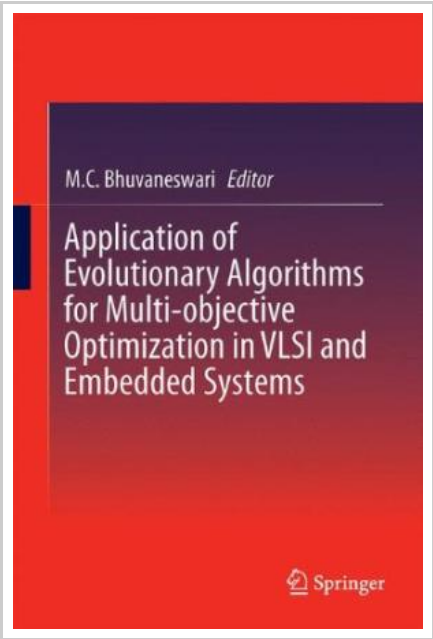

Application of Evolutionary Algorithms for Multi-objective Optimization in VLSI and Embedded Systems

By M. C. Bhuvaneswari

Springer-Verlag Gmbh Okt 2014, 2014. Buch. Book Condition: Neu. 241x161x17 mm. Neuware - 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. 174 pp. Englisch.

Reviews

This written book is excellent. It really is rally fascinating throgh studying period. You are going to like the way the writer write this publication.

-- ***Hadley Ullrich***

Just no words to explain. it was actually writtern quite perfectly and valuable. Your daily life period will be convert as soon as you total looking at this pdf.

-- ***Mr. Brook Marquardt Jr.***