


Veysel Gazi
Kevin M. Passino

Swarm Stability and Optimization

 Springer

Swarm Stability And Optimization

Paul Kaufmann, Pedro A. Castillo



Swarm Stability And Optimization:

Swarm Stability and Optimization Veysel Gazi, Kevin M. Passino, 2011-02-01 Swarming species such as flocks of birds or schools of fish exhibit fascinating collective behaviors during migration and predator avoidance Similarly engineered multi agent dynamic systems such as groups of autonomous ground underwater or air vehicles vehicle swarms exhibit sophisticated collective behaviors while maneuvering In this book we show how to model and control a wide range of such multi agent dynamic systems and analyze their collective behavior using both stability theoretic and simulation based approaches In particular we investigate problems such as group aggregation social foraging formation control swarm tracking distributed agreement and engineering optimization inspired by swarm behavior **Small-Signal Stability**

Modelling and Optimization of Microgrids Simon Eberlein, 2021-08-31 The stability of power systems and microgrids is compromised by the increasing penetration with power electronic devices such as wind turbines photovoltaics and batteries A simulation and optimization environment for such low inertia systems is created It is investigated how accurate the models need to be to capture the prevailing modes An evolutionary algorithm tailored to optimization problems with computationally intensive fitness evaluation is proposed in order to optimized the controller parameters of grid forming and grid supporting distributed generators It becomes apparent that microgrids dominated by grid forming inverters are very stable systems when well designed and optimized controllers are used Model simplifications such as the neglect of inner control loops of inverters must be examined carefully as they can lead to an inaccurate stability assessment **Metaheuristic and**

Evolutionary Computation: Algorithms and Applications Hasmat Malik, Atif Iqbal, Puneet Joshi, Sanjay Agrawal, Farhad Ilahi Bakhsh, 2020-10-08 This book addresses the principles and applications of metaheuristic approaches in engineering and related fields The first part covers metaheuristics tools and techniques such as ant colony optimization and Tabu search and their applications to several classes of optimization problems In turn the book s second part focuses on a wide variety of metaheuristics applications in engineering and or the applied sciences e g in smart grids and renewable energy In addition the simulation codes for the problems discussed are included in an appendix for ready reference Intended for researchers aspiring to learn and apply metaheuristic techniques and gathering contributions by prominent experts in the field the book offers readers an essential introduction to metaheuristics its theoretical aspects and applications **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

Advances in Integrated Energy Systems Design, Control and Optimization Josep M. Guerrero,Amjad Anvari-Moghaddam,2018-03-23 This book is a printed edition of the Special Issue Advances in Integrated Energy Systems Design Control and Optimization that was published in Applied Sciences

Engineering and Applied Sciences Optimization Nikos D. Lagaros,Manolis Papadrakakis,2015-05-22 The chapters which appear in this volume are selected studies presented at the First International Conference on Engineering and Applied Sciences Optimization OPT i Kos Greece 4 6 June 2014 and works written by friends former colleagues and students of the late Professor M G Karlaftis all in the area of optimization that he loved and published so much in himself The subject areas represented here range from structural optimization logistics transportation traffic and telecommunication networks to operational research metaheuristics multidisciplinary and multiphysics design optimization etc This volume is dedicated to the life and the memory of Professor Matthew G Karlaftis who passed away a few hours before he was to give the opening speech at OPT i All contributions reflect the warmth and genuine friendship which he enjoyed from his associates and show how much his scientific contribution has been appreciated He will be greatly missed and it is hoped that this volume will be received as a suitable memorial to his life and achievements

Particle Swarm Optimisation Jun Sun,Choi-Hong Lai,Xiao-Jun Wu,2016-04-19 Although the particle swarm optimisation PSO algorithm requires relatively few parameters and is computationally simple and easy to implement it is not a globally convergent algorithm In Particle Swarm Optimisation Classical and Quantum Perspectives the authors introduce their concept of quantum behaved particles inspired by quantum mechanics which leads to the quantum behaved particle swarm optimisation QPSO algorithm This globally convergent algorithm has fewer parameters a faster convergence rate and stronger searchability for complex problems The book presents the concepts of optimisation problems as well as random search methods for optimisation before discussing the principles of the PSO algorithm Examples illustrate how the PSO algorithm solves optimisation problems The authors also analyse the reasons behind the shortcomings of the PSO algorithm Moving on to the QPSO algorithm the authors give a thorough overview of the literature on QPSO describe the fundamental model for the QPSO algorithm and explore applications of the algorithm to solve typical optimisation problems They also discuss some advanced theoretical topics including the behaviour of individual particles global convergence computational complexity convergence rate and parameter selection The text closes with coverage of several real world applications including inverse problems optimal design of digital filters economic dispatch problems biological multiple sequence alignment and image processing MATLAB Fortran and C source codes for the main algorithms are provided on an accompanying downloadable resources Helping you numerically

