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Arthur C. Sanderson

Adaptive Differential Evolution

A Robust Approach
to Multimodal
Problem Optimization

ADAPTATION, LEARNING,
AND
OPTIMIZATION Volume 1



Springer

Jingqiao Zhang

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Evolutionary Optimization Algorithms Altaf Q. H. Badar, 2021-10-29 This comprehensive reference text discusses evolutionary optimization techniques to find optimal solutions for single and multi objective problems The text presents each evolutionary optimization algorithm along with its history and other working equations It also discusses variants and hybrids of optimization techniques The text presents step by step solution to a problem and includes software s like MATLAB and Python for solving optimization problems It covers important optimization algorithms including single objective optimization multi objective optimization Heuristic optimization techniques shuffled frog leaping algorithm bacteria foraging algorithm and firefly algorithm Aimed at senior undergraduate and graduate students in the field of electrical engineering electronics engineering mechanical engineering and computer science and engineering this text Provides step by step solution for each evolutionary optimization algorithm Provides flowcharts and graphics for better understanding of optimization techniques Discusses popular optimization techniques include particle swarm optimization and genetic algorithm Presents every optimization technique along with the history and working equations Includes latest software like Python and MATLAB

Computational Intelligence in Expensive Optimization Problems Yoel Tenne, Chi-Keong Goh, 2010-03-10 In modern science and engineering laboratory experiments are replaced by high fidelity and computationally expensive simulations Using such simulations reduces costs and shortens development times but introduces new challenges to design optimization process Examples of such challenges include limited computational resource for simulation runs complicated response surface of the simulation inputs outputs and etc Under such difficulties classical optimization and analysis methods may perform poorly This motivates the application of computational intelligence methods such as evolutionary algorithms neural networks and fuzzy logic which often perform well in such settings This is the first book to introduce the emerging field of computational intelligence in expensive optimization problems Topics covered include dedicated implementations of evolutionary algorithms neural networks and fuzzy logic reduction of expensive evaluations modelling variable fidelity fitness inheritance frameworks for optimization model management complexity control model selection parallelization of algorithms implementation issues on clusters grids parallel machines incorporation of expert systems and human system interface single and multiobjective algorithms data mining and statistical analysis analysis of real world cases such as multidisciplinary design optimization The edited book provides both theoretical treatments and real world insights gained by experience all contributed by leading researchers in the respective fields As such it is a comprehensive reference for researchers practitioners and advanced level students interested in both the theory and practice of using computational intelligence for expensive optimization problems

Control Engineering and Information Systems Zhijing Liu, 2015-01-19 Control Engineering and Information Systems contains the papers presented at the 2014 International Conference on Control Engineering and Information Systems ICCEIS 2014 Yueyang Hunan China 20 22 June 2014 All major aspects of the theory

and applications of control engineering and information systems are addressed including Intelligent systems Teaching cases Pattern recognition Industry application Machine learning Systems science and systems engineering Data mining Optimization Business process management Evolution of public sector ICT IS economics IS security and privacy Personal data markets Wireless ad hoc and sensor networks Database and system security Application of spatial information system Other related areas Control Engineering and Information Systems provides a valuable source of information for scholars researchers and academics in control engineering and information systems

Exploitation of Linkage Learning in Evolutionary Algorithms Ying-ping Chen, 2010-04-16 One major branch of enhancing the performance of evolutionary algorithms is the exploitation of linkage learning This monograph aims to capture the recent progress of linkage learning by compiling a series of focused technical chapters to keep abreast of the developments and trends in the area of linkage In evolutionary algorithms linkage models the relation between decision variables with the genetic linkage observed in biological systems and linkage learning connects computational optimization methodologies and natural evolution mechanisms Exploitation of linkage learning can enable us to design better evolutionary algorithms as well as to potentially gain insight into biological systems Linkage learning has the potential to become one of the dominant aspects of evolutionary algorithms research in this area can potentially yield promising results in addressing the scalability issues

