

Recent Advances In Simulated Evolution and Learning

Advances in Natural Computation – Vol. 2



Kay Chen Tan - Meng Hiot Lim - Xin Yao - Lipo Wang
editors

Recent Advances In Simulated Evolution And Learning

**Hock Lim, Serguei Matitsine, Yeow
Beng Gan**



Recent Advances In Simulated Evolution And Learning:

Recent Advances In Simulated Evolution And Learning Kay Chen Tan, Meng Hiot Lim, Xin Yao, Lipo Wang, 2004-08-26 Inspired by the Darwinian framework of evolution through natural selection and adaptation the field of evolutionary computation has been growing very rapidly and is today involved in many diverse application areas This book covers the latest advances in the theories algorithms and applications of simulated evolution and learning techniques It provides insights into different evolutionary computation techniques and their applications in domains such as scheduling control and power robotics signal processing and bioinformatics The book will be of significant value to all postgraduates research scientists and practitioners dealing with evolutionary computation or complex real world problems This book has been selected for coverage in Index to Scientific Technical Proceedings ISTP CDRom version ISI Proceedings CC Proceedings Engineering Physical Sciences

Recent Advances In Artificial Life Hussein A Abbass, Terry Bossomaier, Janet Wiles, 2005-11-04 Artificial life is now a recognized discipline of research with many important applications and software tools However many theoretical issues remain unresolved This book brings together a cross section of key developments in artificial life which in turn gives us new insight into the theory of complex systems The central ideas of the book surround genetics and evolution in an artificial life framework Topics covered include maintenance of genetic diversity hierarchical structures and stability of ecosystems Underpinning these topics are key theoretical developments surrounding network complexity the development of pattern languages for complex networks and a deeper understanding of the edge of chaos where complex systems live Practical applications include optimization gene regulatory networks modeling the spread of disease and the evolution of ageing The reader will gain an insight into the mathematical techniques at the core of artificial life and encounter a sufficient diversity of applications to stimulate new directions in their own field

Recent Advances in Evolutionary Multi-objective Optimization Slim Bechikh, Rituparna Datta, Abhishek Gupta, 2016-08-09 This book covers the most recent advances in the field of evolutionary multiobjective optimization With the aim of drawing the attention of up and coming scientists towards exciting prospects at the forefront of computational intelligence the authors have made an effort to ensure that the ideas conveyed herein are accessible to the widest audience The book begins with a summary of the basic concepts in multi objective optimization This is followed by brief discussions on various algorithms that have been proposed over the years for solving such problems ranging from classical mathematical approaches to sophisticated evolutionary ones that are capable of seamlessly tackling practical challenges such as non convexity multi modality the presence of multiple constraints etc Thereafter some of the key emerging aspects that are likely to shape future research directions in the field are presented These include optimization in dynamic environments multi objective bilevel programming handling high dimensionality under many objectives and evolutionary multitasking In addition to theory and methodology this book describes several real world applications from various domains which will expose the readers to the versatility of

evolutionary multi objective optimization Recent Advances in Soft Computing and Cybernetics Radek Matoušek, Jakub Kůdela, 2021-02-05 This monograph is intended for researchers and professionals in the fields of computer science and cybernetics Nowadays the areas of computer science and cybernetics mainly its artificial intelligence branches are subject to an immense degree of study and are applied in a wide range of technical and industrial projects The individual chapters of this monograph were developed from a series of invited lectures at the Brno University of Technology in the years 2018 and 2019 The main aim of these lectures was to create an opportunity for students academics and professionals to exchange ideas novel research methods and new industrial applications in the fields related to soft computing and cybernetics The authors of these chapters come from around the world and their works cover both new theoretical and application oriented results from areas such as automation control robotics optimization statistics reinforcement learning image processing and evolutionary algorithms

