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PowerCon 2002 Models and Algorithms for Biomolecules and Molecular Networks Theory of Computing Approximation Algorithms for Clustering Streams and Large Data Sets 38th Aerospace Sciences Meeting and Exhibit Software Abstracts for Engineers IEEE 1985 Proceedings of the International Conference on Cybernetics and Society, Tucson, Arizona, November 12-15, 1985 Microprogramming and Firmware Engineering Methods Evolutionary Algorithms in Engineering Applications Decomposition-based Assembly Synthesis for In-process Dimensional Adjustability and Proper Constraint Adaptive Structures and Composite Materials IBZIJCAI-05 Mathematical Reviews Function Approximation and Learning by Neural Networks Journal of the American Statistical Association Foundations of Genetic Algorithms 2001 (FOGA 6) Heuristic Search and Its Transit Applications Control of Power Plants and Power Systems Multiobjective Heuristic Search ECAI 92 Variants of Evolutionary Algorithms for Real-World Applications Künstliche Intelligenz Uncertainty in Artificial Intelligence Advanced Solutions in Power Systems IEEE Region 5 Conference Dissertation Abstracts International Computer & Control Abstracts Naval Research Logistics Proceedings of the Institution of Civil Engineers Learning Probability Distributions The Structure of Solutions in the Iterated Prisoner's Dilemma 1988 IEEE Region 5 Conference Numerical Models in Geomechanics Developments in Neural Networks and Evolutionary Computing for Civil and Structural Engineering Algorithmen in CDatenstrukturen und Algorithmen Micro 11 Proceedings of the Fifth International Conference on Genetic Algorithms Journal of Geotechnical Engineering

[PowerCon 2002](#)

[Models and Algorithms for Biomolecules and Molecular Networks](#)

[Theory of Computing](#)

[Approximation Algorithms for Clustering Streams and Large Data Sets](#)

By providing expositions to modeling principles, theories, computational solutions, and open problems, this reference presents a full scope on relevant biological phenomena, modeling frameworks, technical challenges, and algorithms. Up-to-date developments of structures of biomolecules, systems biology, advanced models, and algorithms Sampling techniques for estimating evolutionary rates and generating molecular structures Accurate computation of probability landscape of stochastic networks, solving discrete chemical master equations End-of-chapter exercises

[38th Aerospace Sciences Meeting and Exhibit](#)

[Software Abstracts for Engineers](#)

Evolutionary Algorithms (EAs) are population-based, stochastic search algorithms that mimic natural evolution. Due to their ability to find excellent solutions for conventionally hard and dynamic problems within acceptable time, EAs have attracted interest from many researchers and practitioners in recent years. This book "Variants of Evolutionary Algorithms for Real-World Applications" aims to promote the practitioner's view on EAs by providing a comprehensive discussion of how

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EAs can be adapted to the requirements of various applications in the real-world domains. It comprises 14 chapters, including an introductory chapter re-visiting the fundamental question of what an EA is and other chapters addressing a range of real-world problems such as production process planning, inventory system and supply chain network optimisation, task-based jobs assignment, planning for CNC-based work piece construction, mechanical/ship design tasks that involve runtime-intense simulations, data mining for the prediction of soil properties, automated tissue classification for MRI images, and database query optimisation, among others. These chapters demonstrate how different types of problems can be successfully solved using variants of EAs and how the solution approaches are constructed, in a way that can be understood and reproduced with little prior knowledge on optimisation.

[IEEE 1985 Proceedings of the International Conference on Cybernetics and Society, Tucson, Arizona, November 12-15, 1985](#)

[Microprogramming and Firmware Engineering Methods](#)

ECAI 92 August 3-7, 1992, Vienna, Austria Proceedings Edited by Bernd Neumann University of Hamburg, Germany The 10th European Conference on Artificial Intelligence, held in Austria, August 1992, attracted an unusually large number of contributed papers, reflecting the scope and strength of current AI research. Almost 200 selected papers, covering essential areas of AI, are presented in this volume. Such core subjects as Automated Reasoning and Knowledge Representation are given extensive treatment. Attention is also focused on important application issues and real-world problems.

[Evolutionary Algorithms in Engineering Applications](#)

[Decomposition-based Assembly Synthesis for In-process Dimensional Adjustability and Proper Constraint](#)

[Adaptive Structures and Composite Materials](#)

Paperback. These proceedings contain the papers presented at the IFAC Symposium on Control of Power Plants and Power Systems (SIPOWER'95) held in Cancun, Mexico on 6-8 December 1995. The aim of the symposium was to lessen the gap between academic groups and industry by using the obvious interaction between power plants and power networks and the tools common to both to foster communication and encourage a more synergetic relationship. The symposium was divided equally between power plants and power systems and 104 papers were presented, representing all five continents and reflecting the international nature of the meeting. The technical sessions were organized following two main criteria: the technology used and the object being studied. Many papers fell into both categories and various topics were covered, but artificial intelligence was by far the most pervasive. There were also two plenary sessions on Control Centers and on Power Plant

[IBZ](#)

Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC-HVDC and VSC-HVDC technologies, the second part presents the FACTS devices, and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with

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the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems, from planning and monitoring to operation and control Each chapter is carefully edited, with drawings and illustrations that helps the reader to easily understand the principles of operation or application Advanced Solutions in Power Systems: HVDC, FACTS, and Artificial Intelligence is written for graduate students, researchers in transmission and distribution networks, and power system operation. This book also serves as a reference for professional software developers and practicing engineers.

[IJCAI-05](#)

Includes a selection of papers presented at the Fourth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering, held at Cambridge, England, 28-30 August 1995.

