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Application of Evolutionary Algorithms for Multi-objective Optimization in VLSI and Embedded Systems

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Application Of Evolutionary Algorithms For Multi Objective Optimization In Vlsi And Embedded Systems

Krzysztof Cpałka

Application Of Evolutionary Algorithms For Multi Objective Optimization In Vlsi And Embedded Systems:

Application of Evolutionary Algorithms for Multi-objective Optimization in VLSI and Embedded Systems M.C. Bhuvaneswari,2014-08-20 This book describes how evolutionary algorithms EA including genetic algorithms GA and particle swarm optimization PSO can be utilized for solving multi objective optimization problems in the area of embedded and VLSI system design Many complex engineering optimization problems can be modelled as multi objective formulations This book provides an introduction to multi objective optimization using meta heuristic algorithms GA and PSO and how they can be applied to problems like hardware software partitioning in embedded systems circuit partitioning in VLSI design of operational amplifiers in analog VLSI design space exploration in high level synthesis delay fault testing in VLSI testing and scheduling in heterogeneous distributed systems It is shown how in each case the various aspects of the EA namely its representation and operators like crossover mutation etc can be separately formulated to solve these problems This book is intended for design engineers and researchers in the field of VLSI and embedded system design The book introduces the multi objective GA and PSO in a simple and easily understandable way that will appeal to introductory readers **Design of Interpretable Fuzzy Systems** Krzysztof Cpałka,2017-01-31 This book shows that the term interpretability goes far beyond the concept of readability of a fuzzy set and fuzzy rules It focuses on novel and precise operators of aggregation inference and defuzzification leading to flexible Mamdani type and logical type systems that can achieve the required accuracy using a less complex rule base The individual chapters describe various aspects of interpretability including appropriate selection of the structure of a fuzzy system focusing on improving the interpretability of fuzzy systems designed using both gradient learning and evolutionary algorithms It also demonstrates how to eliminate various system components such as inputs rules and fuzzy sets whose reduction does not adversely affect system accuracy It illustrates the performance of the developed algorithms and methods with commonly used benchmarks The book provides valuable tools for possible applications in many fields including expert systems automatic control and robotics *Smart Embedded Systems and Applications* Saad Motahhir,2023-02-20 This book covers a wide range of challenges technologies and state of the art for the design development and realization of smart and complex embedded systems and their applications i e software and hardware development with the use of digital technologies and quality assurance for critical applications This book starts with automotive safety systems which is one of the major functional domains It discusses the importance of software in automotive systems followed by an insight into Automotive Software Standards ISO26262 and Autosar The book further discusses the use of Processor in the loop test for an adaptive trajectory tracking control for quadrotor UAVs It also illustrates the role of embedded systems in medical engineering Various innovative applications involving the concept of image processing and Internet of Things are also presented in this book The SoC Power Estimation is also investigated Finally a Review of the Hardware Software Partitioning Algorithms with some future works have been presented this book is intended for

academicians researchers and industrialists **Innovations in Smart Cities and Applications** Mohamed Ben Ahmed,Anouar Abdelhakim Boudhir,2018-03-21 This proceedings book showcases the latest research work presented at the Second Edition of the Mediterranean Symposium on Smart City Application SCAMS 2017 which was held in Tangier Morocco on October 15 27 2017 It presents original research results new ideas and practical development experiences that concentrate on both theory and practice It includes papers from all areas of Smart City Applications e g Smart Mobility Big Data Smart Grids Smart Homes and Buildings clouds crowds mashups social networks and security issues The conference stimulated cutting edge research discussions among pioneering researchers scientists industrial engineers and students from all around the world The topics covered in this book also focus on innovative issues at the international level by bringing together experts from different countries The scope of SCAMS 2017 included methods and practices that combine various emerging internetworking and data technologies to capture integrate analyze mine annotate and visualize data in a meaningful and collaborative manner A series of international workshops were organized as invited sessions during the SCAMS 2017 The 2nd International Workshop on Smart Learning Innovative EducationsThe 1st International Workshop on Smart HealthcareThe 1st International Workshop on Mathematics for Smart CityThe 1st International Workshop Industry 4 0 and Smart Manufacturing Recent Findings in Intelligent Computing Techniques Pankaj Kumar Sa,Sambit Bakshi,Ioannis K. Hatzilygeroudis,Manmath Narayan Sahoo,2018-11-04 This three volume book contains the Proceedings of 5th International Conference on Advanced Computing Networking and Informatics ICACNI 2017 The book focuses on the recent advancement of the broad areas of advanced computing networking and informatics It also includes novel approaches devised by researchers from across the globe This book brings together academic scientists professors research scholars and students to share and disseminate information on knowledge and scientific research works related to computing networking and informatics to discuss the practical challenges encountered and the solutions adopted The book also promotes translation of basic research into applied investigation and convert applied investigation into practice **Numerical Methods and Applications** Geno Nikolov,Natalia Kolkovska,Krassimir Georgiev,2019-01-21 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Conference on Numerical Methods and Applications NMA 2018 held in Borovets Bulgaria in August 2018 The 56 revised regular papers presented were carefully reviewed and selected from 61 submissions for inclusion in this book The papers are organized in the following topicalsections numerical search and optimization problem driven numerical method motivation and application numerical methods for fractional diffusion problems orthogonal polynomials and numerical quadratures and Monte Carlo and Quasi Monte Carlo methods Recent Advances in Evolutionary Multi-objective Optimization Slim Bechikh,Rituparna Datta,Abhishek Gupta,2016-08-09 This book covers the most recent advances in the field of evolutionary multiobjective optimization With the aim of drawing the attention of up and coming scientists towards exciting prospects at the forefront of

