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High-Dimensional Data Analysis with Low-Dimensional Models

Digital Microfluidic Biochips
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!

Evolutionary Multi-Criterion Optimization

Newnes
This book and its sister volume collect refereed papers presented at the 7th International Symposium on Neural Networks (ISNN 2010), held in Shanghai, China, June 6-9, 2010. Building on the success of the previous six successive ISNN symposiums, ISNN has become a well-established series of popular and high-quality conferences on neural computation and its applications. ISNN aims at

providing a platform for scientists, researchers, engineers, as well as students to gather together to present and discuss the latest progresses in neural networks, and applications in diverse areas. Nowadays, the field of neural networks has been fostered far beyond the traditional artificial neural networks. This year, ISNN 2010 received 591 submissions from more than 40 countries and regions. Based on rigorous reviews, 170 papers were selected for publication in the proceedings. The papers collected in the proceedings cover a broad spectrum of fields, ranging from neurophysiological experiments, neural modeling to extensions and applications of neural networks. We have organized the papers into two volumes based on their topics. The first volume, entitled "Advances in Neural Networks- ISNN 2010, Part 1," covers the following topics: neurophysiological foundation, theory and models, learning and inference, neurodynamics. The second volume entitled "Advance in Neural Networks ISNN 2010, Part 2" covers the following five topics: SVM and kernel methods, vision and image, data mining and text analysis, BCI and brain imaging, and applications. NetCentric and Client/Server Computing CRC Press 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.

Vapor Pressure of Zirconium Tetrachloride by Molecular Effusion IGI Global

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.

???????????????????? Chavanch Press, LLC

Many advances have recently been made in metaheuristic methods, from theory to applications. The editors, both leading experts in this field, have assembled a team of researchers to contribute 21 chapters organized into parts on simulated annealing, tabu search, ant colony algorithms, general purpose studies of evolutionary algorithms, applications of evolutionary algorithms, and metaheuristics. *Modeling, Analysis, and Applications in Metaheuristic Computing: Advancements and Trends* Springer 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

Advances in Metaheuristics for Hard Optimization Springer

This book constitutes the refereed proceedings of the 11th International Conference on Evolutionary Multi-Criterion Optimization, EMO 2021 held in Shenzhen, China, in March 2021. The 47 full papers and 14 short papers were carefully reviewed and selected from 120 submissions. The papers are divided into the following topical sections: theory; algorithms; dynamic multi-objective optimization; constrained multi-objective optimization; multi-modal optimization; many-objective optimization; performance evaluations and empirical studies; EMO and machine learning; surrogate modeling and expensive

optimization; MCDM and interactive EMO; and applications.

FY-15 Progress Report on Cleanup of Irradiated SHINE Target Solutions Containing 140g-U/L Uranyl Sulfate

Cambridge University Press

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.

Evolutionary Multi-Criterion Optimization Springer Science & Business Media

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) *Computing and Combinatorics* Springer Science & Business Media

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.

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

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.

Information Control Problems in Manufacturing 2006 CRC Press

From Federal Express's package tracking Website, to Amazon.com, netcentric computing has been evolving, slowly-but-surely, one solution at a time, since the early 1990s. Over the past year or so, the trickle has grown into a torrent of netcentric innovations of wider and wider scope,

developed in companies around the globe. Now, a new enterprise computing paradigm has sprung into being. Until now, there has been no comprehensive netcentric model, clearly defined netcentric system architecture, or established set of guiding principles to help you gear up for this next stage in the evolution of enterprise computing. written by the experts at Andersen Consulting, *Netcentric and Client/Server Computing: A Practical Guide*, offers you this and more. Of course, a book can never take the place of experts who wrote it, but this revised, updated, and expanded edition of Andersen Consulting's noted guide is an important first step in acquiring the knowledge and skills you need to bring netcentric capabilities into your organization. You'll learn from 13 acknowledged world experts what netcentric computing is, how it works, and how you can use it to provide your organization with an unstoppable competitive edge. Based upon their experiences with mission-critical netcentric implementations at 100 of the most successful business organizations

on the planet, these experts explain how netcentric computing can help you enable new business capabilities. Using dozens of fascinating case examples, they show you how to seamlessly integrate computing, communications, and knowledge resources in order to forge solid links among your company's employees, units, customers, suppliers, and partners, regardless of time, location, device, or content. And, they provide priceless advice and guidance on how to exploit the endless array of possibilities provided by netcentric computing to develop exciting new customer services, identify new markets, cut costs, engineer internal processes for improved business performance, and more. *Netcentric and Client/Server Computing* is divided into four, self-contained sections for ease of reference. Section I introduces you to basic netcentric principles and concepts, provides an overview of state-of-the-art in netcentric computing models, and develops a solid business case for netcentric computing. Section II acquaints

you with the various technologies involved and describes a comprehensive netcentric architecture. Section III is devoted to crucial analysis, design, and implementation issues, including design specifics for architectures, applications, and networks; rollout strategies; and ongoing management of distributed operations. Section IV explores emerging technologies and their likely impact on the future of netcentric computing.

