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**Adaptive and Multilevel Metaheuristics** Handbook for Developing Watershed Plans to Restore and Protect Our WatersSpringer Handbook of Computational Intelligence  
Developing countries lose billions each year through bribery, misappropriation of funds, and other corrupt practices. Much of the proceeds of this corruption find 'safe haven' in the world's financial centers. These criminal flows are a drain on social services and economic development programs, contributing to the impoverishment of the world's poorest countries. Many developing countries have already sought to recover stolen assets. A number of successful high-profile cases with creative international cooperation has demonstrated that asset recovery is possible. However, it is highly complex, involving coordination and collaboration with domestic agencies and ministries in multiple jurisdictions, as well as the capacity to trace and secure assets and pursue various legal options—whether criminal confiscation, non-conviction based confiscation, civil actions, or other alternatives. This process can be overwhelming for even the most experienced practitioners. It is exceptionally difficult for those working in the context of failed states, widespread corruption, or limited resources. With this in mind, the Stolen Asset Recovery (StAR) Initiative has developed and updated this Asset Recovery Handbook: A Guide for Practitioners to assist those grappling with the strategic, organizational, investigative, and legal challenges of recovering stolen assets. A practitioner-led project, the Handbook provides common approaches to recovering stolen assets located in foreign jurisdictions, identifies the challenges that practitioners are likely to encounter, and introduces good practices. It includes examples of tools that can be used by practitioners, such as sample intelligence reports, applications for court orders, and mutual legal assistance requests. StAR—the Stolen Asset Recovery Initiative—is a partnership between the World Bank Group and the United Nations Office on Drugs and Crime that supports international efforts to end safe havens for corrupt funds. StAR works with developing countries and financial centers to prevent the laundering of the proceeds of corruption and to facilitate more systematic and timely return of stolen assets.

**What You Need to Know About Cannabis** Routledge

This textbook provides a comprehensive introduction to nature-inspired metaheuristic methods for search and optimization, including the latest trends in evolutionary algorithms and other forms of natural computing. Over 100 different types of these methods are discussed in detail. The authors emphasize non-standard optimization problems and utilize a natural approach to the topic, moving from basic notions to more complex ones. An introductory chapter covers the necessary biological and mathematical backgrounds for understanding the main material. Subsequent chapters then explore almost all of the major metaheuristics for search and optimization created based on natural phenomena, including simulated annealing, recurrent neural networks, genetic algorithms and genetic programming, differential evolution, memetic algorithms, particle swarm optimization, artificial immune systems, ant colony optimization, tabu search and scatter search, bee and bacteria foraging algorithms, harmony search, biomolecular computing, quantum computing, and many others. General topics on dynamic, multimodal, constrained, and multiobjective optimizations are also described. Each chapter includes detailed flowcharts that illustrate specific algorithms and exercises that reinforce important topics. Introduced in the appendix are some benchmarks for the evaluation of metaheuristics. Search and Optimization by Metaheuristics is intended primarily as a textbook for graduate and advanced undergraduate students specializing in engineering and computer science. It will also serve as a valuable resource for scientists and researchers working in these areas, as well as those who are interested in search and optimization methods.

**Test Prep and Practice Test Questions for the American Chemical Society General Chemistry Exam [Includes Detailed Answer Explanations]** Springer

This text explains and synthesizes the functioning and relationships of numerous Defense, Joint, and Army organizations, systems, and processes involved in the development and sustainment of trained and ready forces for the Combatant Commanders. It is designed to be used by the faculty and students at the U.S. Army War College (as well as other training and educational institutions) as they improve their knowledge and understanding of "How the Army Runs." We are proud of the value that senior commanders and staffs place in this text and are pleased to continue to provide this reference.

**A Field Guide to Genetic Programming** Jessica Kingsley Publishers

This text explains and synthesizes the functioning and relationships of numerous Defense, Joint, and Army organizations, systems, and processes involved in the development and sustainment of trained and ready forces for the Combatant Commanders. It is designed to be used by the faculty and students at the U.S. Army War College (as well as other training and educational institutions) as they improve their knowledge and understanding

of "How the Army Runs." We are proud of the value that senior commanders and staffs place in this text and are pleased to continue to provide this reference.