Recent Advances in Optimal Structural Design Scott A. Burns, 2002-01-01 Sponsored by the Technical Committee on Structural Design of the Technical Administrative Committee on Analysis and Computation of the Technical Activities Division of the Structural Engineering Institute of ASCE This report documents the dramatic new developments in the field of structural optimization over the last two decades Changes in both computational techniques and applications can be seen by developments in computational methods and solution algorithms the role of optimization during the various stages of structural design and the stochastic nature of design in relation to structural optimization Topics include methods for discrete variable structural optimization decomposition methods in structural optimization state of the art on the use of genetic algorithms in design of steel structures conceptual design optimization of engineering structures topology and geometry optimization of trusses and frames evolutionary structural optimization design and optimization of semi rigid framed structures optimized performance based design for buildings multi objective optimum design of seismic resistant structures and reliability and cost oriented optimal bridge maintenance planning The book concludes with an extensive bibliography of journal papers on structural optimization published between 1987 and 1999

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

Recent Advances in Parallel Virtual Machine and Message Passing

Interface Marian Bubak, Jack Dongarra, Jerzy Wasniewski, 1997-10-15 This book constitutes the refereed proceedings of the 4th European Parallel Virtual Machine and Message Passing Interface Users Group Meeting PVM MPI 97 held in Cracow Poland in November 1997 Parallel Virtual Machine and Message Passing Interface are the most popular tools for programming in accordance with the message passing paradigm which at present is considered to be the best way to develop effective parallel programs The book presents 63 carefully selected papers covering the whole range of PVM MPI issues The papers are organized in sections on evaluation and performance extensions and improvements implementation tools algorithms and applications in science and engineering

The Iterated Prisoners' Dilemma

Graham Kendall, 2007 In 1984 Robert Axelrod published a book relating the story of two competitions which he ran where invited academics entered strategies for the Iterated Prisoners Dilemma The book almost 20 years on is still widely read and cited by academics and the general public As a celebration of that landmark work we have recreated those competitions to celebrate its 20th anniversary by again inviting academics to submit prisoners dilemma strategies The first of these new competitions was run in July 2004 and the second in April 2005 Iterated Prisoners Dilemma 20 Years On essentially provides an update of the Axelrod's book Specifically it presents the prisoners dilemma its history and variants Highlights original Axelrod's work and its impact Discusses results of new competitions Showcases selected papers that reflect the latest researches in the area

Iterated Prisoners' Dilemma, The: 20 Years On

Xin Yao, Graham Kendall, Siang Yew Chong, 2007-05-14 In 1984 Robert Axelrod published a book relating the story of two competitions which he ran where invited academics entered strategies for the Iterated Prisoners Dilemma The book almost 20 years on is still widely read and cited by academics and the general public As a celebration of that landmark work we have recreated those competitions to celebrate its 20th anniversary by again inviting academics to submit prisoners dilemma strategies The first of these new competitions was run in July 2004 and the second in April 2005 Iterated Prisoners Dilemma 20 Years On essentially provides an update of the Axelrod's book Specifically it

Genetic Programming for Production Scheduling

Fangfang Zhang, Su Nguyen, Yi Mei, Mengjie Zhang, 2021-11-12 This book introduces readers to an evolutionary learning approach specifically genetic programming GP for production scheduling The book is divided into six parts In Part I it provides an introduction to production scheduling existing solution methods and the GP approach to production scheduling Characteristics of production environments problem formulations an abstract GP framework for production scheduling and evaluation criteria are also presented Part II shows various ways that GP can be employed to solve static production

scheduling problems and their connections with conventional operation research methods In turn Part III shows how to design GP algorithms for dynamic production scheduling problems and describes advanced techniques for enhancing GP s performance including feature selection surrogate modeling and specialized genetic operators In Part IV the book addresses how to use heuristics to deal with multiple potentially conflicting objectives in production scheduling problems and presents an advanced multi objective approach with cooperative coevolution techniques or multi tree representations Part V demonstrates how to use multitask learning techniques in the hyper heuristics space for production scheduling It also shows how surrogate techniques and assisted task selection strategies can benefit multitask learning with GP for learning heuristics in the context of production scheduling Part VI rounds out the text with an outlook on the future Given its scope the book benefits scientists engineers researchers practitioners postgraduates and undergraduates in the areas of machine learning artificial intelligence evolutionary computation operations research and industrial engineering

