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Natural Computing Series

**Ivan Mistrik, Matthias Galster, Bruce R.
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Advances In Metaheuristics For Hard Optimization Natural Computing Series:

Advances in Metaheuristics for Hard Optimization Patrick Siarry, Zbigniew Michalewicz, 2007-12-06 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 *Massively Parallel Evolutionary Computation on GPGPUs* Shigeyoshi Tsutsui, Pierre Collet, 2013-12-05

Evolutionary algorithms EAs are metaheuristics that learn from natural collective behavior and are applied to solve optimization problems in domains such as scheduling engineering bioinformatics and finance Such applications demand acceptable solutions with high speed execution using finite computational resources Therefore there have been many attempts to develop platforms for running parallel EAs using multicore machines massively parallel cluster machines or grid computing environments Recent advances in general purpose computing on graphics processing units GPGPU have opened up this possibility for parallel EAs and this is the first book dedicated to this exciting development The three chapters of Part I are tutorials representing a comprehensive introduction to the approach explaining the characteristics of the hardware used and presenting a representative project to develop a platform for automatic parallelization of evolutionary computing EC on GPGPUs The 10 chapters in Part II focus on how to consider key EC approaches in the light of this advanced computational technique in particular addressing generic local search tabu search genetic algorithms differential evolution swarm optimization ant colony optimization systolic genetic search genetic programming and multiobjective optimization The 6 chapters in Part III present successful results from real world problems in data mining bioinformatics drug discovery crystallography artificial chemistries and sudoku Although the parallelism of EAs is suited to the single instruction multiple data SIMD based GPU there are many issues to be resolved in design and implementation and a key feature of the contributions is the practical engineering advice offered This book will be of value to researchers practitioners and graduate students in the areas of evolutionary computation and scientific computing **Nature-Inspired Algorithms for**

Optimisation Raymond Chiong, 2009-04-28 Nature Inspired Algorithms have been gaining much popularity in recent years due to the fact that many real world optimisation problems have become increasingly large complex and dynamic The size and complexity of the problems nowadays require the development of methods and solutions whose efficiency is measured by their ability to find acceptable results within a reasonable amount of time rather than an ability to guarantee the optimal solution This volume Nature Inspired Algorithms for Optimisation is a collection of the latest state of the art algorithms and important studies for tackling various kinds of optimisation problems It comprises 18 chapters including two introductory chapters which address the fundamental issues that have made optimisation problems difficult to solve and explain the rationale for seeking inspiration from nature The contributions stand out through their novelty and clarity of the algorithmic

descriptions and analyses and lead the way to interesting and varied new applications

Software Engineering for Variability Intensive Systems Ivan Mistrik, Matthias Galster, Bruce R. Maxim, 2019-01-15 This book addresses the challenges in the software engineering of variability intensive systems Variability intensive systems can support different usage scenarios by accommodating different and unforeseen features and qualities The book features academic and industrial contributions that discuss the challenges in developing maintaining and evolving systems cloud and mobile services for variability intensive software systems and the scalability requirements they imply The book explores software engineering approaches that can efficiently deal with variability intensive systems as well as applications and use cases benefiting from variability intensive systems

Advances in Metaheuristics Luca Di Gaspero, Andrea Schaerf, Thomas Stützle, 2013-03-01 Metaheuristics have been a very active research topic for more than two decades During this time many new metaheuristic strategies have been devised they have been experimentally tested and improved on challenging benchmark problems and they have proven to be important tools for tackling optimization tasks in a large number of practical applications In other words metaheuristics are nowadays established as one of the main search paradigms for tackling computationally hard problems Still there are a large number of research challenges in the area of metaheuristics These challenges range from more fundamental questions on theoretical properties and performance guarantees empirical algorithm analysis the effective configuration of metaheuristic algorithms approaches to combine metaheuristics with other algorithmic techniques towards extending the available techniques to tackle ever more challenging problems This edited volume grew out of the contributions presented at the ninth Metaheuristics International Conference that was held in Udine Italy 25-28 July 2011 The conference comprised 117 presentations of peer reviewed contributions and 3 invited talks and it has been attended by 169 delegates The chapters that are collected in this book exemplify contributions to several of the research directions outlined above