solve optimisation problems this book focuses on the fundamental principles and applications of PSO and QPSO algorithms It not only explains how to use the algorithms but also covers advanced topics that establish the groundwork for understanding

Railway Engineering Technology V. M. Ravindra Kumar,K. P. Vineesh,Sunil Kumar Sharma,2025-09-30 This book presents advances in railway engineering including railway wheels wheel failure mechanisms innovations in railway track designs and axle failures It covers rail wheel traction characteristics under various environmental conditions for full scale test conditions including braking systems It provides an understanding of the applications of digital twin technology in railway systems predictive maintenance performance optimization and overall system efficiency It also emphasizes sustainable practices energy efficient technologies and environmental impact assessments Features Comprehensively reviews various aspects of railway engineering technology Discusses major failure mechanisms and various types of braking systems Covers the modernization of railways and high speed trains Explores emerging topics such as digital twin technology sustainable practices and autonomous technologies Includes case studies of railway component failures and accidents This book is aimed at researchers and professionals in railway and mechanical engineering as well as transportation systems

Applications of Evolutionary Computation Paul Kaufmann,Pedro A. Castillo,2019-04-10 This book constitutes the refereed proceedings of the 22nd International Conference on Applications of Evolutionary Computation EvoApplications 2019 held in Leipzig Germany in April 2019 co located with the Evo 2019 events EuroGP EvoCOP and EvoMUSART The 44 revised full papers presented were carefully reviewed and selected from 66 submissions They were organized in topical sections named Engineering and Real World Applications Games General Image and Signal Processing Life Sciences Networks and Distributed Systems Neuroevolution and Data Analytics Numerical Optimization Theory Benchmarks and Applications Robotics

Particle Swarm Optimization Maurice Clerc,2010-01-05 This is the first book devoted entirely to Particle Swarm Optimization PSO which is a non specific algorithm similar to evolutionary algorithms such as taboo search and ant colonies Since its original development in 1995 PSO has mainly been applied to continuous discrete heterogeneous strongly non linear numerical optimization and it is thus used almost everywhere in the world Its convergence rate also makes it a preferred tool in dynamic optimization

Metaheuristics in Water, Geotechnical and Transport Engineering Xin-She Yang,Siamak Talatahari,Amir Hossein Alavi,2012-12-31 Due to an ever decreasing supply in raw materials and stringent constraints on conventional energy sources demand for lightweight efficient and low cost structures has become crucially important in modern engineering design This requires engineers to search for optimal and robust design options to address design problems that are often large in scale and highly nonlinear making finding solutions challenging In the past two decades metaheuristic algorithms have shown promising power efficiency and versatility in solving these difficult optimization problems This book examines the latest developments of metaheuristics and their applications in water geotechnical and transport engineering offering practical case studies as examples to demonstrate real world applications

Topics cover a range of areas within engineering including reviews of optimization algorithms artificial intelligence cuckoo search genetic programming neural networks multivariate adaptive regression swarm intelligence genetic algorithms ant colony optimization evolutionary multiobjective optimization with diverse applications in engineering such as behavior of materials geotechnical design flood control water distribution and signal networks This book can serve as a supplementary text for design courses and computation in engineering as well as a reference for researchers and engineers in metaheuristic optimization in civil engineering and computational intelligence Provides detailed descriptions of all major metaheuristic algorithms with a focus on practical implementation Develops new hybrid and advanced methods suitable for civil engineering problems at all levels Appropriate for researchers and advanced students to help to develop their work

