

Solving Traveling Salesman Problem By Using Improved Ant

Parallel Problem Solving from Nature--PPSN ... 2004

Smart Systems Engineering

Cihan H. Dagli 2006

Proceedings Annie Conference, November 2006, St. Louis, Missouri. The newest volume in this series presents refereed papers in the following categories and their applications in the engineering domain: Neural Networks; Complex Networks; Evolutionary Programming; Data Mining; Fuzzy Logic; Adaptive Control; Pattern Recognition; Smart Engineering System Design.

These papers are intended to provide a forum for researchers in the field to exchange ideas on smart engineering system design.

Advances in Bio-inspired Computing for Combinatorial Optimization Problems

Camelia-Mihaela Pinte

2013-08-13 "Advances in Bio-

inspired Combinatorial Optimization Problems" illustrates several recent bio-inspired efficient algorithms for solving NP-hard problems. Theoretical bio-inspired concepts and models, in particular for agents, ants and virtual robots are described. Large-scale optimization problems, for example: the Generalized Traveling Salesman Problem and the Railway Traveling Salesman Problem, are solved and their results are discussed. Some of the main concepts and models described in this book are: inner rule to guide ant search - a recent model in ant optimization, heterogeneous sensitive ants; virtual sensitive robots; ant-based techniques for static and dynamic routing problems; stigmergic collaborative agents and learning sensitive agents. This monograph is useful for researchers, students and all

people interested in the recent natural computing frameworks. The reader is presumed to have knowledge of combinatorial optimization, graph theory, algorithms and programming. The book should furthermore allow readers to acquire ideas, concepts and models to use and develop new software for solving complex real-life problems.

Nature-Inspired

Computation and Swarm Intelligence

Xin-She Yang
2020-04-10 Nature-inspired computation and swarm intelligence have become popular and effective tools for solving problems in optimization, computational intelligence, soft computing and data science. Recently, the literature in the field has expanded rapidly, with new algorithms and applications emerging. Nature-Inspired Computation and Swarm Intelligence: Algorithms, Theory and Applications is a timely reference giving a comprehensive review of relevant state-of-the-art developments in algorithms,

theory and applications of nature-inspired algorithms and swarm intelligence. It reviews and documents the new developments, focusing on nature-inspired algorithms and their theoretical analysis, as well as providing a guide to their implementation. The book includes case studies of diverse real-world applications, balancing explanation of the theory with practical implementation. Nature-Inspired Computation and Swarm Intelligence: Algorithms, Theory and Applications is suitable for researchers and graduate students in computer science, engineering, data science, and management science, who want a comprehensive review of algorithms, theory and implementation within the fields of nature inspired computation and swarm intelligence.

2005 IEEE International Conference on Service Operations and Logistics, and Informatics Robin G. Qiu
2005

Nonlinear Dynamical

Systems and Adaptive Methods Herbert Dawid 1999
Journal of Information & Optimization Sciences 2006
Evolutionary Algorithms in Engineering and Computer Science K. Miettinen 1999-07-09 Evolutionary Algorithms in Engineering and Computer Science Edited by K. Miettinen, University of Jyväskylä, Finland M. M. Mäkelä, University of Jyväskylä, Finland P. Neittaanmäki, University of Jyväskylä, Finland J. Périaux, Dassault Aviation, France What is Evolutionary Computing? Based on the genetic message encoded in DNA, and digitalized algorithms inspired by the Darwinian framework of evolution by natural selection, Evolutionary Computing is one of the most important information technologies of our times. Evolutionary algorithms encompass all adaptive and computational models of natural evolutionary systems - genetic algorithms, evolution strategies, evolutionary programming and genetic programming. In addition, they

work well in the search for global solutions to optimization problems, allowing the production of optimization software that is robust and easy to implement. Furthermore, these algorithms can easily be hybridized with traditional optimization techniques. This book presents state-of-the-art lectures delivered by international academic and industrial experts in the field of evolutionary computing. It bridges artificial intelligence and scientific computing with a particular emphasis on real-life problems encountered in application-oriented sectors, such as aerospace, electronics, telecommunications, energy and economics. This rapidly growing field, with its deep understanding and assessment of complex problems in current practice, provides an effective, modern engineering tool. This book will therefore be of significant interest and value to all postgraduates, research scientists and practitioners facing complex optimization

problems.

Particle Swarm

Optimization with

Applications Pakize Erdogmus

2018-05-30 This book is intended to gather recent studies on particle swarm optimization (PSO). In this book, readers can find the recent theoretical developments and applications on PSO algorithm. From the theoretical aspect, PSO has preserved its popularity because of the fast convergence rate, and a lot of hybrid algorithms have recently been developed in order to increase the performance of the algorithm. At the same time, PSO has also been used to solve different kinds of engineering optimization problems. In this book, a reader can find engineering applications of PSO, such as environmental economic dispatch and grid computing.

Nature-Inspired Algorithms and Applications S.

Balamurugan 2021-11-18

NATURE-INSPIRED
ALGORITHMS AND

APPLICATIONS The book's unified approach of balancing algorithm introduction, theoretical background and practical implementation, complements extensive literature with well-chosen case studies to illustrate how these algorithms work. Inspired by the world around them, researchers are gathering information that can be developed for use in areas where certain practical applications of nature-inspired computation and machine learning can be applied. This book is designed to enhance the reader's understanding of this process by portraying certain practical applications of nature-inspired algorithms (NIAs) specifically designed to solve complex real-world problems in data analytics and pattern recognition by means of domain-specific solutions. Since various NIAs and their multidisciplinary applications in the mechanical engineering and electrical engineering sectors; and in machine learning, image processing, data mining, and wireless

networks are dealt with in detail in this book, it can act as a handy reference guide.

