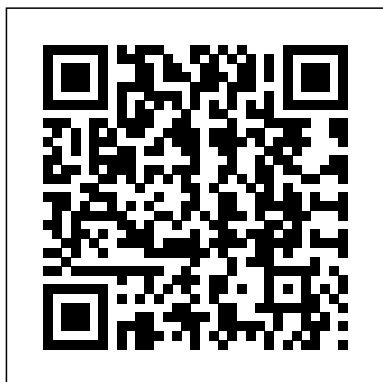

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Introduction to Information Systems Springer Science & Business Media

Connecting theory with practice, this systematic and rigorous introduction covers the fundamental principles, algorithms and applications of key mathematical models for high-dimensional data analysis. Comprehensive in its approach, it provides unified coverage of many different low-dimensional models and analytical techniques, including sparse and low-rank models, and both convex and non-convex formulations. Readers will learn

how to develop efficient and scalable algorithms for solving real-world problems, supported by numerous examples and exercises throughout, and how to use the computational tools learnt in several application contexts. Applications presented include scientific imaging, communication, face recognition, 3D vision, and deep networks for classification. With code available online, this is an ideal textbook for senior and graduate students in computer science, data science, and electrical engineering, as well as for those taking courses on sparsity, low-dimensional structures, and high-dimensional data. Foreword by Emmanuel Candès.

Computing and Combinatorics CRC Press

This book summarizes recent Chinese discussions about Internet finance—a new financial business type resulting from an innovative thinking under the new normal—in the light of the actual situation of China in transformation, especially the thirst of the grass-roots economy including medium-small and micro-sized enterprises as well as residents for financial services. The Internet finance is of great significance for optimizing and upgrading the industrial

structure, improving the demand structure and reshaping the economic growth mode in China. This book will interest scholars, journalists, and businesspeople.--

Cyberspace Mimic Defense CRC Press

This volume contains the papers, updated in some cases, presented at the first AISMC (Artificial Intelligence and Symbolic Mathematical Computations) conference, held in Karlsruhe, August 3-6, 1992. This was the first conference to be devoted to such a topic after a long period when SMC made no appearance in AI conferences, though it used to be welcome in the early days of AI. Some conferences were held recently on mathematics and AI, but none was directly comparable in scope to this conference. Because of the novelty of the domain, authors were given longer allocations of time than usual in which to present their work. As a result, extended and fruitful discussions followed each paper. The introductory chapter in this book, which was not presented during the conference, reflects in many ways the flavor of these discussions and aims to set out the framework for future activities in this domain of research. In addition to the introduction, the volume contains 20 papers.

Advances in Neural Networks -- ISSN 2010 DeVorss & Company

Microfluidics-based biochips combine electronics with biochemistry, providing access to new application areas in a wide variety of fields. Continued technological innovations are essential to assuring the future role of these chips in functional diversification in biotech, pharmaceuticals, and other industries.

Revolutionary guidance on design, optimization, and testing of low-cost, disposable biochips
Microfluidic Biochips: Design Automation and Optimization comprehensively covers the appropriate design tools and in-system automation methods that will help users adapt to new technology and progress in chip design and manufacturing. Based on results from several Duke University research projects on design automation for biochips, this book uses real-life bioassays as examples to lay out an automated design flow for creating microfluidic biochips. It also develops solutions to the unique problems associated with that process. Highlights the design of the protein crystallization chip to illustrate the benefits of automated design flow In addition to covering automated design, the authors provide a detailed methodology for the testing, use, and optimization of robust, cost-efficient, manufacturable digital microfluidic systems used in protein crystallization and other areas. The invaluable tools and practices presented here will help readers to: Address optimization problems related to layout, synthesis, droplet routing, and testing for digital microfluidic biochips Make routing-aware, architectural-level design choices and defect-tolerant physical design decisions simultaneously Achieve the optimization goal, which includes minimizing time-to-response, chip area, and test complexity Effectively deal with practical issues such as defects, fabrication cost, physical constraints, and application-driven design The authors present specialized pin-constrained design techniques for making biochips with a focus on cost

and disposability. They also discuss chip testing to ensure dependability, which is key to optimizing safety-critical applications such as point-of-care medical diagnostics, on-chip DNA analysis, automated drug discovery, air-quality monitoring, and food-safety testing. This book is an optimal reference for academic and industrial researchers in the areas of digital microfluidic biochips and electronic design automation.