Application of Big Data, Blockchain, and Internet of Things for Education Informatization Yinjun Zhang, Nazir Shah, 2024-06-30 The five volume set LNICST 580 584 constitutes the proceedings of the Third EAI International Conference on Application of Big Data Blockchain and Internet of Things for Education Informatization BigIoT EDU 2023 held in Liuzhou China during August 29 31 2023 The 272 full papers presented in these proceedings were carefully reviewed and selected from 718 submissions With a primary focus on research fields such as Digitization of education Smart classrooms and Massive Online Open Courses MOOCs these papers are organized in the following topical sections across the five volumes Part I Application of data mining in smart education Application of intelligent algorithms in English teaching Part II Application of decision tree algorithm in intelligent management system of universities Research on the application of Big data in smart teaching Part III Exploration of the application of computer aided technology in intelligent translation Application of neural network algorithms in intelligent teaching Application of artificial intelligence algorithms in the field of smart education Part IV Research on smart teaching in deep learning Research and application of recommendation algorithms in personalized intelligent education Application of cloud computing in intelligent teaching resource library Application research of computer aided online intelligent teaching Part V Application and practice of new media in smart teaching Application of clustering algorithm in intelligent education resource library Application of association rule algorithm in intelligent education system

Handbook of Metaheuristics Michel Gendreau, Jean-Yves Potvin, 2018-09-20 The third edition of this handbook is designed to provide a broad coverage of the concepts implementations and applications in metaheuristics The book's chapters serve as stand alone presentations giving both the necessary underpinnings as well as practical guides for implementation The nature of metaheuristics invites an analyst to modify basic methods in response to problem characteristics past experiences and personal preferences and the chapters in this handbook are designed to facilitate this process as well This new edition has been fully revised and features new chapters on swarm intelligence and automated design of metaheuristics from flexible algorithm frameworks The authors who have contributed to this volume represent leading figures from the metaheuristic community and are responsible for pioneering contributions to the fields

they write about Their collective work has significantly enriched the field of optimization in general and combinatorial optimization in particular Metaheuristics are solution methods that orchestrate an interaction between local improvement procedures and higher level strategies to create a process capable of escaping from local optima and performing a robust search of a solution space In addition many new and exciting developments and extensions have been observed in the last few years Hybrids of metaheuristics with other optimization techniques like branch and bound mathematical programming or constraint programming are also increasingly popular On the front of applications metaheuristics are now used to find high quality solutions to an ever growing number of complex ill defined real world problems in particular combinatorial ones This handbook should continue to be a great reference for researchers graduate students as well as practitioners interested in metaheuristics

19th European Symposium on Computer Aided Process Engineering Jacek Jezowski, Jan Thullie, 2009-06-12 The 19th European Symposium on Computer Aided Process Engineering contains papers presented at the 19th European Symposium of Computer Aided Process Engineering ESCAPE 19 held in Cracow Poland June 14 17 2009 The ESCAPE series serves as a forum for scientists and engineers from academia and industry to discuss progress achieved in the area of CAPE CD ROM that accompanies the book contains all research papers and contributions International in scope with guest speeches and keynote talks from leaders in science and industry Presents papers covering the latest research key top areas and developments in computer aided process engineering CAPE *Applications of Flower Pollination Algorithm and its Variants* Nilanjan Dey, 2021-03-17 This book presents essential concepts of traditional Flower Pollination Algorithm FPA and its recent variants and also its application to find optimal solution for a variety of real world engineering and medical problems Swarm intelligence based meta heuristic algorithms are extensively implemented to solve a variety of real world optimization problems due to its adaptability and robustness FPA is one of the most successful swarm intelligence procedures developed in 2012 and extensively used in various optimization tasks for more than a decade The mathematical model of FPA is quite straightforward and easy to understand and enhance compared to other swarm approaches Hence FPA has attracted attention of researchers who are working to find the optimal solutions in variety of domains such as N dimensional numerical optimization constrained unconstrained optimization and linear nonlinear optimization problems Along with the traditional bat algorithm the enhanced versions of FPA are also considered to solve a variety of optimization problems in science engineering and medical applications