Group Search Optimization for Applications in Structural Design Lijuan Li, Feng Liu, 2011-05-27 Civil engineering structures such as buildings bridges stadiums and offshore structures play an import role in our daily life However constructing these structures requires lots of budget Thus how to cost efficiently design structures satisfying all required design constraints is an important factor to structural engineers Traditionally mathematical gradient based optimal techniques have been applied to the design of optimal structures While many practical engineering optimal problems are very complex and hard to solve by traditional method In the past few decades swarm intelligence algorithms which were inspired by the social behaviour of natural animals such as fish schooling and bird flocking were developed because they do not require conventional mathematical assumptions and thus possess better global search abilities than the traditional optimization algorithms and have attracted more and more attention These intelligent based algorithms are very suitable for continuous and discrete design variable problems such as ready made structural members and have been vigorously applied to various structural design problems and obtained good results This book gathers the authors latest research work related with particle swarm optimizer algorithm and group search optimizer algorithm as well as their application to structural optimal design The readers can understand the full spectrum of the algorithms and apply the algorithms to their own research problems

Unified Computational Intelligence for Complex Systems John Seiffertt, Donald C. Wunsch, 2010-07-15

Computational intelligence encompasses a wide variety of techniques that allow computation to learn to adapt and to seek That is they may be designed to learn information without explicit programming regarding the nature of the content to be

retained they may be imbued with the functionality to adapt to maintain their course within a complex and unpredictably changing environment and they may help us seek out truths about our own dynamics and lives through their inclusion in complex system modeling These capabilities place our ability to compute in a category apart from our ability to erect suspension bridges although both are products of technological advancement and reflect an increased understanding of our world In this book we show how to unify aspects of learning and adaptation within the computational intelligence framework While a number of algorithms exist that fall under the umbrella of computational intelligence with new ones added every year all of them focus on the capabilities of learning adapting and helping us seek So the term unified computational intelligence relates not to the individual algorithms but to the underlying goals driving them This book focuses on the computational intelligence areas of neural networks and dynamic programming showing how to unify aspects of these areas to create new more powerful computational intelligence architectures to apply to new problem domains Computational Intelligence in Optimization Yoel Tenne, Chi-Keong Goh, 2010-06-30 This collection of recent studies spans a range of computational intelligence applications emphasizing their application to challenging real world problems Covers Intelligent agent based algorithms Hybrid intelligent systems Machine learning and more **Embedded Automation in Human-Agent Environment** Jeff Tweedale, Lakhmi C. Jain, 2011-09-25 This research book proposes a general conceptual framework for the development of automation in human agents environments that will allow human agent teams to work effectively and efficiently We examine various schemes to implement artificial intelligence techniques in agents The text is directed to the scientists application engineers professors and students of all disciplines interested in the agency methodology and applications *Information Computing And Automation (In 3 Volumes) - Proceedings Of The International Conference* Jian Ping Li, Igor Bloshanskii, Lionel M Ni, S S Pandey, Simon X Yang, 2008-04-25 Wavelet analysis and its applications have become one of the fastest growing research areas in the past several years Wavelet theory has been employed in many fields and applications such as signal and image processing communication systems biomedical imaging radar air acoustics and endless other areas Active media technology is concerned with the development of autonomous computational or physical entities capable of perceiving reasoning adapting learning cooperating and delegating in a dynamic environment This book consists of carefully selected and received papers presented at the conference and is an attempt to capture the essence of the current state of the art in wavelet analysis and active media technology Invited papers included in this proceedings includes contributions from Prof P Zhang T D Bui and C Y Suen from Concordia University Canada Prof N A Strelkov and V L Dolnikov from Yaroslavl State University Russia Prof Chin Chen Chang and Ching Yun Chang from Taiwan Prof S S Pandey from R D University India and Prof I L Bloshanskii from Moscow State Regional University Russia *China's Strategic Seapower* John Wilson Lewis, Litai Xue, 1994 Using major new documentary sources the authors tell the story of why and how China built its nuclear submarine flotilla and the impact of that development on the nation's politics technology industry and

strategy Differential Evolution in Electromagnetics Anyong Qing, Ching Kwang Lee, 2010-05-28 Differential evolution has proven itself a very simple while very powerful stochastic global optimizer. It has been applied to solve problems in many scientific and engineering fields. This book focuses on applications of differential evolution in electromagnetics to showcase its achievement and capability in solving synthesis and design problems in electromagnetics. Topics covered in this book include: A comprehensive up to date literature survey on differential evolution; A systematic description of differential evolution; A topical review on applications of differential evolution in electromagnetics; Five new application examples. This book is ideal for electromagnetic researchers and people in differential evolution community. It is also a valuable reference book for researchers and students in the optimization or electrical and electronic engineering field. In addition, managers and engineers in relevant fields will find it a helpful introductory guide.