Evolutionary Multi-Criterion Optimization CRC Press

This multivolume work covers all aspects of membrane science and technology - from basic phenomena to the most advanced applications and future perspectives. Modern membrane engineering is critical to the development of process-intensification strategies and to the stimulation of industrial growth. The work presents researchers and industrial managers with an indispensable tool toward achieving these aims. Covers membrane science theory and economics, as well as applications ranging from chemical purification and natural gas enrichment to potable water. Includes contributions and case studies from internationally recognized experts and from up-and-coming researchers working in this multi-billion dollar field. Takes a unique, multidisciplinary approach that stimulates research in hybrid technologies for current (and future) life-saving applications (artificial organs, drug delivery).

The Telecommunications Handbook Springer

This four-volume handbook gives a state-of-the-art overview of hybrid organic inorganic perovskites, both two dimensional (2D) and three dimensional (3D), from synthesis and characterization and simulation to optoelectronic devices (such as solar cells and light emitting diodes), spintronics devices and catalysis application. The editors, coming from academia and national laboratory, are known for their didactic skills as well as their technical expertise. Coordinating the efforts of 30 expert authors in 21 chapters, they construct the story of hybrid perovskite structural and optical properties, electronic and spintronic response, laser action, and catalysis from varied viewpoints: materials science, chemical engineering, and energy engineering. The four volumes are arranged according to the focus material properties. Volume 1 is focused on the material physical properties including structure, deposition characteristic and the structure of the electronic bands and excitons of these compounds. Volume 2 covers the hybrid perovskite optical properties including the ultrafast optical response, photoluminescence and laser action. Volume 3 contains the spin response of these compounds including application such as spin valves, photogalvanic effect, and magnetic response of light emitting diodes and solar cell devices. Finally, and highly relevant to tomorrow's energy challenges, volume 4 is focused on the physics and device properties of the most relevant applications of the hybrid perovskites, namely photovoltaic solar cells. The text contains many high-quality colorful illustrations and examples, as well as thousands of up-to-date references to peer-reviewed articles, reports and websites for further reading. This comprehensive and well-written handbook is a must-have reference for universities, research groups and companies working with the hybrid organic inorganic perovskites.

Digital Microfluidic Biochips John Wiley & Sons
Digital Microfluidic Biochips CRC Press
Hybrid Organic Inorganic Perovskites: Physical Properties
And Applications (In 4 Volumes) CRC Press
Offers information on past and future conferences of the
Empirical Studies of Programmers (ESP), provided by the
ESP Design Team at the University of Nebraska at
Lincoln. Includes indexes of papers and lists of
participants, as well as photographs. Links to related
sites.

Advances in Computing Science - ASIAN'98 Springer Nature
This book constitutes the refereed proceedings of the 10th
International Conference on Parallel Problem Solving from
Nature, PPSN 2008, held in Dortmund, Germany, in September
2008. The 114 revised full papers presented were carefully
reviewed and selected from 206 submissions. The conference
covers a wide range of topics, such as evolutionary
computation, quantum computation, molecular computation,
neural computation, artificial life, swarm intelligence, artificial
ant systems, artificial immune systems, self-organizing
systems, emergent behaviors, and applications to real-world
problems. The paper are organized in topical sections on
formal theory, new techniques, experimental analysis,
multiobjective optimization, hybrid methods, and applications.
Modeling, Analysis, and Applications in Metaheuristic
Computing: Advancements and Trends Digital Microfluidic
Biochips

The Process: A New Foundation in Art and Design is a
compendium of 13 experimental projects designed to
teach conceptual thinking and problem solving to art and
design students. The projects, created by Judith Wilde

and Richard Wilde, focus on developing formal excellence
and a strong sense of aesthetics, along with the ability to
generate new ideas. Each project is illustrated with
multiple visual solutions, provided to inspire creativity and
illustrate that there can be multiple solutions to a single
problem.