Balanced Automation Systems for Future Manufacturing Networks Ángel Ortiz Bas, Rubén Dario Franco, Pedro Gómez Gasquet, 2010-07-10 Manufacturing and operations management paradigms are evolving toward more open and resilient spaces where innovation is driven not only by ever changing customer needs but also by agile and fast reacting networked structures Flexibility adaptability and responsiveness are properties that the next generation of systems must have in order to successfully support such new emerging trends Customers are being attracted to be involved in Co innovation Networks as proved responsiveness and agility is expected from industry ecosystems Renewed production systems needs to be modeled engineered and deployed in order to achieve cost effective solutions BASYS conferences have been developed and organized as a forum in which to share visions and research findings for innovative sustainable and knowledge based products services and manufacturing models Thus the focus of BASYS is to discuss how human actors emergent technologies and even organizations are integrated in order to redefine the way in which the value creation process must be conceived and realized BASYS 2010 which was held in Valencia Spain proposed new approaches in

automation where synergies between people systems and organizations need to be fully exploited in order to create high added value products and services This book contains the selection of the papers which were accepted for presentation at the BASYS 2010 conference covering consolidated and emerging topics of the conference scope

Green IT: Technologies and Applications Jae H. Kim, Myung J. Lee, 2011-07-25 This book is the first of its kind in presenting comprehensive technical issues and solutions for rapidly growing Green IT It brings together in a single volume both green communications and green computing under the theme of Green IT and presents exciting research and developments taking place therein in a survey style Written by the subject matter experts consisting of an international team of recognized researchers and practitioners in the field Green IT Technologies and Applications will serve as an excellent source of information on the latest technical trend of Green IT for graduate undergraduate students researchers engineers and engineering managers in the IT Electrical Communications Computer Engineering Computer Science Information Science as well as interdisciplinary areas such as sustainability environment and energy The book comprises three parts Green Communications Green Computing and Smart Grid and Applications Part I Green Communications deals with energy efficient architectures and associated performance measures in wireless communications It covers energy issues in PHY MAC Routing Application layers and their solutions for a variety of networks Part II Green Computing deals with various energy issues in data centers computing clusters computing storage and associated optimization techniques Energy management strategies are presented to balance between energy efficiency and required qualities of services Part III Smart Grid and Applications presents an overview and research challenges for smart grid Applications include modeling of urban pollutant for transportation networks Wireless Sensor Network WSN architecture with long range radio and Green IT standards

Agent and Multi-Agent Systems: Technologies and Applications Gordan Jezic, Robert J. Howlett, Lakhmi C. Jain, 2015-06-09 Agents and multi agent systems are related to a modern software paradigm which has long been recognized as a promising technology for constructing autonomous complex and intelligent systems The topics covered in this volume include agent oriented software engineering agent co operation co ordination negotiation organization and communication distributed problem solving specification of agent communication languages agent privacy safety and security formalization of ontologies and conversational agents The volume highlights new trends and challenges in agent and multi agent research and includes 38 papers classified in the following specific topics learning paradigms agent based modeling and simulation business model innovation and disruptive technologies anthropic oriented computing serious games and business intelligence design and implementation of intelligent agents and multi agent systems digital economy and advances in networked virtual enterprises Published papers have been presented at the 9th KES Conference on Agent and Multi Agent Systems Technologies and Applications KES AMSTA 2015 held in Sorrento Italy Presented results should be of value to the research community working in the fields of artificial intelligence collective computational intelligence robotics dialogue systems and in particular agent and multi agent systems

technologies tools and applications Computational Intelligence and Intelligent Systems Zhenhua Li,Xiang Li,Yong Liu,Zhihua Cai,2012-10-06 This book constitutes the refereed proceedings of the 6th International Symposium on Intelligence Computation and Applications ISICA 2012 held in Wuhan China in October 2012 The 72 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on artificial life adaptive behavior agents and ant colony optimization combinatorial and numerical optimization communications and computer networks data mining evolutionary multi objective and dynamic optimization intelligent computation intelligent learning systems neural networks real world applications **Soft Computing in Chemical and Physical Sciences** Kanchan Sarkar,Sankar Prasad Bhattacharyya,2017-11-06 This book can be regarded as Soft computing for physicists and chemists self taught It prepares the readers with a solid background of soft computing and how to adapt soft computing techniques to problem solving in physical and chemical research Soft computing methods have been little explored by researchers in physical and chemical sciences primarily because of the absence of books that bridge the gap between the traditional computing paradigm pursued by researchers in science and the new soft computing paradigm that has emerged in computer science This book is the interface between these primary sources and researchers in physics and chemistry

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