Proceedings of 6th International Conference on Medical Informatics & Telemedicine 2018 IGI Global

One of the keystones in practical metaheuristic problem-solving is the fact that tuning the optimization technique to the problem under consideration is crucial for achieving top performance. This tuning/customization is usually in the hands of the algorithm designer, and despite some methodological attempts, it largely remains a scientific art. Transferring a part of this customization effort to the algorithm itself—endowing it with smart mechanisms to self-adapt to the problem—has been a long pursued goal in the field of metaheuristics. These mechanisms can involve different aspects of the algorithm, such as for example, self-adjusting the parameters, self-adapting the functioning of internal components, evolving search strategies, etc. Recently, the idea of hyperheuristics, i.e., using a metaheuristic layer for adapting the search by selectively using different low-level heuristics, has also been gaining popularity. This volume presents recent advances in the area of adaptativeness in metaheuristic optimization, including up-to-date reviews of hyperheuristics and self-adaptation in evolutionary algorithms, as well as cutting edge works on adaptive, self-adaptive and multilevel metaheuristics, with application to both combinatorial and continuous optimization.

EPA Publications Bibliography Test Prep Books

Genetic programming (GP) is a systematic, domain-independent method for getting computers to solve problems automatically starting from a high-level statement of what needs to be done. Using ideas from natural evolution, GP starts from an ooze of random computer programs, and progressively refines them through processes of mutation and sexual recombination, until high-fitness solutions emerge. All this without the user having to know or specify the form or structure of solutions in advance. GP has generated a plethora of human-competitive results and applications, including novel scientific discoveries and patentable inventions. This unique overview of this exciting technique is written by three of the most active scientists in GP. See [www.gp-field-guide.org.uk](http://www.gp-field-guide.org.uk) for more information on the book.

Treatment Approaches for Alcohol and Drug Dependence Springer

The first edition of this book was based upon the recommendations of the Quality Assurance in the Treatment of Drug Dependence Project, and provided a step-by-step-guide for therapists working with clients with alcohol or other drug dependency or misuse. Since publication in 1995 it has become well known for its easy-to-read style and wealth of practical resource materials. However, the evidence in the field has moved forward in the last eight years, creating a need for an updated edition. Retaining the trademark easy-to-use, up-to-date style, the Second Edition offers new chapters on pharmacotherapies, case management, young people, and dual diagnosis. Other chapters have been updated to reflect the latest research findings and current practice, and the practice sheets and client handouts are made available online for downloading and customization by therapists.

Overfitting in Estimation of Distribution Algorithms (EDAS). Springer

This volume, in conjunction with the two volumes CICS 0002 and LNCS 4681, constitutes the refereed proceedings of the Third International Conference on Intelligent Computing held in Qingdao, China, in August 2007. The 139 full papers published here were carefully reviewed and selected from among 2,875 submissions. These papers offer important findings and insights into the field of intelligent computing.

Springer

Does cannabis really trigger schizophrenia? Is it true that cannabis is a non-addictive drug? What's the difference between hash and skunk? According to the UN's estimate, 160 million people around the world use cannabis; that's roughly 2.5 per cent of the world population.

Despite these figures, most people have a profound lack of knowledge about cannabis, made all the more dangerous by the changing nature of the drug itself, with much higher levels of potency being seen today than ever before. What You Need to Know About Cannabis offers accessible, accurate and objective information about the drug, allowing the reader draw their own conclusion. The book demystifies the latest research about the effects of cannabis, particularly in relation to mental health issues. Suitable for use as a resource for teachers, professionals, parents and young people who want to know the facts about cannabis, this book tells you what you need to know about this controversial drug.

From Algorithms to Applications Springer

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4th International Work-conference on the Interplay Between Natural and Artificial Computation, IWINAC 2011, La Palma, Canary Islands, Spain, May 30 - June 3, 2011. Proceedings CRC Press

Handbook for Developing Watershed Plans to Restore and Protect Our WatersSpringer Handbook of Computational IntelligenceSpringer

**Understanding the Facts** John Wiley & Sons

Identifies and describes specific government assistance opportunities such as loans, grants, counseling, and procurement contracts available under many agencies and programs.