Informatics in Control, Automation and Robotics Joaquim Filipe, Jean-Louis Ferrier, Juan Andrade Cetto, 2008-09-27 The present book includes a set of selected papers from the fourth International Conference on Informatics in Control Automation and Robotics ICINCO 2007 held at the University of Angers France from 9 to 12 May 2007 The conference was organized in three simultaneous tracks Intelligent Control Systems and Optimization Robotics and Automation and Systems Modeling Signal Processing and Control The book is based on the same structure ICINCO 2007 received 435 paper submissions from more than 50 different countries in all continents From these after a blind review process only 52 were accepted as full papers of which 22 were selected for inclusion in this book based on the classifications provided by the Program Committee The selected papers reflect the interdisciplinary nature of the conference The diversity of topics is an important feature of this conference enabling an overall perception of several important scientific and technological trends These high quality standards will be maintained and reinforced at ICINCO 2008 to be held in Funchal Madeira Portugal and in future editions of this conference Furthermore ICINCO 2007 included 3 plenary keynote lectures given by Dimitar Filev Ford Motor Company Patrick Millot Universit de Valenciennes and Mark W Spong University of Illinois at Urbana Champaign

Applications of Multi-objective Evolutionary Algorithms Carlos A. Coello Coello, Gary B. Lamont, 2004 This book presents an extensive variety of multi objective problems across diverse disciplines along with statistical solutions using multi objective evolutionary algorithms MOEAs The topics discussed serve to promote a wider understanding as well as the use of MOEAs the aim being to find good solutions for high dimensional real world design applications The book contains a large collection of MOEA applications from many researchers and thus provides the practitioner with detailed algorithmic direction to achieve good results in their selected problem domain

New Approaches in Intelligent Image Analysis Roumen Kountchev, Kazumi Nakamatsu, 2016-05-19 This book presents an Introduction and 11 independent chapters which are devoted to various new approaches of intelligent image processing and analysis The book also presents new methods algorithms and applied systems for intelligent image processing

on the following basic topics Methods for Hierarchical Image Decomposition Intelligent Digital Signal Processing and Feature Extraction Data Clustering and Visualization via Echo State Networks Clustering of Natural Images in Automatic Image Annotation Systems Control System for Remote Sensing Image Processing Tissue Segmentation of MR Brain Images Sequence Kidney Cysts Segmentation in CT Images Audio Visual Attention Models in Mobile Robots Navigation Local Adaptive Image Processing Learning Techniques for Intelligent Access Control Resolution Improvement in Acoustic Maps Each chapter is self contained with its own references Some of the chapters are devoted to the theoretical aspects while the others are presenting the practical aspects and the analysis of the modeling of the developed algorithms in different application areas

Business Applications and Computational Intelligence Kevin E. Voges, Nigel Pope, 2006-01-01 This book deals with the computational intelligence field particularly business applications adopting computational intelligence techniques Provided by publisher

Next Generation Computing Technologies on Computational Intelligence Manish Prateek, Durgansh Sharma, Rajeev Tiwari, Rashmi Sharma, Kamal Kumar, Neeraj Kumar, 2019-11-23 The 18 full and 13 short papers presented were carefully reviewed and selected from 255 submissions There were organized in topical sections named Image Processing Pattern Analysis and Machine Vision Information and Data Convergence Disruptive Technologies for Future E Governance and Smart World

Computational Intelligence Andries P. Engelbrecht, 2007-10-22 Computational Intelligence An Introduction Second Edition offers an in depth exploration into the adaptive mechanisms that enable intelligent behaviour in complex and changing environments The main focus of this text is centred on the computational modelling of biological and natural intelligent systems encompassing swarm intelligence fuzzy systems artificial neural networks artificial immune systems and evolutionary computation Engelbrecht provides readers with a wide knowledge of Computational Intelligence CI paradigms and algorithms inviting readers to implement and problem solve real world complex problems within the CI development framework This implementation framework will enable readers to tackle new problems without any difficulty through a single Java class as part of the CI library Key features of this second edition include A tutorial hands on based presentation of the material State of the art coverage of the most recent developments in computational intelligence with more elaborate discussions on intelligence and artificial intelligence AI New discussion of Darwinian evolution versus Lamarckian evolution also including swarm robotics hybrid systems and artificial immune systems A section on how to perform empirical studies topics including statistical analysis of stochastic algorithms and an open source library of CI algorithms Tables illustrations graphs examples assignments Java code implementing the algorithms and a complete CI implementation and experimental framework Computational Intelligence An Introduction Second Edition is essential reading for third and fourth year undergraduate and postgraduate students studying CI The first edition has been prescribed by a number of overseas universities and is thus a valuable teaching tool In addition it will also be a useful resource for researchers in Computational Intelligence and Artificial Intelligence as well as engineers statisticians