Among the subjects of the 12 chapters are: A novel method based on TRIZ to map real-world problems to nature problems Applications of cuckoo search algorithm for optimization problems Performance analysis of nature-inspired algorithms in breast cancer diagnosis Nature-inspired computation in data mining Hybrid bat-genetic algorithm-based novel optimal wavelet filter for compression of image data Efficiency of finding best solutions through ant colony optimization techniques Applications of hybridized algorithms and novel algorithms in the field of machine learning. Audience: Researchers and graduate students in mechanical engineering, electrical engineering, machine learning, image processing, data mining, and wireless networks will find this book very useful.

Insertion Ant Colony Optimization for Solving the Traveling Salesman Problem

Yu-Cheng Kuo 2008 Inspired from the ant foraging behavior, the ant colony algorithm has provided a new approach for solving discrete optimization problems--the traveling salesman problem (TSP), for instance, is usually tested as the benchmark. Since the ant colony algorithm was introduced in the 1990's, many refinements have been developed to improve the performance by refining the pheromone updating strategies, which have achieved great success on small- and medium-size of TSP instances. However, refining the pheromone updating strategies only can not further improve the performance of the traditional ant colony algorithms on large scale TSP instances. In this study, a new algorithm, insertion ant colony system (IACS) is proposed in order to overcome drawbacks that traditional ant colony algorithms may encounter while solving large scale TSP instances. By incrementally re-optimizing the initial solution, the IACS performs as well as

the LK algorithm on large TSP instances.

Proceedings of the ... IEEE Conference on Evolutionary Computation 1997

Scientific Annals of Computer Science 2006

BICS 2008 Calin Enachescu
2009-05-26 This book contains selected papers presented at the International Conference "Bio-Inspired Computational Methods Used for Difficult Problems Solving.

Development of Intelligent and Complex Systems" - BICS 2008, organized by the Romanian Academy, Bucharest and Petru Major University of Tg. Mures, held on 5-7 November 2008 at Petru Major University of Tg. Mures, Romania. The aim of this conference was to bring together researchers working in the main areas of Complex Systems, Artificial Intelligence, Intelligent Systems and Natural Computing for presenting their recent results and exchanging ideas. The papers included in the book provide an introduction and also a state of the art to the bio-inspired computer science.

The areas covered were those of natural computing, such as evolutionary and neural computing, as well as younger research directions, such as DNA computing, ant colony optimization, with connections and applications to intelligent complex systems and to medical informatics. Thus, both directions of research, from biology to informatics and from informatics to biology are illustrated.

Mechanical Engineering and Green Manufacturing II

Shao Bo Zhong 2012-02-27
Selected, peer reviewed papers from the 2nd International Conference on Mechanical Engineering and Green Manufacturing (MEGM 2012), March 16-18, 2012, Chongqing, China

Advances in Neural Networks--ISNN ... 2005

Components, Packaging and Manufacturing Technology

Yanwen Wu 2011-01-20
Selected, peer reviewed paper from 2010 International Conference on Components, Packaging and Manufacturing Technology (ICCPMT 2010)

Sanya, China, December 9-10, 2010

Computational Intelligence in Data Mining - Volume 1

Lakhmi C. Jain 2014-12-10 The contributed volume aims to explicate and address the difficulties and challenges for the seamless integration of two core disciplines of computer science, i.e., computational intelligence and data mining. Data Mining aims at the automatic discovery of underlying non-trivial knowledge from datasets by applying intelligent analysis techniques. The interest in this research area has experienced a considerable growth in the last years due to two key factors: (a) knowledge hidden in organizations' databases can be exploited to improve strategic and managerial decision-making; (b) the large volume of data managed by organizations makes it impossible to carry out a manual analysis. The book addresses different methods and techniques of integration for enhancing the overall goal of data mining. The book helps

to disseminate the knowledge about some innovative, active research directions in the field of data mining, machine and computational intelligence, along with some current issues and applications of related topics.

High Performance Algorithms and Software in Nonlinear Optimization Renato de Leone 1998-11-30 This book contains a selection of papers presented at the conference on High Performance Software for Nonlinear Optimization (HPSNO97) which was held in Ischia, Italy, in June, 1997. The book provides an overview of the nonlinear optimization field, including algorithms, software evaluation, implementation issues, applications, and areas of research, through authoritative papers by some of the most active and well-known researchers in the field. The papers of the Proceedings can be recommended to mathematicians, physicists, and engineers working in the fields mentioned above, as well as recommended for further

reading within graduate studies.

Data Mining and Big Data Ying Tan 2016-07-04 The LNCS volume LNCS 9714 constitutes the refereed proceedings of the International Conference on Data Mining and Big Data, DMDB 2016, held in Bali, Indonesia, in June 2016. The 57 papers presented in this volume were carefully reviewed and selected from 115 submissions. The theme of DMDB 2016 is "Serving Life with Data Science". Data mining refers to the activity of going through big data sets to look for relevant or pertinent information. The papers are organized in 10 cohesive sections covering all major topics of the research and development of data mining and big data and one Workshop on Computational Aspects of Pattern Recognition and Computer Vision.

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