日本オペレーションズ リサーチ学会論文誌 Springer
Science & Business Media

This book constitutes the proceedings of the 24th
International Conference on Computing and
Combinatorics, COCOON 2018, held in Qing Dao,
China, in July 2018. The 62 papers presented in this
volume were carefully reviewed and selected from
120 submissions. They deal with the areas of
algorithms, theory of computation, computational
complexity, and combinatorics related to computing.
Evolutionary Learning: Advances in Theories and Algorithms
Cambridge University Press

"This book is a collection of the latest developments, models,
and applications within the transdisciplinary fields related to
metaheuristic computing, providing readers with insight into a
wide range of topics such as genetic algorithms, differential
evolution, and ant colony optimization"--Provided by publisher.
Parallel Problem Solving from Nature - PPSN X Chavanch
Press, LLC

This book constitutes the refereed proceedings of the 4th
Asian Computing Science Conference, ASIAN'98, held in
Manila, The Philippines, in December 1998. The 17
revised full papers presented were carefully reviewed and
selected from a total of 43 submissions. Also included are

a few invited contributions. Among the topics covered are automated deduction, proof theory, rewriting systems, program semantics, distributed processing, algorithms, and graph-theoretical aspects.

The Process Elsevier

A unified view of metaheuristics This book provides a complete background on metaheuristics and shows readers how to design and implement efficient algorithms to solve complex optimization problems across a diverse range of applications, from networking and bioinformatics to engineering design, routing, and scheduling. It presents the main design questions for all families of metaheuristics and clearly illustrates how to implement the algorithms under a software framework to reuse both the design and code. Throughout the book, the key search components of metaheuristics are considered as a toolbox for: Designing efficient metaheuristics (e.g. local search, tabu search, simulated annealing, evolutionary algorithms, particle swarm optimization, scatter search, ant colonies, bee colonies, artificial immune systems) for optimization problems Designing efficient metaheuristics for multi-objective optimization problems Designing hybrid, parallel, and distributed metaheuristics Implementing metaheuristics on sequential and parallel machines Using many case studies and treating design and implementation independently, this book gives

readers the skills necessary to solve large-scale optimization problems quickly and efficiently. It is a valuable reference for practicing engineers and researchers from diverse areas dealing with optimization or machine learning; and graduate students in computer science, operations research, control, engineering, business and management, and applied mathematics.

Metaheuristics World Scientific

During FY 2012 and 2013, a process was developed to convert the SHINE Target Solution (STS) of irradiated uranyl sulfate (140 g U/L) to uranyl nitrate. This process is necessary so that the uranium solution can be processed by the UREX (Uranium Extraction) separation process, which will remove impurities from the uranium so that it can be recycled.

The uranyl sulfate solution must contain

Handbook of Research on Modern Optimization Algorithms and Applications in Engineering and Economics Springer

Information Control Problems in Manufacturing 2006 contains the Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM'2006). This symposium took place in Saint Etienne, France, on May 17-19 2006. INCOM is a tri-annual event of symposia series organized by IFAC and it is promoted by the IFAC Technical Committee on Manufacturing Plant Control.