operational researchers and bioinformaticians with an interest in applying AI or CI to solve problems in their domains Check out <http://www.ci.cs.up.ac.za> for examples assignments and Java code implementing the algorithms

Advances in Artificial Reality and Tele-Existence Ronghua Liang,Zhigeng Pan,Adrian Cheok,Michael Haller,Rynson W.H. Lau,Hideo Saito,2006-11-20 This book constitutes the refereed proceedings of the 16th International Conference on Artificial Reality and Telexistence ICAT 2006 held in Hangzhou China in November December 2006 The 138 revised papers cover anthropomorphic intelligent robotics artificial life augmented reality distributed and collaborative VR system motion tracking real time computer simulation virtual reality as well as VR interaction and navigation techniques

Multi-Objective Optimization in Computational Intelligence: Theory and Practice Thu Bui, Lam,Alam, Sameer,2008-05-31 Multi objective optimization MO is a fast developing field in computational intelligence research Giving decision makers more options to choose from using some post analysis preference information there are a number of competitive MO techniques with an increasingly large number of MO real world applications Multi Objective Optimization in Computational Intelligence Theory and Practice explores the theoretical as well as empirical performance of MOs on a wide range of optimization issues including combinatorial real valued dynamic and noisy problems This book provides scholars academics and practitioners with a fundamental comprehensive collection of research on multi objective optimization techniques applications and practices

Soft Computing Applications Valentina Emilia Balas,Lakhmi C. Jain,Branko Kovačević,2015-11-02 These volumes constitute the Proceedings of the 6th International Workshop on Soft Computing Applications or SOFA 2014 held on 24-26 July 2014 in Timisoara Romania This edition was organized by the University of Belgrade Serbia in conjunction with Romanian Society of Control Engineering and Technical Informatics SRAIT Arad Section The General Association of Engineers in Romania Arad Section Institute of Computer Science Iasi Branch of the Romanian Academy and IEEE Romanian Section The Soft Computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability robustness and low solution cost Soft computing facilitates the use of fuzzy logic neurocomputing evolutionary computing and probabilistic computing in combination leading to the concept of hybrid intelligent systems The combination of such intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains The conference papers included in these proceedings published post conference were grouped into the following area of research Image Text and Signal Processing Intelligent Transportation Modeling and Applications Biomedical Applications Neural Network and Applications Knowledge Based Technologies for Web Applications Cloud Computing Security Algorithms and Computer Networks Knowledge Based Technologies Soft Computing Techniques for Time Series Analysis Soft Computing and Fuzzy Logic in Biometrics Fuzzy Applications Theory and Fuzzy Control Business Process Management Methods and Applications in

Electrical Engineering The volumes provide useful information to professors researchers and graduated students in area of soft computing techniques and applications as they report new research work on challenging issues Electromagnetic Materials - Proceedings Of The Symposium R Hock Lim,Serguei Matitsine,Yeow Beng Gan,2005-06-24 This volume comprises the main ideas and the latest results in the study of electromagnetic materials as presented at the Symposium on Electromagnetic Materials ICMAT 2005 The high quality contributions reflect the principle aims of the conference to provide an international forum for scientists and engineers to report their most recent research findings to exchange ideas and information and to nurture and establish research ties Electromagnetic materials have both civilian and defence applications such as novel antenna designs protection against high power transients in densely packed printed circuits and special frequency response or polarization response to meet component or system specifications An in depth understanding of the responses of materials to electromagnetic waves may even enable us to design and fabricate materials with properties not found in nature

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Recent Advances In Simulated Evolution And Learning Introduction

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



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