Research Advancements in Smart Technology, Optimization, and Renewable Energy Vasant, Pandian, Weber, Gerhard, Punurai, Wonsiri, 2020-08-07 As environmental issues remain at the forefront of energy research renewable energy is now an all important field of study And as smart technology continues to grow and be refined its applications broaden and increase in their potential to revolutionize sustainability studies This potential can only be fully realized with a thorough understanding of the most recent breakthroughs in the field Research Advancements in Smart Technology Optimization and Renewable Energy is a collection

of innovative research that explores the recent steps forward for smart applications in sustainability Featuring coverage on a wide range of topics including energy assessment neural fuzzy control and biogeography this book is ideally designed for advocates policymakers engineers software developers academicians researchers and students *Advances in Electrical and Computer Technologies* Thangaprakash Sengodan,M. Murugappan,Sanjay Misra,2021-02-26 This book comprises select proceedings of the International Conference on Advances in Electrical and Computer Technologies 2020 ICAECT 2020 The papers presented in this book are peer reviewed and cover latest research in electrical electronics communication and computer engineering Topics covered include smart grids soft computing techniques in power systems smart energy management systems power electronics feedback control systems biomedical engineering geo informative systems grid computing data mining image and signal processing video processing computer vision pattern recognition cloud computing pervasive computing intelligent systems artificial intelligence neural network and fuzzy logic broad band communication mobile and optical communication network security VLSI embedded systems optical networks and wireless communication The volume can be useful for students and researchers working in the different overlapping areas of electrical electronics and communication engineering *International Conference on Water Resource and Environmental Protection* ,2014-07-23 The 2014 International Conference on Water Resource and Environmental Protection WREP2014 aims to bring researchers engineers and students to the areas of Water Resource and Environmental Protection WREP2014 features unique mixed topics of Water Resource and Environmental Protection in the context of building healthier ecology and environment The conference will provide a forum for sharing experiences and original research contributions on those topics Researchers and practitioners are invited to submit their contributions to WREP2014 This proceeding tends to collect the up to date comprehensive and worldwide state of art knowledge on water resource and environmental protection All of accepted papers were subjected to strict peer reviewing by 24 expert referees The papers have been selected for this proceedings based on originality significance and clarity for the purpose of the conference The selected papers and additional late breaking contributions to be presented will make an exciting technical program on WREP2014 conference The conference program is extremely rich featuring high impact presentation We hope this conference will not only provide the participants a broad overview of the latest research results on water resource and environmental protection but also provide the participants a significant platform to build academic connections **Advances in Precision Instruments and Optical Engineering** Guixiong Liu,Fengjie Cen,2022-04-21 This book highlights the new technologies and applications presented at the 2021 International Conference on Precision Instruments and Optical Engineering held in Chengdu China from 25 to 27 August 2021 The conference aimed to provide a platform for researchers and professionals to share research findings discuss cutting edge technologies promote collaborations and fuel the industrial transition of new technologies The invited and contributed papers covered recent developments in optoelectronic devices nanophotonic research optoelectronic materials precision

instruments intelligent instruments laser technology optical spectroscopy and other optical engineering topics The book is intended for researchers engineers and advanced students interested in precision instruments and optical engineering and their applications in diverse fields Stability of Geotechnical Structures: Theoretical and Numerical Analysis Y.M. Cheng, H. Wong, C.J. Leo, C.K. Lau, 2016-09-02 Stability of Geotechnical Structures Theoretical and Numerical Analysis is a comprehensive introduction to the theory and applications of soil mechanics in structural stability Chapters explain different mathematical methods to calculate structural stability metrics Topics covered in the book include upper and lower bound methods kinematic methods slip line methods limit analysis limit equilibrium and element methods Additionally fundamental principles in plasticity formulation are discussed in sufficient details and sample computer programs are included to aid the readers in learning the presented theoretical material The book also features worked examples for easy understanding Theoretical material in the book is based on actual research conducted by the authors with additional literature reviews and discussions about important topics in geotechnical engineering Stability of Geotechnical Structures Theoretical and Numerical Analysis is suitable for students undertaking advanced foundation or geotechnical engineering courses at undergraduate or postgraduate levels Frontiers in Civil Engineering brings scholarly references on all topics related to civil engineering to the fore Each volume presents thematic information on theoretical frameworks and practical applications in the field including but not limited to soil and rock mechanics flood control road and railway engineering and the construction of large buildings bridges and dams The series aims to compile and present useful information in the form of handbooks and monographs for students involved in technical courses in addition to providing updated references for professional engineers about the latest trends in civil engineering

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