

What is

Ant Colony Optimization (ACO)

Ant Colony Optimization is algorithm inspired by ant foraging to solve optimization problems.



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Rudolf Kruse, Christian
Borgelt, Christian Braune, Sanaz
Mostaghim, Matthias Steinbrecher

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Ant Colony Optimization Marco Dorigo, Thomas Stutzle, 2004-06-04 An overview of the rapidly growing field of ant colony optimization that describes theoretical findings the major algorithms and current applications. The complex social behaviors of ants have been much studied by science and computer scientists are now finding that these behavior patterns can provide models for solving difficult combinatorial optimization problems The attempt to develop algorithms inspired by one aspect of ant behavior the ability to find what computer scientists would call shortest paths has become the field of ant colony optimization ACO the most successful and widely recognized algorithmic technique based on ant behavior This book presents an overview of this rapidly growing field from its theoretical inception to practical applications including descriptions of many available ACO algorithms and their uses The book first describes the translation of observed ant behavior into working optimization algorithms The ant colony metaheuristic is then introduced and viewed in the general context of combinatorial optimization This is followed by a detailed description and guide to all major ACO algorithms and a report on current theoretical findings The book surveys ACO applications now in use including routing assignment scheduling subset machine learning and bioinformatics problems AntNet an ACO algorithm designed for the network routing problem is described in detail The authors conclude by summarizing the progress in the field and outlining future research directions Each chapter ends with bibliographic material bullet points setting out important ideas covered in the chapter and exercises Ant Colony Optimization will be of interest to academic and industry researchers graduate students and practitioners who wish to learn Ant Colony Optimization and Swarm Intelligence Marco Dorigo, Luca Maria how to implement ACO algorithms 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 Artificial Evolution Pierrick Legrand, Marc-Michel Corsini, Jin-Kao 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 Applications of Evolutionary Computation Giovanni Squillero, Paolo Burelli, 2016-03-22 The two volumes LNCS 9597 and 9598 constitute the refereed conference proceedings of the 19th European Conference on the Applications of Evolutionary Computation EvoApplications 2016 held in Porto Portugal in March April 2016 co located with the Evo 2016 events EuroGP EvoCOP and EvoMUSART The 57 revised full papers presented together with 17 poster papers were carefully reviewed and selected from 115 submissions EvoApplications 2016

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gathers papers presented at the International Conference on Advanced Intelligent Systems for Sustainable Development AI2SD 2018 which was held in Tangiers Morocco on 12 14 July 2018 It highlights how advanced intelligent systems have successfully been used to develop tools and techniques for modeling prediction and decision support in connection with the environment Though chiefly intended for researchers and practitioners in advanced intelligent systems for sustainable development the book will also be of interest to those working in environment and the Internet of Things environment and big data analysis summarization prediction remote sensing geo information geophysics marine and coastal environments and sensor networks for environment services Computational Intelligence Rudolf Kruse, Christian Borgelt, Christian Braune, Sanaz Mostaghim, Matthias Steinbrecher, 2016-09-16 This textbook provides a clear and logical introduction to the field covering the fundamental concepts algorithms and practical implementations behind efforts to develop systems that exhibit intelligent behavior in complex environments This enhanced second edition has been fully revised and expanded with new content on swarm intelligence deep learning fuzzy data analysis and discrete decision graphs Features provides supplementary material at an associated website contains numerous classroom tested examples and definitions throughout the text presents useful insights into all that is necessary for the successful application of computational intelligence methods explains the theoretical background underpinning proposed solutions to common problems discusses in great detail the classical areas of artificial neural networks fuzzy systems and evolutionary algorithms reviews the latest developments in the field covering such topics as ant colony optimization and probabilistic graphical models Metaheuristics and Optimization in Civil Engineering Xin-She Yang, Gebrail Bekdaş, Sinan Melih Nigdeli, 2015-12-10 This timely book deals with a current topic i e the applications of metaheuristic algorithms with a primary focus on optimization problems in civil engineering The first chapter offers a concise overview of different kinds of metaheuristic algorithms explaining their advantages in solving complex engineering problems that cannot be effectively tackled by traditional methods and citing the most important works for further reading The remaining chapters report on advanced studies on the applications of certain metaheuristic algorithms to specific engineering problems Genetic algorithm bat algorithm cuckoo search harmony search and simulated annealing are just some of the methods presented and discussed step by step in real application contexts in which they are often used in combination with each other Thanks to its synthetic yet meticulous and practice oriented approach the book is a perfect guide for graduate students researchers and professionals willing to applying metaheuristic algorithms in civil engineering and other related engineering fields such as mechanical transport and geotechnical engineering It is also a valuable aid for both lectures and advanced engineering students

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