Handbook of Swarm Intelligence Bijaya Ketan Panigrahi, Yuhui Shi, Meng-Hiot Lim, 2011-02-04 From nature we observe swarming behavior in the form of ant colonies, bird flocking, animal herding, honey bees, swarming of bacteria, and many more. It is only in recent years that researchers have taken notice of such natural swarming systems as a culmination of some form of innate collective intelligence, albeit swarm intelligence. SI, a metaphor that inspires a myriad of computational problem solving techniques. In computational intelligence, swarm-like algorithms have been successfully applied to solve many real world problems in engineering and sciences. This handbook volume serves as a useful foundational as well as consolidatory state of art collection of articles in the field from various researchers around the globe. It has a rich collection of contributions pertaining to the theoretical and empirical study of single and multi objective variants of swarm intelligence based algorithms like particle swarm optimization (PSO), ant colony optimization (ACO), bacterial foraging optimization algorithm (BFOA), honey bee social foraging algorithms, and harmony search (HS). With chapters describing various applications of SI techniques in real world engineering problems, this handbook can be a valuable resource for researchers and practitioners, giving an in depth flavor of what SI is capable of achieving.

Reinforcement Learning Marco Wiering, Martijn van Otterlo, 2012-03-05 Reinforcement learning encompasses both a science of adaptive behavior of rational beings in uncertain environments and a computational methodology for finding optimal behaviors for challenging problems in control optimization and adaptive behavior of intelligent agents. As a field, reinforcement learning has progressed tremendously in the past decade. The main goal of this book is to present an up to date series of survey articles on the main contemporary sub fields of reinforcement learning. This includes surveys on partially observable environments, hierarchical task decompositions, relational knowledge representation, and predictive state representations. Furthermore, topics such as transfer, evolutionary methods, and continuous spaces in reinforcement learning are surveyed. In addition, several chapters review reinforcement learning methods in robotics, in games, and in computational neuroscience. In total, seventeen different subfields are presented by mostly young experts in those areas, and together they truly represent a state of the art of current reinforcement learning research. Marco Wiering works at the artificial intelligence

department of the University of Groningen in the Netherlands He has published extensively on various reinforcement learning topics Martijn van Otterlo works in the cognitive artificial intelligence group at the Radboud University Nijmegen in The Netherlands He has mainly focused on expressive knowledge representation in reinforcement learning settings

Advances in Computer Graphics Bin Sheng, Lei Bi, Jinman Kim, Nadia Magnenat-Thalmann, Daniel Thalmann, 2024-01-19 This 4 volume set of LNCS 14495 14498 constitutes the proceedings of the 40th Computer Graphics International Conference CGI 2023 held in Shanghai China August 28 September 1 2023 The 149 papers in this set were carefully reviewed and selected from 385 submissions They are organized in topical sections as follows Detection and Recognition Image Analysis and Processing Image Restoration and Enhancement Image Attention and Perception Reconstruction Rendering and Animation Synthesis and Generation Visual Analytics and Modeling Graphics and AR VR Medical Imaging and Robotics Theoretical Analysis Image Analysis and Visualization in Advanced Medical Imaging Technology Empowering Novel Geometric Algebra for Graphics and Engineering Agent-Based Evolutionary Search Ruhul A. Sarker, Tapabrata Ray, 2010-07-12 Agent based evolutionary search is an emerging paradigm in computational intelligence offering the potential to conceptualize and solve a variety of complex problems such as currency trading production planning disaster response management business process management etc There has been a significant growth in the number of publications related to the development and applications of agent based systems in recent years which has prompted special issues of journals and dedicated sessions in premier conferences The notion of an agent with its ability to sense learn and act autonomously lowers the development of a plethora of efficient algorithms to deal with complex problems This notion of an agent differs significantly from a restrictive definition of a solution in an evolutionary algorithm and opens up the possibility to model and capture emergent behavior of complex systems through a natural age oriented decomposition of the problem space While this flexibility of representation offered by agent based systems is widely acknowledged they need to be signed for specific purposes capturing the right level of details and description This edited volume is aimed to provide the readers with a brief background of agent based evolutionary search recent developments and studies dealing with various levels of information abstraction and applications of agent based evolutionary systems There are 12 peer reviewed chapters in this book authored by distinguished researchers who have shared their experience and findings spanning across a wide range of applications

