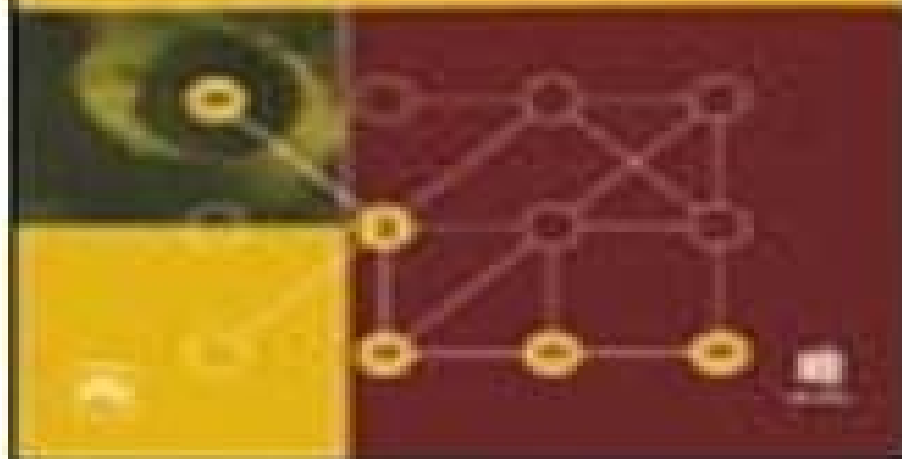




Ant Colony Optimization

Marco Dorigo and Thomas Stützle



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Gambardella, Mauro Birattari, Alcherio Martinoli, Riccardo Poli, Thomas Stützle, 2006-08-29 This book constitutes the refereed proceedings of the 5th International Workshop on Ant Colony Optimization and Swarm Intelligence ANTS 2006 held in Brussels Belgium in September 2006 The 27 revised full papers 23 revised short papers and 12 extended abstracts presented were carefully reviewed and selected from 115 submissions **PRIMA 2013: Principles and Practice of Multi-Agent**

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Hao, Nicolas Monmarché, Evelyne Lutton, Marc Schoenauer, 2014-10-24 This book constitutes the refereed proceedings of the

11th International Conference on Artificial Evolution EA 2013 held in Bordeaux France in October 2013 The 20 revised papers were carefully reviewed and selected from 39 submissions The papers are focused to theory ant colony optimization applications combinatorial and discrete optimization memetic algorithms genetic programming interactive evolution parallel evolutionary algorithms and swarm intelligence **Management Perspective for Transport Telematics** Jerzy Mikulski, 2018-09-05 This book constitutes the thoroughly refereed proceedings of the 18th International Conference on Transport Systems Telematics TST 2018 held in Krakow Poland in March 2018 The 36 full papers presented in this volume were carefully reviewed and selected from 128 submissions They present and organize the knowledge from within the field of telematics in road transport in rail transport in marine transport in air transport in logistics **Swarm Intelligence and Bio-Inspired Computation** Xin-She Yang, Zhihua Cui, Renbin Xiao, Amir Hossein Gandomi, Mehmet Karamanoglu, 2013-05-16 Swarm Intelligence and bio inspired computation have become increasing popular in the last two decades Bio inspired algorithms such as ant colony algorithms bat algorithms bee algorithms firefly algorithms cuckoo search and particle swarm optimization have been applied in almost every area of science and engineering with a dramatic increase of number of relevant publications This book reviews the latest developments in swarm intelligence and bio inspired computation from both the theory and application side providing a complete resource that analyzes and discusses the latest and future trends in research directions It can help new researchers to carry out timely research and inspire readers to develop new algorithms With its impressive breadth and depth this book will be useful for advanced undergraduate students PhD students and lecturers in computer science engineering and science as well as researchers and engineers Focuses on the introduction and analysis of key algorithms Includes case studies for real world applications Contains a balance of theory and applications so readers who are interested in either algorithm or applications will all benefit from this timely book **Advances in Artificial Intelligence and Soft Computing** Grigori Sidorov, Sofía N. Galicia-Haro, 2015-11-19 The two volume set LNAI 9413 LNAI 9414 constitutes the proceedings of the 14th Mexican International Conference on Artificial Intelligence MICAI 2015 held in Cuernavaca Morelos Mexico in October 2015 The total of 98 papers presented in these proceedings was carefully reviewed and selected from 297 submissions They were organized in topical sections named natural language processing logic and multi agent systems bioinspired algorithms neural networks evolutionary algorithms fuzzy logic machine learning and data mining natural language processing applications educational applications biomedical applications image processing and computer vision search and optimization forecasting and intelligent applications **Recent Advances in Traffic Engineering for Transport Networks and Systems** Elżbieta Macioszek, Grzegorz Sierpiński, 2017-08-01 This book is a collation of numerous valuable guidelines for making decisions based on recent advances and improvement of transport systems Offering know how and discussing practical examples as well as decision making support systems it is of interest of those who face the challenge of seeking solutions to contemporary transport system problems on a daily basis including local

