

# Recent Advances in Memetic Algorithms

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Recent Advances in Memetic Algorithms  
Plenary Talk at the "EUMM Workshop: Design and Evaluation of Advanced Hybrid Metaheuristics"



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# Recent Advances In Memetic Algorithms

**Fabio Caraffini,Valentino  
Santucci,Alfredo Milani**



## **Recent Advances In Memetic Algorithms:**

**Recent Advances in Memetic Algorithms** William E. Hart, Natalio Krasnogor, James E Smith, 2009-09-02 Memetic algorithms are evolutionary algorithms that apply a local search process to refine solutions to hard problems Memetic algorithms are the subject of intense scientific research and have been successfully applied to a multitude of real world problems ranging from the construction of optimal university exam timetables to the prediction of protein structures and the optimal design of space craft trajectories This monograph presents a rich state of the art gallery of works on memetic algorithms Recent Advances in Memetic Algorithms is the first book that focuses on this technology as the central topical matter This book gives a coherent integrated view on both good practice examples and new trends including a concise and self contained introduction to memetic algorithms It is a necessary read for postgraduate students and researchers interested in recent advances in search and optimization technologies based on memetic algorithms but can also be used as complement to undergraduate textbooks on artificial intelligence

Recent Advances in Memetic Algorithms William E. Hart, Natalio Krasnogor, J.E. Smith, 2006-06-22 Memetic algorithms are evolutionary algorithms that apply a local search process to refine solutions to hard problems Memetic algorithms are the subject of intense scientific research and have been successfully applied to a multitude of real world problems ranging from the construction of optimal university exam timetables to the prediction of protein structures and the optimal design of space craft trajectories This monograph presents a rich state of the art gallery of works on memetic algorithms Recent Advances in Memetic Algorithms is the first book that focuses on this technology as the central topical matter This book gives a coherent integrated view on both good practice examples and new trends including a concise and self contained introduction to memetic algorithms It is a necessary read for postgraduate students and researchers interested in recent advances in search and optimization technologies based on memetic algorithms but can also be used as complement to undergraduate textbooks on artificial intelligence

*Recent Advances in Memetic Algorithms* William E. Hart, Natalio Krasnogor, James E Smith, 2004-10-18 Memetic algorithms are evolutionary algorithms that apply a local search process to refine solutions to hard problems Memetic algorithms are the subject of intense scientific research and have been successfully applied to a multitude of real world problems ranging from the construction of optimal university exam timetables to the prediction of protein structures and the optimal design of space craft trajectories This monograph presents a rich state of the art gallery of works on memetic algorithms Recent Advances in Memetic Algorithms is the first book that focuses on this technology as the central topical matter This book gives a coherent integrated view on both good practice examples and new trends including a concise and self contained introduction to memetic algorithms It is a necessary read for postgraduate students and researchers interested in recent advances in search and optimization technologies based on memetic algorithms but can also be used as complement to undergraduate textbooks on artificial intelligence

Recent Advances on Memetic Algorithms and its Applications in Image Processing D. Jude

Hemanth,B. Vinoth Kumar,G. R. Karpagam Manavalan,2019-12-07 This book includes original research findings in the field of memetic algorithms for image processing applications It gathers contributions on theory case studies and design methods pertaining to memetic algorithms for image processing applications ranging from defence medical image processing and surveillance to computer vision robotics etc The content presented here provides new directions for future research from both theoretical and practical viewpoints and will spur further advances in the field      **Recent Advances in Evolutionary**

**Computation for Combinatorial Optimization** Carlos Cotta,2008-08-26 This cutting edge volume presents recent advances in the area of metaheuristic combinatorial optimisation with a special focus on evolutionary computation methods Moreover it addresses local search methods and hybrid approaches      **Recent Advances In Mathematics, Statistics And Computer Science 2015 - International Conference** Arun Kumar Sinha,R Rajesh,Prabhat Ranjan,Rajesh Pratap

Singh,2016-06-09 This unique volume presents the scientific achievements significant discoveries and pioneering contributions of various academicians industrialist and research scholars The book is an essential source of reference and provides a comprehensive overview of the author s work in the field of mathematics statistics and computer science

*Recent Advances in Decision Making* Elisabeth Rakus-Andersson,Ronald R. Yager,Nikhil Ichalkaranje,2009-08-05 Intelligent paradigms are increasingly finding their ways in the design and development of decision support systems This book presents a sample of recent research results from key researchers The contributions include Introduction to intelligent systems in decision making A new method of ranking intuitionistic fuzzy alternatives Fuzzy rule base model identification by bacterial memetic algorithms Discovering associations with uncertainty from large databases Dempster Shafer structures monotonic set measures and decision making Interpretable decision making models A general methodology for managerial decision making Supporting decision making via verbalization of data analysis results using linguistic data summaries Computational intelligence in medical decisions making This book is directed to the researchers graduate students professors decision makers and to those who are interested to investigate intelligent paradigms in decision making      **Recent**