Christians in the City of Shanghai Susangeline Y. Patrick, 2023-10-19 Examining the stories of diverse Christians in Shanghai this book uses the city as a model to highlight how a minority religion in a city has interacted with other religions as well as social cultural political and economic changes Susangeline Y Patrick illustrates how the history of Shanghai Christians sheds light on why and how Christians have accommodated social and political changes and gives valuable insights into multiculturalism globalization sinicization and ecclesiology The interreligious dialogues between Shanghai Christians and other traditions such as Buddhism Daoism Confucianism Islam and Judaism throughout history provide worthy

reflections on the roles of Christians in a multi religious space **Bio-Inspired Computing -- Theories and Applications** Maoguo Gong,Pan Linqiang,Song Tao,Ke Tang,Xingyi Zhang,2015-12-23 This book constitutes the proceedings of the 10th International Conference on Bio Inspired Computing Theories and Applications BIC TA 2015 held in Hefei China in September 2015 The 63 revised full papers presented were carefully reviewed and selected from 182 submissions The papers deal with the following main topics evolutionary computing neural computing DNA computing and membrane computing

Practical Applications of Evolutionary Computation to Financial Engineering Hitoshi Iba,Claus C. Aranha,2012-02-15 Practical Applications of Evolutionary Computation to Financial Engineering presents the state of the art techniques in Financial Engineering using recent results in Machine Learning and Evolutionary Computation This book bridges the gap between academics in computer science and traders and explains the basic ideas of the proposed systems and the financial problems in ways that can be understood by readers without previous knowledge on either of the fields To cement the ideas discussed in the book software packages are offered that implement the systems described within The book is structured so that each chapter can be read independently from the others Chapters 1 and 2 describe evolutionary computation The third chapter is an introduction to financial engineering problems for readers who are unfamiliar with this area The following chapters each deal in turn with a different problem in the financial engineering field describing each problem in detail and focusing on solutions based on evolutionary computation Finally the two appendixes describe software packages that implement the solutions discussed in this book including installation manuals and parameter explanations

Proceedings of ELM-2015 Volume 2 Jiuwen Cao,Kezhi Mao,Jonathan Wu,Amaury Lendasse,2016-01-02 This book contains some selected papers from the International Conference on Extreme Learning Machine 2015 which was held in Hangzhou China December 15 17 2015 This conference brought together researchers and engineers to share and exchange R D experience on both theoretical studies and practical applications of the Extreme Learning Machine ELM technique and brain learning This book covers theories algorithms ad applications of ELM It gives readers a glance of the most recent advances of ELM Shanghai Sacred Benoît Vermander,Liz Hingley,Liang Zhang,2018-04-15 Shanghai a dynamic world metropolis is home to a multitude of religions from Buddhism and Islam to Christianity and Baha ism to Hinduism and Daoism and many more In this city of 24 million inhabitants new religious groups and older faiths together claim and reclaim spiritual space Shanghai Sacred explores the spaces rituals and daily practices that make up the religious landscape of the city offering a new paradigm for the study of Chinese spirituality that reflects the global trends shaping Chinese culture and civil society Based on years of fieldwork incorporating both comparative and methodological perspectives Shanghai Sacred demonstrates how religions are lived constructed and thus inscribed into the social imaginary of the metropolis Evocative photographs by Liz Hingley enrich and interact with the narrative making the book an innovative contribution to religious visual ethnography

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