

Yoel Tenne
Chi-Keong Goh (Eds.)

ADAPTATION, LEARNING,
AND
OPTIMIZATION Volume 2

Computational Intelligence in Expensive Optimization Problems

 Springer

Computational Intelligence In Expensive Optimization Problems Adaptation Learning And Optimization

Qi-jun Zhang



Computational Intelligence In Expensive Optimization Problems Adaptation Learning And Optimization:

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

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

Simulation-driven Design Optimization And Modeling For Microwave Engineering Qi-jun Zhang, 2013-03-14

Computer aided full wave electromagnetic EM analysis has been used in microwave engineering for the past decade Initially its main application area was design verification Today EM simulation driven optimization and design closure become increasingly important due to the complexity of microwave structures and increasing demands for accuracy In many situations theoretical models of microwave structures can only be used to yield the initial designs that need to be further fine tuned to meet given performance requirements In addition EM based design is a must for a growing number of microwave devices such as ultra wideband UWB antennas dielectric resonator antennas and substrate integrated circuits For circuits like these no design ready theoretical models are available so design improvement can only be obtained through geometry adjustments based on repetitive time consuming simulations On the other hand various interactions between microwave devices and their environment such as feeding structures and housing must be taken into account and this is only possible through full wave EM analysis Electromagnetic simulations can be highly accurate but they tend to be computationally

expensive Therefore practical design optimization methods have to be computationally efficient so that the number of CPU intensive high fidelity EM simulations is reduced as much as possible during the design process For the same reasons techniques for creating fast yet accurate models of microwave structures become crucially important In this edited book the authors strive to review the state of the art simulation driven microwave design optimization and modeling A group of international experts specialized in various aspects of microwave computer aided design summarize and review a wide range of the latest developments and real world applications Topics include conventional and surrogate based design optimization techniques methods exploiting adjoint sensitivity simulation based tuning space mapping and several modeling methodologies such as artificial neural networks and kriging Applications and case studies include microwave filters antennas substrate integrated structures and various active components and circuits The book also contains a few introductory chapters highlighting the fundamentals of optimization and modeling gradient based and derivative free algorithms metaheuristics and surrogate based optimization techniques as well as finite difference and finite element methods a Bayesian Optimization Roman Garnett,2023-02-09 A comprehensive introduction to Bayesian optimization that starts from scratch and carefully develops all the key ideas along the way Markov Networks in Evolutionary Computation Siddhartha Shakya,Roberto Santana,2012-04-23 Markov networks and other probabilistic graphical models have recently received an upsurge in attention from Evolutionary computation community particularly in the area of Estimation of distribution algorithms EDAs EDAs have arisen as one of the most successful experiences in the application of machine learning methods in optimization mainly due to their efficiency to solve complex real world optimization problems and their suitability for theoretical analysis This book focuses on the different steps involved in the conception implementation and application of EDAs that use Markov networks and undirected models in general It can serve as a general introduction to EDAs but covers also an important current void in the study of these algorithms by explaining the specificities and benefits of modeling optimization problems by means of undirected probabilistic models All major developments to date in the progressive introduction of Markov networks based EDAs are reviewed in the book Hot current research trends and future perspectives in the enhancement and applicability of EDAs are also covered The contributions included in the book address topics as relevant as the application of probabilistic based fitness models the use of belief propagation algorithms in EDAs and the application of Markov network based EDAs to real world optimization problems The book should be of interest to researchers and practitioners from areas such as optimization evolutionary computation and machine learning Handbook On Computer Learning And Intelligence (In 2 Volumes) Plamen Parvanov Angelov,2022-06-29 The Handbook on Computer Learning and Intelligence is a second edition which aims to be a one stop shop for the various aspects of the broad research area of computer learning and intelligence This field of research evolved so much in the last five years that it necessitates this new edition of the earlier Handbook on Computational Intelligence This two volume handbook is divided into five parts

Volume 1 covers Explainable AI and Supervised Learning Volume 2 covers three parts Deep Learning Intelligent Control and Evolutionary Computation The chapters detail the theory methodology and applications of computer learning and intelligence and are authored by some of the leading experts in the respective areas The fifteen core chapters of the previous edition have been written and significantly refreshed by the same authors Parts of the handbook have evolved to keep pace with the latest developments in computational intelligence in the areas that span across Machine Learning and Artificial Intelligence The Handbook remains dedicated to applications and engineering orientated aspects of these areas over abstract theories

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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 Paradigms for Optimization Problems Using MATLAB®/SIMULINK®** S. Sumathi,L. Ashok Kumar,Surekha.

P,2018-09-03 Considered one of the most innovative research directions computational intelligence CI embraces techniques that use global search optimization machine learning approximate reasoning and connectionist systems to develop efficient robust and easy to use solutions amidst multiple decision variables complex constraints and tumultuous environments CI techniques involve a combination of learning adaptation and evolution used for intelligent applications Computational Intelligence Paradigms for Optimization Problems Using MATLAB Simulink explores the performance of CI in terms of knowledge representation adaptability optimality and processing speed for different real world optimization problems Focusing on the practical implementation of CI techniques this book Discusses the role of CI paradigms in engineering applications such as unit commitment and economic load dispatch harmonic reduction load frequency control and automatic voltage regulation job shop scheduling multidepot vehicle routing and digital image watermarking Explains the impact of CI on power systems control systems industrial automation and image processing through the above mentioned applications Shows how to apply CI algorithms to constraint based optimization problems using MATLAB m files and Simulink models Includes experimental analyses and results of test systems Computational Intelligence Paradigms for Optimization Problems Using MATLAB Simulink provides a valuable reference for industry professionals and advanced undergraduate postgraduate and research students *Variants of Evolutionary Algorithms for Real-World Applications* Raymond Chiong,Thomas Weise,Zbigniew Michalewicz,2011-11-13 Evolutionary Algorithms EAs are population based stochastic search algorithms that mimic natural evolution Due to their ability to find excellent solutions for conventionally hard and dynamic problems within acceptable time EAs have attracted interest from many researchers and practitioners in recent years This book Variants of Evolutionary Algorithms for Real World Applications aims to promote the practitioner s view on EAs by providing a comprehensive discussion of how EAs can be adapted to the requirements of various applications in the real world domains It comprises 14 chapters including an introductory chapter re visiting the fundamental question of what an EA is and other chapters addressing a range of real world problems such as production process planning inventory system and supply chain network optimisation task based jobs assignment planning for CNC based work piece construction mechanical ship design tasks that involve runtime intense simulations data mining for the prediction of soil properties automated tissue classification for MRI images and database query optimisation among others These chapters demonstrate how different types of problems can be successfully solved using variants of EAs and how the solution approaches are constructed in a way that can be understood and reproduced with little prior knowledge on optimisation

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Introduction

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