Parallel Problem Solving from Nature - PPSN X IGI Global

The problem of exchanging data between different databases with different schemas is an area of immense importance. Consequently data exchange has been one of the most active research topics in databases over the past decade. Foundational questions related to data exchange largely revolve around three key problems: how to build target solutions; how to answer

queries over target solutions; and how to manipulate schema mappings themselves? The last question is also known under the name 'metadata management', since mappings represent metadata, rather than data in the database. In this book the authors summarize the key developments of a decade of research. Part I introduces the problem of data exchange via examples, both relational and XML; Part II deals with exchanging relational data; Part III focuses on exchanging XML data; and Part IV covers metadata management.

Tabu Search Springer Science & Business Media

An integrated resource for greater happiness, *Rock & Water* will keep you moving peacefully through the unpredictable ups and downs of life. Just as a stream

peacefully wanders through the natural world, over, around, or between rocks, *Rock and Water* provides skills that can help you navigate through the obstacles of life. Author Scott Cooper introduces 18 basic skills for enhancing and sustaining happiness that will uphold and carry inner peace and happiness from one day to the next -- skills that are based on Scott Cooper's research in the fields of cognitive psychology and mindfulness/acceptance. Cognitive psychology is grounded in the theory that our happiness is strongly influenced by our thinking. It's not so much a situation that brings unhappiness, but rather our perception of a situation. Mindfulness/acceptance practice is grounded in applying more nonreactive

acceptance to daily living; particularly when it comes to daily dilemmas that we can't control. In this new book, *Rock and Water* maintains the strong point of view that happiness is not enhanced by more talk about happiness, but by applying these conscious -hands-on- techniques that help us to cope with the inner sources of unhappiness---- this is the core of what cognitive and acceptance-based skills are all about.

Proceedings Laurence King Publishing

These proceedings consist of 30 selected research papers based on results presented at the 10th Balkan Conference & 1st International Symposium on Operational Research (BALCOR 2011) held in Thessaloniki, Greece, September 22-24, 2011. BALCOR is an established biennial conference attended by a large number of faculty,

researchers and students from the Balkan countries but also from other European and Mediterranean countries as well. Over the past decade, the BALCOR conference has facilitated the exchange of scientific and technical information on the subject of Operations Research and related fields such as Mathematical Programming, Game Theory, Multiple Criteria Decision Analysis, Information Systems, Data Mining and more, in order to promote international scientific cooperation. The carefully selected and refereed papers present important recent developments and modern applications and will serve as excellent reference for students, researchers and practitioners in these disciplines. ?

The Telecommunications Handbook Springer Science & Business Media

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.

Rock and Water Elsevier
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.--

Enterprise System Architectures
Springer

Introduction to Information Systems, 9th Edition delivers an essential resource for undergraduate business majors seeking ways to harness information technology systems to succeed in their current or future jobs. The book assists readers in developing a foundational understanding of information systems and technology and apply it to common business problems. This

International Adaptation covers applications of the latest technologies with the addition of new cases from Europe, Middle East, Africa, Australia, and Asia-Pacific countries. It focuses on global business environment for students to understand the norms of using technology while operating on online platforms for exploring new avenues in different geographical locations. The book includes real business scenarios of how latest technologies such as Big Data, Cloud Computing, Blockchain, and IoT are perceived and adopted across countries. New cases highlight key technology issues faced by organizations such as designing and implementing IT security policies, dealing with ethical dilemma of securing customer data, moving IT infrastructure to cloud, and identifying how AI can be used to improve the efficiency of business operations.

Springer

This book constitutes the proceedings of the 8th International Conference on Swarm Intelligence, held in Brussels, Belgium, in September 2012. This volume contains 15 full papers, 20 short papers, and 7 extended abstracts carefully selected out of 81 submissions. The papers cover various topics of swarm intelligence.

Empirical Studies of

Programmers John Wiley & Sons
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.