computational intelligence the authors have made an effort to ensure that the ideas conveyed herein are accessible to the widest audience The book begins with a summary of the basic concepts in multi objective optimization This is followed by brief discussions on various algorithms that have been proposed over the years for solving such problems ranging from classical mathematical approaches to sophisticated evolutionary ones that are capable of seamlessly tackling practical challenges such as non convexity multi modality the presence of multiple constraints etc Thereafter some of the key emerging aspects that are likely to shape future research directions in the field are presented These include optimization in dynamic environments multi objective bilevel programming handling high dimensionality under many objectives and evolutionary multitasking In addition to theory and methodology this book describes several real world applications from various domains which will expose the readers to the versatility of evolutionary multi objective optimization *Test Generation of Crosstalk Delay Faults in VLSI Circuits* S. Jayanthy,M.C. Bhuvaneswari,2018-09-20 This book describes a variety of test generation algorithms for testing crosstalk delay faults in VLSI circuits It introduces readers to the various crosstalk effects and describes both deterministic and simulation based methods for testing crosstalk delay faults The book begins with a focus on currently available crosstalk delay models test generation algorithms for delay faults and crosstalk delay faults before moving on to deterministic algorithms and simulation based algorithms used to test crosstalk delay faults Given its depth of coverage the book will be of interest to design engineers and researchers in the field of VLSI Testing

Evolutionary Algorithms for Embedded System Design Rolf Drechsler,Nicole Drechsler,2012-12-06 Evolutionary Algorithms for Embedded System Design describes how Evolutionary Algorithm EA concepts can be applied to circuit and system design an area where time to market demands are critical EAs create an interesting alternative to other approaches since they can be scaled with the problem size and can be easily run on parallel computer systems This book presents several successful EA techniques and shows how they can be applied at different levels of the design process Starting on a high level abstraction where software components are dominant several optimization steps are demonstrated including DSP code optimization and test generation Throughout the book EAs are tested on real world applications and on large problem instances For each application the main criteria for the successful application in the corresponding domain are discussed In addition contributions from leading international researchers provide the reader with a variety of perspectives including a special focus on the combination of EAs with problem specific heuristics Evolutionary Algorithms for Embedded System Design is an excellent reference for both practitioners working in the area of circuit and system design and for researchers in the field of evolutionary concepts Evolutionary Multi-Criterion Optimization Eckart Zitzler,Kalyanmoy Deb,Lothar Thiele,Carlos Coello Coello,David Corne,2003-06-29 This book constitutes the refereed proceedings of the First International Conference on Multi Criterion Optimization EMO 2001 held in Zurich Switzerland in March 2001 The 45 revised full papers presented were carefully reviewed and selected from a total of 87 submissions Also included are two tutorial surveys and two

invited papers The book is organized in topical sections on algorithm improvements performance assessment and comparison constraint handling and problem decomposition uncertainty and noise hybrid and alternative methods scheduling and applications of multi objective optimization in a variety of fields

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