Journal of Health & Medical Informatics : Volume 9 Routledge

The two volumes, LNCS 6686 resp. LNCS 6687, constitute the refereed proceedings of the 4th International Work-Conference on the Interplay between Natural and Artificial Computation, IWINAC 2011, held in La Palma, Canary Islands, Spain, in May/June 2011. The 108 revised full papers presented in LNCS 6686 resp. LNCS 6687 were carefully reviewed and selected from numerous submissions. The first part, LNCS 6686, entitled "Foundations on Natural and Artificial Computation", includes all the contributions mainly related to the methodological, conceptual, formal, and experimental developments in the fields of neurophysiology and cognitive science. The second part, LNCS 6687, entitled "New Challenges on Bioinspired Applications", contains the papers related to bioinspired programming strategies and all the contributions related to the computational solutions to engineering problems in different application domains, specially Health applications, including the CYTED "Artificial and Natural Computation for Health" (CANS) research network papers.

Handbook of Research on 5G Networks and Advancements in Computing, Electronics, and Electrical Engineering Routledge

I'm not usually a fan of edited volumes. Too often they are an incoherent hodgepodge of remnants, renegades, or rejects foisted upon an unsuspecting reading public under a misleading or fraudulent title. The volume Scalable Optimization via Probabilistic Modeling: From Algorithms to Applications is a worthy addition to your library because it succeeds on exactly those dimensions where so many edited volumes fail. For example, take the title, Scalable Optimization via Probabilistic Modeling: From Algorithms to Applications. You need not worry that you're going to pick up this book and find stray articles about anything else. This book focuses like a laser beam on one of the hottest topics in evolutionary computation over the last decade or so: estimation of distribution algorithms (EDAs). EDAs borrow evolutionary computation's population orientation and selectionism and throw out the genetics to give us a hybrid of substantial power, elegance, and extensibility. The article sequencing in most edited volumes is hard to understand, but from the get go the editors of this volume have assembled a set of articles sequenced in a logical fashion. The book moves from design to efficiency enhancement and then concludes with relevant applications. The emphasis on efficiency enhancement is particularly important, because the data-mining perspective implicit in EDAs opens up the world of optimization to new methods of data-guided adaptation that can further speed solutions through the construction and utilization of effective surrogates, hybrids, and parallel and temporal decompositions.

Guide to Asian Studies in Europe Springer Verlag

This book covers multi-band Galileo receivers (especially E1-E5 bands of Galileo) and addresses all receiver building blocks, from the antenna and front end, through details of the baseband receiver processing blocks, up to the navigation processing, including the Galileo message structure and Position, Velocity, Time (PVT) computation. Moreover, hybridization solutions with communications systems for improved localization are discussed and an open-source GNSS receiver platform (available for download) developed at Tampere University of Technology (TUT) is addressed in detail.

Proceedings of the International Summer School Held in La Rábida (Huelva) Spain, June 7-18, 1982 Routledge

July 5-6, 2018 Berlin, Germany Key Topics : Medical Informatics, Medical Informatics and Telemedicine, Medical Informatics and Biomedical Informatics, Medical Informatics and Health System Informatics, Medical Informatics and Telehealth, Medical Informatics and Clinical Informatics, Medical Informatics and Health Informatics, Medical Informatics and Electronic Medical Records, Medical Informatics and Nursing, Medical Informatics and Neuroinformatics, Behavioural Neurology, Medical Informatics and Public Health, Epidemiology, Medical Informatics and Healthcare Technologies, Medical Informatics and Biostatistics, Medical Informatics and Obstetrics, Medical Informatics and Health Information technology, Medical Informatics and Aging, eHealth, Medical Informatics and Research, Medical Informatics and Engineering, Medical Informatics and Services, Medical Informatics and Imaging Informatics, Medical Informatics and Informatic Management, Medical Informatics and Ethics,

Catalog of Federal Domestic Assistance World Bank Publications

The Springer Handbook for Computational Intelligence is the first book covering the basics, the state-of-the-art and important applications of the dynamic and rapidly expanding discipline of computational intelligence. This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology. Possible approaches include, for example, those being inspired by biology, living organisms and animate systems. Content is organized in seven parts: foundations; fuzzy logic; rough sets; evolutionary computation; neural networks; swarm intelligence and hybrid computational intelligence systems. Each Part is supervised by its own Part Editor(s) so that high-quality content as well as completeness are assured.