authorities involved in planning and preparation of development strategies for specific transport related areas in both urban and regional dimension as well as representatives of business and industry who participate directly in the implementation of traffic engineering solutions The guidelines are provided in individual chapters making it possible to address the given problem in an advanced manner and simplify the choice of appropriate strategies including those related to increasing competitiveness of public transport identifying bus lines to potentially be serviced by electric buses pedestrian traffic solutions developing bike sharing systems safety conditions in road tunnels integrating supply chains or route planning support by means of technologically advanced systems and applications On the other hand since the book also addresses the new approach to theoretical models including traffic flow surveys and measurements transport behaviours capacity models delay modelling and road condition modelling it appeals to researchers and scientists studying this body of problems The book entitled Recent Advances in Traffic Engineering for Transport Networks and Systems includes selected papers submitted to and presented at the 14th Scientific and Technical Conference Transport Systems Theory and Practice organised by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology The conference was held on 18 20 September 2017 in Katowice Poland

New Backpropagation Algorithm with Type-2 Fuzzy Weights for Neural Networks Fernando Gaxiola, Patricia Melin, Fevrier Valdez, 2016-06-02 In this book a neural network learning method with type 2 fuzzy weight adjustment is proposed The mathematical analysis of the proposed learning method architecture and the adaptation of type 2 fuzzy weights are presented The proposed method is based on research of recent methods that handle weight adaptation and especially fuzzy weights The internal operation of the neuron is changed to work with two internal calculations for the activation function to obtain two results as outputs of the proposed method Simulation results and a comparative study among monolithic neural networks neural network with type 1 fuzzy weights and neural network with type 2 fuzzy weights are presented to illustrate the advantages of the proposed method The proposed approach is based on recent methods that handle adaptation of weights using fuzzy logic of type 1 and type 2 The proposed approach is applied to a cases of prediction for the Mackey Glass for 17 and Dow Jones time series and recognition of person with iris biometric measure In some experiments noise was applied in different levels to the test data of the Mackey Glass time series for showing that the type 2 fuzzy backpropagation approach obtains better behavior and tolerance to noise than the other methods The optimization algorithms that were used are the genetic algorithm and the particle swarm optimization algorithm and the purpose of applying these methods was to find the optimal type 2 fuzzy inference systems for the neural network with type 2 fuzzy weights that permit to obtain the lowest prediction error

Swarm Intelligence Mauro Birattari, Christian Blum, Anders Lyhne Christensen, Andries P. Engelbrecht, Roderich Groß, Marco Dorigo, Thomas Stützle, 2012-08-23 This book constitutes the proceedings of the 8th International Conference on Swarm Intelligence held in Brussels Belgium in September 2012 This volume contains 15 full papers 20 short papers and 7

extended abstracts carefully selected out of 81 submissions The papers cover various topics of swarm intelligence

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