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*Information Control Problems in Manufacturing*  
2006 Springer Nature

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!

*Indirect and Direct Action of Heavy-particle Radiation on Glycine in Aqueous Solution* Cambridge University 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).

*Foundations of Data Exchange* Springer Science & Business Media

Several books on the market cover combinatorial techniques, but they offer just a limited perspective of the field, focusing on selected aspects without examining all approaches and integrated technologies. *Combinatorial Chemistry and Technologies: Methods and Applications* answers the demand for a complete overview of the field, covering all of the

*Tabu Search* Springer

This book discusses uncertain threats, which are caused by unknown attacks based on unknown vulnerabilities or backdoors in the information system or control devices and software/hardware. Generalized robustness control architecture and the mimic defense mechanisms are presented in this book, which could change "the easy-to-attack and difficult-to-defend game" in cyberspace. The endogenous uncertain effects from the targets of the software/hardware based on this architecture can produce magic "mimic defense fog", and suppress in a normalized mode random disturbances caused by physical or logic elements, as well as effects of non-probability disturbances brought by uncertain security threats. Although progress has been made in the current security defense theories in cyberspace and various types of security technologies have come into being, the effectiveness of such theories and technologies often depends on the scale of the prior knowledge of the attackers, on the part of the defender and on the acquired real-time and accuracy regarding the attackers' behavior features and other information. Hence, there lacks an efficient active defense means to deal with uncertain security threats from the unknown. Even if the bottom-line defense technologies such as encrypted verification are adopted, the security of hardware/software products cannot be quantitatively designed, verified or measured. Due to the "loose coupling" relationship and border defense modes between the defender and the protected target, there exist insurmountable theoretical and technological challenges in the protection of the defender and the target against the utilization of internal vulnerabilities or backdoors, as well as in dealing with attack scenarios based on backdoor-activated collaboration from both inside and outside, no matter how augmented or accumulated protective measures are adopted. Therefore, it is urgent to jump out of the stereotyped thinking based on conventional defense theories and technologies, find new theories and methods to effectively reduce the utilization of vulnerabilities and backdoors of the targets without relying on the priori knowledge and feature information, and to develop new technological means to offset uncertain threats based on unknown vulnerabilities and backdoors from an innovative perspective. This book provides a solution both in theory and engineering implementation to the difficult problem of how to avoid the uncontrollability of product security caused by globalized marketing, COTS and non-trustworthy software/hardware sources. It has been proved that this revolutionary enabling technology has endowed software/hardware products in IT/ICT/CPS with endogenous security

functions and has overturned the attack theories and methods based on hardware/software design defects or resident malicious codes. This book is designed for educators, theoretical and technological researchers in cyber security and autonomous control and for business technicians who are engaged in the research on developing a new generation of software/hardware products by using endogenous security enabling technologies and for other product users. Postgraduates in IT/ICT/CPS/ICS will discover that (as long as the law of "structure determines the nature and architecture determines the security is properly used), the problem of software/hardware design defects or malicious code embedding will become the swelling of Achilles in the process of informationization and will no longer haunt Pandora's box in cyberspace. Security and opening-up, advanced progressiveness and controllability seem to be contradictory, but there can be theoretically and technologically unified solutions to the problem.

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

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.

Digital Microfluidic Biochips DeVorss & Company

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.

Evolutionary Multi-Criterion Optimization 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.

Parallel Problem Solving from Nature - PPSN X Springer

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.

Metaheuristics Springer

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. Rock and Water Springer Science & Business Media

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.

Swarm Intelligence John Wiley & Sons

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.

Plant-Scale Column Designs for SHINE Target Solutions Intellect Books

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.

Comprehensive Membrane Science and Engineering John Wiley & Sons

The idea for this workshop originated when I came across and read Martin Zelkowitz's book on Requirements for Software Engineering Environments (the proceedings of a small workshop held at the University of Maryland in 1986).

Although stimulated by the book I was also disappointed in that it didn't adequately address two important questions - "Whose requirements are these?" and "Will the environment which meets all these requirements be usable by software engineers?". And thus was the decision made to organise this workshop which would explicitly address these two questions. As time went by setting things up, it became clear that our workshop would happen more than five years after the Maryland workshop and thus, at the same time as addressing the two questions above, this workshop would attempt to update the Zelkowitz approach. Hence the workshop acquired two halves, one dominated by discussion of what we already know about usability problems in software engineering and the other by discussion of existing solutions (technical and otherwise) to these problems. This scheme also provided a good format for bringing together those in the HCI community concerned with the human factors of software engineering and those building tools to solve acknowledged, but rarely understood problems.

**Modeling, Analysis, and Applications in Metaheuristic Computing: Advancements and Trends** Springer Science & Business Media

Briefly, the methods of determining low vapor pressures have been reviewed. Emphasis has been placed on molecular effusion, including a theoretical discussion and the subsequent application of molecular beams to the determination of vapor pressure. The problems met in the preparation, purification and handling of anhydrous zirconium tetrachloride have been discussed. Vapor pressure measurements on zirconium tetrachloride have been made over a temperature range of fifty degrees, 70 deg C. to 120 deg C. , and the mean molar heat of sublimation for this temperature range has been calculated. The value of 20.3 kcal per mole obtained is not unreasonable in view of the fact that values for the same quantity determined by other investigators in the temperature range of 239 deg C. to 346 deg C. is reported to be 24.4 kcal. per mole.

**Combinatorial Chemistry and Technologies** Springer Science & Business Media

Modern optimization approaches have attracted many research scientists, decision makers and practicing researchers in recent years as powerful intelligent computational techniques for solving several complex real-world problems. The Handbook of Research on Modern Optimization Algorithms and Applications in Engineering and Economics highlights the latest research innovations and applications of algorithms designed for optimization applications within the fields of engineering, IT, and economics. Focusing on a variety of methods and systems as well as practical examples, this book is a significant resource for graduate-level students, decision makers, and researchers in both public and private sectors who are seeking research-based methods for modeling uncertain real-world problems. .

**Computing and Combinatorics** Springer Nature

Many machine learning tasks involve solving complex optimization problems, such as working on non-differentiable, non-continuous, and non-unique objective functions; in some cases it can prove difficult to even define an explicit objective function. Evolutionary learning applies evolutionary algorithms to address optimization problems in machine learning, and has yielded encouraging outcomes in many applications. However, due to the heuristic nature of evolutionary optimization, most outcomes to date have been empirical and lack theoretical support. This shortcoming has kept evolutionary learning from being well received in the machine learning community, which favors solid theoretical approaches. Recently there have been considerable efforts to address this issue. This book presents a range of those efforts, divided into four parts. Part I briefly introduces readers to evolutionary learning and provides some preliminaries, while Part II presents general theoretical tools for the analysis of running time and approximation performance in evolutionary algorithms. Based on these general tools, Part III presents a number of theoretical findings on major factors in evolutionary optimization, such as recombination, representation, inaccurate fitness evaluation, and population. In closing, Part IV addresses the development of evolutionary learning algorithms with provable theoretical guarantees for several representative tasks, in which evolutionary learning offers excellent performance.

**Cyberspace Mimic Defense** Springer

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.--

**Advances in Computing Science - ASIAN'98** Newnes

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.

**Introduction to Information Systems** IGI Global

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.

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

**Digital Microfluidic Biochips** CRC Press