The purpose of the symposium INCOM'2006 was to offer a forum to present the state-of-the-art in international research and development work, with special emphasis on the applications of optimisation methods, automation and IT technologies in the control of manufacturing plants and the entire supply chain within the enterprise. The symposium stressed the scientific challenges and issues, covering the whole product and processes life cycle, from the design through the manufacturing and maintenance, to the distribution and service. INCOM'2006 Technical Program also included a special event on Innovative Engineering Techniques in Healthcare Delivery. The application of engineering and IT methods in medicine is a rapidly growing field with many opportunities for innovation. The Proceedings are composed of 3 volumes: Volume 1 - Information Systems, Control & Interoperability Volume 2 - Industrial Engineering Volume 3 - Operational Research * 3-volume set, containing 362 carefully reviewed and selected papers * presenting the state-of-the-art in international research and development in Information Control problems in Manufacturing Swarm Intelligence Cambridge University Press

A panel of renowned experts from around the world contributed to this authoritative handbook that covers the essential aspects of this most dynamic field of communications and networking activity. Edited by Dr. Kornel Terplan and Patricia Morreale - well known authorities in

telecommunications- this important new handbook provides basic principles and definitions, details the tremendous advances in technology, outlines implementation techniques, and discusses the outstanding issues and key challenges faced by communications and networking specialists. The telecommunications topics addressed include:

- o Basic principles
- o Services on broadband networks
- o Signal processing and coding schemes
- o Mobile and wireless networks
- o DSL technologies
- o Digital video and multimedia
- o Quality of service
- o Regulation
- o Standards
- o Emerging technologies

Exhaustive in scope and packed with diagrams, tables, and illustrations, The Telecommunications Handbook is an indispensable, detailed reference for engineers, analysts, managers, and students involved in a wide range of telecommunication and networking activities.

Indirect and Direct Action of Heavy-particle Radiation on Glycine in Aqueous Solution Springer

This book presents a set of 14 papers accompanying the lectures of leading researchers given at the 8th edition of the International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2008, held in Bertinoro, Italy in June 2008. SFM 2008 was devoted to formal techniques for computational systems biology and covered several aspects of the field, including computational models, calculi and logics for biological systems, and verification and simulation methods. The first part of this volume comprises nine papers based on regular lectures, the second part of this volume comprises five papers based on talks given by people involved in the Italian BISCA research project on Bio-Inspired Systems and Calculi with Applications.

Empirical Studies of Programmers IGI Global

This book constitutes the refereed proceedings of the 7th International Conference on Evolutionary Multi-Criterion Optimization, EMO 2013 held in Sheffield, UK, in March 2013. The 57 revised full papers presented were carefully reviewed and selected from 98 submissions. The papers are grouped in topical sections on plenary talks; new horizons; indicator-based methods; aspects of algorithm design; pareto-based methods; hybrid MCDA; decomposition-based methods; classical MCDA; exploratory problem analysis; product and process applications; aerospace and automotive applications; further real-world applications; and under-explored challenges.

Information Control Problems in Manufacturing 2006 Springer

Planetary blockades. Rampant viral outbreaks. Can two ex-lovers forge a path through the stars to save their world? Independent trader Gavril Danilovich is slowly slipping into madness. Stuck in quarantine on a dying planet, his raw talent to feel everyone's emotions has him wrestling with waves of terror and rage. So when the woman who holds his heart offers an opportunity for isolation by repairing a mothballed freighter, he jumps at the chance. Anitra Helden can't outrun her past. Hiring the only man she trusts to fix up a spaceship destined to fill a new settlement with supplies, she fears for the population's safety when thieves steal valuable goods. And after she's invited to join a covert plan to protect all colonists, she's terrified one misspoken word could burn all her bridges. Racing the clock to prepare the vessel in time, Gavril struggles to master his painful empathy or face being trapped on the ground forever. And with the stranded citizens desperate for

Anitra's help, she's confronted with the decision to expose her dangerous history... or lose everything she's built. Can they escape the stricken planet before they're doomed by intergalactic corruption? Last Ship Off Polaris-G is a fast-paced prequel to the Central Galactic Concordance space opera romance series. If you like heated attraction, seeds of a rebellion, and psychic gifts, then you'll love Carol Van Natta's action-packed story. Buy Last Ship Off Polaris-G to race to freedom today!