**Advances in Soft Computing** Radek Matoušek,2017-05-20 This proceeding book contains a collection of selected accepted papers of the Mendel conference held in Brno Czech Republic in June 2016 The proceedings book contains three chapters which present recent advances in soft computing including intelligent image processing The Mendel conference was established in 1995 and is named after the scientist and Augustinian priest Gregor J Mendel who discovered the famous Laws of Heredity The main aim of the conference is to create a regular possibility for students academics and researchers to exchange ideas and novel research methods on a yearly basis      Recent Advances in Computer Science and Information

Engineering Zhihong Qian,Lei Cao,Weilian Su,Tingkai Wang,Huamin Yang,2012-01-25 CSIE 2011 is an international scientific Congress for distinguished scholars engaged in scientific engineering and technological research dedicated to build a platform for exploring and discussing the future of Computer Science and Information Engineering with existing and

potential application scenarios The congress has been held twice in Los Angeles USA for the first and in Changchun China for the second time each of which attracted a large number of researchers from all over the world The congress turns out to develop a spirit of cooperation that leads to new friendship for addressing a wide variety of ongoing problems in this vibrant area of technology and fostering more collaboration over the world The congress CSIE 2011 received 2483 full paper and abstract submissions from 27 countries and regions over the world Through a rigorous peer review process all submissions were refereed based on their quality of content level of innovation significance originality and legibility 688 papers have been accepted for the international congress proceedings ultimately

*Recent Advances in Intelligent Engineering Systems* János Fodor, Ryszard Klempous, Carmen Paz Suárez Araujo, 2011-09-25 This volume is a collection of 19 chapters on intelligent engineering systems written by respectable experts of the fields The book consists of three parts The first part is devoted to the foundational aspects of computational intelligence It consists of 8 chapters that include studies in genetic algorithms fuzzy logic connectives enhanced intelligence in product models nature inspired optimization technologies particle swarm optimization evolution algorithms model complexity of neural networks and fitness landscape analysis The second part contains contributions to intelligent computation in networks presented in 5 chapters The covered subjects include the application of self organizing maps for early detection of denial of service attacks combating security threats via immunity and adaptability in cognitive radio networks novel modifications in WSN network design for improved SNR and reliability a conceptual framework for the design of audio based cognitive infocommunication channels and a case study on the advantages of fuzzy and anytime signal and image processing techniques Computational intelligence represents a widely spread interdisciplinary research area with many applications in various disciplines including engineering medicine technology environment among others Therefore third part of this book consists of 6 chapters on applications This is a very important part of the volume because the reader can find in it a wide range of fields where computational intelligence plays a significant role

**Advances in Engineering Structures, Mechanics & Construction** M. Pandey, Wei-Chau Xie, Lei Xu, 2007-02-10 This book presents the proceedings of an International Conference on Advances in Engineering Structures Mechanics Construction held in Waterloo Ontario Canada May 14 17 2006 The contents include contains the texts of all three plenary presentations and all seventy three technical papers by more than 153 authors presenting the latest advances in engineering structures mechanics and construction research and practice

*Advanced Methods and Technologies for Agent and Multi-Agent Systems* D. Barbucha, M.T. Le, R.J. Howlett, 2013-05-14 The field of agent and multi agent systems is concerned with the development and evaluation of sophisticated AI based problem solving and control architectures for both single and multi agent systems This book presents the proceedings of the 7th KES Conference on Agent and Multi agent Systems Technologies and Applications KES AMSTA 2013 held in Hue City Vietnam in May 2013 The KES AMSTA 2013 conference provides an internationally respected forum for scientific research in the technologies and applications of agent

and multi agent systems In all 44 papers were selected for oral presentation and publication in this volume Special attention is paid to the feature topics of intelligent technologies and applications in the area of e health social networking self organizing systems economics and trust management Other topics covered include agent oriented software engineering beliefs engineering desires and intentions representation agent cooperation coordination negotiation organization and communication distributed problem solving specification of agent communication languages formalization of ontologies and conversational agents The book highlights new trends and challenges in agent and multi agent research and will be of interest 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 and applications