Technical assistance document (TAD) for precursor gas measurements in the NCore multipollutant monitoring network Lulu.com

Test Prep Books' ACS General Chemistry Study Guide: Test Prep and Practice Test Questions for the American Chemical Society General Chemistry Exam [Includes Detailed Answer Explanations] Made by Test Prep Books experts for test takers trying to achieve a great score on the ACS General Chemistry exam. This comprehensive study guide includes: Quick Overview Find out what's inside this guide! Test-Taking Strategies Learn the best tips to help overcome your exam! Introduction Get a thorough breakdown of what the test is and what's on it! Atomic Structure Electronic Structure Formula Calculations and the Mole Stoichiometry Solutions and Aqueous Reactions Heat and Enthalpy Structure and Bonding States of Matter Kinetics Equilibrium Acids and Bases Solubility Equilibria Electrochemistry Nuclear Chemistry Practice Questions Practice makes perfect! Detailed Answer Explanations Figure out where you went wrong and how to improve! Studying can be hard. We get it. That's why we created this guide with these great features and benefits: Comprehensive Review: Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the test. Practice Test Questions: We want to give you the best practice you can find. That's why the Test Prep Books practice questions are as close as you can get to the actual ACS General Chemistry test. Answer Explanations: Every single problem is followed by an answer explanation. We know it's frustrating to miss a question and not understand why. The answer explanations will help you learn from your mistakes. That way, you can avoid missing it again in the future. Test-Taking Strategies: A test taker has to understand the material that is being covered and be familiar with the latest test taking strategies. These strategies are necessary to properly use the time provided. They also help test takers complete the test without making any errors. Test Prep Books has provided the top test-taking tips. Customer Service: We love taking care of our test takers. We make sure that you interact with a real human being when you email your comments or concerns. Anyone planning to take this exam should take advantage of this Test Prep Books study guide. Purchase it today to receive access to: ACS General Chemistry review materials ACS General Chemistry exam Test-taking strategies

[Reliable Spectroradiometry](#) Springer Science & Business Media

This Guide is produced on behalf of the European Science Foundation Asia Committee. The Guide provides a comprehensive survey of researchers, institutes, university departments, museums, organisations, and newsletters in the field of Asian Studies in Europe. The 352 page Guide is published by the International Institute for Asian Studies in co-operation with Curzon. This is the first such guide ever published, and contains highly detailed current information including specialisation by subject and region for each entry. The Guide contains an alphabetical list of 5,000 European Asianists; 1,200 institutes and university departments; 300 museums, organisations, and newsletters.

[Health, Place and Lived-Experience](#) DIANE Publishing

The advent of the emerging fifth generation (5G) networks has changed the paradigm of how computing, electronics, and electrical (CEE) systems are interconnected. CEE devices and systems, with the help of the 5G technology, can now be seamlessly linked in a way that is rapidly turning the globe into a digital world. Smart cities and internet of things have come to stay but not without some challenges, which must be discussed. The Handbook of Research on 5G Networks and Advancements in Computing, Electronics, and Electrical Engineering focuses on current technological innovations as the world rapidly heads towards becoming a global smart city. It covers important topics such as power systems, electrical engineering, mobile communications, network, security, and more. This book examines vast types of technologies and their roles in society with a focus on how each works, the impacts it has, and the future for developing a global smart city.

This book is ideal for both industrial and academic researchers, scientists, engineers, educators, practitioners, developers, policymakers, scholars, and students interested in 5G technology and the future of engineering, computing, and technology in human society.