Verilog Digital Computer Design Algorithms Into Hardware

Analog Layout SynthesisEvolutionary Algorithms in Engineering ApplicationsDesign Paradigm for Implementing Robotic Control Algorithms in ASICArtificial Intelligence in Chemical EngineeringLectures in Parallel ComputationDesign of Hashing AlgorithmsThird International Workshop on Software Specification and DesignProceedings of the ... ASME Design Engineering Technical ConferencesAutomated Design and Optimization of Wire Antennas Using Genetic AlgorithmsComputer Logic DesignProceedings of the 1990 ACM SIGMOD International Conference on Management of DataApplication of the Genetic Algorithm for Computer-aided Design of VLSI LayoutAlgorithms in CComputing in Civil EngineeringConference ProceedingsAdvances in Parallel and Vector Processing for Structural MechanicsJournal of AircraftUsing PascalAdvanced Software Design TechniquesICASSP '95 Helmut E. Graeb Dipankar Dasgupta Steven S. Leung Farooq Sher Alan Gibbons Josef Pieprzyk Derek Scott Linden M. Morris Mano Hector Garcia-Molina Khushro D. Shahookar Robert Sedgewick B. H. V. Topping David D. Riley Robert J. Rader

integrated circuits are fundamental electronic components in biomedical automotive and many other technical systems a small yet crucial part of a chip consists of analog circuitry this part is still in large part designed by hand and therefore represents not only a bottleneck in the design flow but also a permanent source of design errors responsible for re designs costly in terms of wasted test chips and in terms of lost time to market layout design is the step of the analog design flow with the least support by commercially available computer aided design tools this book provides a survey of promising new approaches to automated analog layout design which have

been described recently and are rapidly being adopted in industry

evolutionary algorithms an overview robust encodings in genetic algorithms genetic engineering and design problems the generation of form using an evolutionary approach evolutionary optimization of composite structures flaw detection and configuration with genetic algorithms a genetic algorithm approach for river management hazards in genetic design methodologies the identification and characterization of workload classes lossless and lossy data compression database design with genetic algorithms designing multiprocessor scheduling algorithms using a distributed genetic algorithm system prototype based supervised concept learning using genetic algorithms prototyping intelligent vehicle modules using evolutionary algorithms gate level evolvable hardware empirical study and application physical design of vlsi circuits and the application of genetic algorithms statistical generalization of performance related heuristcs for knowledge lean applications optimal scheduling of thermal power generation using evolutionary algorithms genetic algorithms and genetic programming for control global structure evolution and local parameter learning for control system model reductions adaptive recursive filtering using evolutionary algorithms numerical techniques for efficient sonar bearing and range searching in the near field using genetic algorithms signal design for radar imaging in radar astronomy genetic optimization evolutionary algorithms in target acquisition and sensor fusion strategies for the integration of evolutionary adaptive search with the engineering design process identification of mechanical inclusions geneas a robust optimal design technique for mechanical component design genetic algorithms for optimal cutting practical issues and recent advances in job and open shop scheduling the key steps to achieve mass customization

artificial intelligence in chemical engineering explores the integration of artificial intelligence ai into various facets of chemical engineering the book introduces historical information highlights current state and trends in ai applications and discusses challenges and opportunities within the field foundational principles of ai and machine learning are thoroughly covered giving readers a solid understanding of basic ai principles machine learning algorithms and the crucial processes of model training and validation the book then delves into the critical phase of data acquisition and preprocessing for ai models addressing strategies for data collection ensuring data quality and techniques for feature engineering and selection subsequent chapters cover a wide spectrum of ai applications in chemical engineering from supervised and unsupervised learning for process modeling to the advanced realm of deep learning applications this book explores neural networks convolutional and recurrent architectures and their real world applications in process optimization and analysis navigates the dynamic intersection of ai and chemical engineering covering ethical considerations interdisciplinary applications and ai s impact on safety sustainability and innovation bridges the gap between policy and implementation of ai in chemical engineering facilitating a harmonious integration of ai technologies and fostering responsible and effective use within the chemical engineering industry offers a forward looking approach to guide professionals researchers and students in navigating the dynamic and transformative future of ai in chemical engineering

the foundations of parallel computation especially the efficiency of computation are the concern of this book distinguished international researchers have contributed fifteen chapters which together form a coherent stream taking the reader who has little prior knowledge of the field to a position of being familiar with leading edge issues the book may also function as a source of teaching material and reference for researchers the first part is devoted to the parallel random access machine p ram model of parallel computation the initial chapters justify and define the model which is then used for the development of algorithm design in a variety of application areas such as deterministic algorithms randomisation and algorithm resilience the second part deals with distributed memory models of computation the question of efficiently implementing p ram algorithms within these models is addressed as are the immensely interesting prospects for general purpose parallel computation

a genetic algorithm ga has been used in conjunction with the numerical electromagnetics code version 2 nec2 to create and optimize atypical wire antenna designs with impressive characteristics antenna design parameters are encoded into an ordered series of numbers and or symbols analogous to a biological chromosome a cost function that quantifies how well a design meets the engineer s specifications is created the ga uses these to generate and evaluate a population of designs the most successful designs are then promoted and mixed through mating and mutation while poor designs are removed this process difficult to trap in local minima continues until convergence criteria are met generally yielding excellent designs with no user intervention or initial guesses three antennas have been optimized a monopole loaded with a modified folded dipole the yagi antenna and the crooked wire genetic antenna prior study of the loaded monopole had shown hemispherical coverage was possible the ga found an asymmetric loaded monopole with an average variation in gain over the hemisphere of only 0 4db confirmed by measurement ga optimized yagi antennas surpassed the gain of conventional yagis by about 1db improvement also confirmed by measurement the ga designed a yagi with a beamwidth of 50 deg 60 deg sidelobes nearly 25db down and a 14 bandwidth specifications difficult to achieve using conventional techniques the crooked wire genetic antenna is several wires joined in series locations and lengths are determined by the ga optimization for hemispherical coverage with right hand circular polarization rhcp produced highly unusual shapes unrealizable using a conventional approach rhcp hemispherical coverage was achieved with less than 4db variation measurements verify the results

the proceedings of a conference on the management of data the book contains 37 selected papers and summaries of panel discussions and video presentations covering new ideas in database technology

introduction principles of algorithm analysis elementary data structures abstract data types recursion and trees elementary sorting methods quicksort merging and mergesort priority queues and heapsort radix sorting special purpose sorts symbol tables and bsts balanced trees hashing radix search external searching index

includes a selection of papers that were presented at the second international conference on computational structures technology held in athens greece from 30 august 1 september 1994

providing the essential tools and techniques of computer science this textbook contains in depth coverage of design principles featuring assertions preconditions postconditions and loop variants procedures are presented early and include parameter passage and scope of variables

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