*Advances in Computational Intelligence* Joan Cabestany, Ignacio Rojas, Gonzalo Joya, 2011-05-30 This two volume set LNCS 6691 and 6692 constitutes the refereed proceedings of the 11th International Work Conference on Artificial Neural Networks IWANN 2011 held in Torremolinos Málaga Spain in June 2011 The 154 revised papers were carefully reviewed and selected from 202 submissions for presentation in two volumes The second volume includes 76 papers organized in topical sections on video and image processing hybrid artificial neural networks models algorithms and data advances in machine learning for bioinformatics and computational biomedicine biometric systems for human machine interaction data mining in biomedicine bio inspired combinatorial optimization applying evolutionary computation and nature inspired algorithms to formal methods recent advances on fuzzy logic and soft computing applications new advances in theory and applications of ICA based algorithms biological and bio inspired dynamical systems and interactive and cognitive environments The last section contains 9 papers from the International Workshop on Intelligent Systems for Context Based Information Fusion ISCIF 2011 held at IWANN 2011

**Advances in Computing, Communication, Automation and Biomedical Technology** M. G. Sumithra, Arulmurugan Ramu, Chow Chee Onn, 2020-12-30 *Advances in Computing Communication Automation and Biomedical Technology* aims to bring together leading academic scientists researchers industry representatives postdoctoral fellows and research scholars around the world to share their knowledge and research expertise to advances in the areas of Computing Communication Electrical Civil Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas It also provides a premier interdisciplinary platform for researchers practitioners and educators to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of innovation

**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 on Hybrid Intelligent Systems Oscar Castillo,Patricia Melin,Janusz Kacprzyk,2012-09-14 This book presents recent advances on hybrid intelligent systems using soft computing techniques for intelligent control and robotics pattern recognition time series prediction and optimization of complex problems Soft Computing SC consists of several intelligent computing paradigms including fuzzy logic neural networks and bio inspired optimization algorithms which can be used to produce powerful hybrid intelligent systems The book is organized in five main parts which contain groups of papers around a similar subject The first part consists of papers with the main theme of hybrid intelligent systems for control and robotics which are basically state of the art papers that propose new models and concepts which can be the basis for achieving intelligent control and mobile robotics The second part contains papers with the main theme of hybrid intelligent systems for pattern recognition and time series prediction which are basically papers using nature inspired techniques like evolutionary algorithms fuzzy logic and neural networks for achieving efficient pattern recognition or time series prediction The third part contains papers with the theme of bio inspired and genetic optimization methods which basically consider the proposal of new methods and applications of bio inspired optimization to solve complex optimization of real problems The fourth part contains papers that deal with the application of intelligent optimization techniques in real world problems in scheduling planning and manufacturing The fifth part contains papers with the theme of evolutionary methods and intelligent computing which are papers considering soft computing methods for applications related to diverse areas such as natural language processing recommending systems and optimization

*Evolutionary Multi-Criterion Optimization* Kalyanmoy Deb,Erik Goodman,Carlos A. Coello Coello,Kathrin Klamroth,Kaisa Miettinen,Sanaz Mostaghim,Patrick Reed,2019-02-28 This book constitutes the refereed proceedings of the 10th International Conference on Evolutionary Multi Criterion Optimization EMO 2019 held in East Lansing MI USA in March 2019 The 59 revised full papers were carefully reviewed and selected from 76 submissions The papers are divided into 8 categories each representing a key area of current interest in the EMO field today They include theoretical developments algorithmic developments issues in many objective optimization performance metrics knowledge extraction and surrogate based EMO multi objective

combinatorial problem solving MCDM and interactive EMO methods and applications      **Vision 2020 N.**

Ravichandran,2005-09-11      **Evolutionary Computation & Swarm Intelligence** Fabio Caraffini,Valentino

Santucci,Alfredo Milani,2020-11-25 The vast majority of real world problems can be expressed as an optimisation task by formulating an objective function also known as cost or fitness function The most logical methods to optimise such a function when 1 an analytical expression is not available 2 mathematical hypotheses do not hold and 3 the dimensionality of the problem or stringent real time requirements make it infeasible to find an exact solution mathematically are from the field of Evolutionary Computation EC and Swarm Intelligence SI The latter are broad and still growing subjects in Computer Science in the study of metaheuristic approaches i.e. those approaches which do not make any assumptions about the problem function inspired from natural phenomena such as in the first place the evolution process and the collaborative behaviours of groups of animals and communities respectively This book contains recent advances in the EC and SI fields covering most themes currently receiving a great deal of attention such as benchmarking and tuning of optimisation algorithms their algorithm design process and their application to solve challenging real world problems to face large scale domains

**Stochastic Local Search Algorithms for Multiobjective Combinatorial Optimization** Luis F. Paquete,2006

Stochastic Local Search algorithms were shown to give state of the art results for many other problems but little is known on how to design and analyse them for Multiobjective Combinatorial Optimization Problems This book aims to fill this gap It defines two search models that correspond to two distinct ways of tackling MCOPs by SLS algorithms



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