[Mathematical Reviews](#)

[Function Approximation and Learning by Neural Networks](#)

[Journal of the American Statistical Association](#)

[Foundations of Genetic Algorithms 2001 \(FOGA 6\)](#)

This volume contains papers accepted for presentation at the Fifteenth Conference on Uncertainty in Artificial Intelligence (UAI99) held at the Royal Institute of Technology (KTH) in Stockholm, Sweden from July 30 through August 1, 1999. This conference continues a 15-year tradition of providing an international forum for exchange of ideas on problems of reasoning, under uncertainty. During those 15 years, UAI has moved from a little-noticed niche at the edge of the field, solidly into the mainstream of artificial intelligence research and practice. Research first presented at UAI has contributed significantly to advances in a number of related fields and has found application in a wide variety of domains. The UAI conference has acquired a reputation for excellence, and the proceedings have become an important reference source for high-quality work in the field.

[Heuristic Search and Its Transit Applications](#)

[Control of Power Plants and Power Systems](#)

[Multiobjective Heuristic Search](#)

[ECAI 92](#)

[Variants of Evolutionary Algorithms for Real-World Applications](#)

[Künstliche Intelligenz](#)

Foundations of Genetic Algorithms, Volume 6 is the latest in a series of books that records the prestigious Foundations of Genetic Algorithms Workshops, sponsored and organised by the International Society of Genetic Algorithms specifically to address theoretical publications on genetic algorithms and classifier systems. Genetic algorithms are one of the more successful machine learning methods. Based on the metaphor of natural evolution, a genetic algorithm searches the available information in any given task and seeks the optimum solution by replacing weaker populations with stronger ones. Includes research from academia, government laboratories, and industry Contains high calibre papers which have been extensively reviewed Continues the tradition of presenting not only current theoretical work but also issues that could shape future research in the field Ideal for researchers in machine learning, specifically those involved with evolutionary computation

[Uncertainty in Artificial Intelligence](#)

[Advanced Solutions in Power Systems](#)

[IEEE Region 5 Conference](#)

Solutions to most real-world optimization problems involve a trade-off between multiple conflicting and non-commensurate objectives. Some of the most challenging ones are area-delay trade-off in VLSI synthesis and design space exploration, time-space trade-off in computation, and multi-strategy games. Conventional search techniques are not equipped to handle the partial order state spaces of multiobjective problems since they inherently assume a single scalar objective function. Multiobjective heuristic search techniques have been developed to specifically address multicriteria combinatorial optimization problems. This text describes the multiobjective search model and develops the theoretical foundations of the subject, including complexity results . The fundamental algorithms for three major problem formulation schemes, namely state-space formulations, problem-reduction formulations, and game-tree formulations are developed with the support of illustrative examples. Applications of multiobjective search techniques to synthesis problems in VLSI, and operations research are considered. This text provides a complete picture on contemporary research on multiobjective search, most of which is the contribution of the authors.

[Dissertation Abstracts International](#)

[Computer & Control Abstracts](#)

[Naval Research Logistics](#)

[Proceedings of the Institution of Civil Engineers](#)

[Learning Probability Distributions](#)

[The Structure of Solutions in the Iterated Prisoner's Dilemma](#)

[1988 IEEE Region 5 Conference](#)

[Numerical Models in Geomechanics](#)

[Developments in Neural Networks and Evolutionary Computing for Civil and Structural Engineering](#)

Evolutionary algorithms are general-purpose search procedures based on the mechanisms of natural selection and population genetics. They are appealing because they are simple, easy to interface, and easy to extend. This volume is concerned with applications of evolutionary algorithms and associated strategies in engineering. It will be useful for engineers, designers, developers, and researchers in any scientific discipline interested in the applications of evolutionary algorithms. The volume consists of five parts, each with four or five chapters. The topics are chosen to emphasize application areas in different fields of engineering. Each chapter can be used for self-study or as a reference by practitioners to help them apply evolutionary algorithms to problems in their engineering domains.

[Algorithmen in C](#)

Effiziente Algorithmen und Datenstrukturen sind ein zentrales Thema der Informatik. Beide Themen sind untrennbar miteinander verknüpft, denn Algorithmen arbeiten auf Datenstrukturen und Datenstrukturen enthalten wiederum Algorithmen als Komponenten. Dieses Buch vermittelt grundlegende Lösungsverfahren zu den wichtigsten Problembereichen bei der Arbeit mit Datenstrukturen und Algorithmen. Leser lernen neue Algorithmen zu entwerfen und ihre Kosten in Bezug auf Laufzeit und Speicherplatz zu analysieren. Die Autoren führen in programmiersprachliche Konzepte für Datenstrukturen ein und erläutern Datentypen, die die Bausteine für die Implementierung komplexer Algorithmen und Datenstrukturen bilden. Neben der Darstellung von Sortieralgorithmen und Graphen setzt das Buch mit Kapiteln zu geometrischen Algorithmen und Techniken zur Kürzeste-Wege-Suche mittels Kontraktionshierarchien einige besondere Schwerpunkte. Jedes Kapitel schließt mit Aufgaben und Literaturhinweisen für alle, die die Thematik vertiefen wollen. Alle Programmbeispiele in dem Buch sind in Java formuliert. Grundlage des Buchs sind Veranstaltungen zu Datenstrukturen und zu geometrischen Algorithmen, die Ralf Hartmut Güting seit vielen Jahren an der Fernuniversität Hagen anbietet. Der Stoff umfasst eine einsemestrige vierstündige Vorlesung. Für die Neuauflage wurde das Lehrbuch erweitert und aktualisiert. Es richtet sich an Softwareentwickler und dient als Lehrbuch im Studiengang Informatik.

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