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Book Review: Evolutionary Electronics: Automatic Design of ...

Automatic design of approximate circuits by means of multi-objective evolutionary algorithms Abstract: Recently, power efficiency has become the most important parameter of many real

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circuits. At the same time, a wide range of applications capable of tolerating imperfections has spread out especially in multimedia.

Automatic design of approximate circuits by means of multi ...

An Evolutionary Methodology for Automatic Design of Finite State Machines J. Manuel Colmenar , Alfredo Cuesta-Infante , José L. Risco-Martín , J. Ignacio Hidalgo C.E.S. Felipe II, Complutense University of Madrid, 28300 Aranjuez, Spain {jmcolmenar, alfredo.cuesta}@ajz.ucm.es Dept. of Computer Architecture and Automation, Complutense University of Madrid, 28040 Madrid, Spain {jlrisco, hidalgo ...

An evolutionary methodology for automatic design of finite ...

Thompson A. (1998) On the automatic design of robust electronics through artificial evolution. In: Sipper M., Mange D., Pérez-Urbe A. (eds) Evolvable Systems: From Biology to Hardware.

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On the automatic design of robust electronics through ...

A new approach for automatic synthesis of analog electronic circuits based on grammatical evolution is presented. Grammatical evolution is an evolutionary algorithm based on grammar which can generate code in any programming language and uses variable length linear binary strings.

Automatic design of analog electronic circuits using ...

With the increasing complexity of the electronic circuit automatic design, the traditional circuit design method already more and more with difficulty satisfied this kind of request. But unifies the programmable component and the evolutionary algorithms hardware may the dynamic change hardware's structure adapt the adverse circumstance, resume the damage of the function, the adaptation for the ...

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Electronic Circuit Automatic Design Based on Genetic ...

Get this from a library! Hardware evolution : automatic design of electronic circuits in reconfigurable hardware by Adrian Thompson. [Adrian Thompson] -- The Distinguished Dissertation series is published on behalf of the Conference of Professors and Heads of Computing and the British Computer Society, who annually select the best British PhD ...

Hardware evolution : automatic design of electronic ...

Right from the beginning, people have suggested using artificial evolution to design electronics automatically. Only recently, though, have suitable reconfigurable silicon chips become available that make it easy for artificial evolution to work with a real, physical, electronic medium: before them, experiments had to be done entirely in software simulations.

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Hardware Evolution: Automatic Design of Electronic ...

Automatic Component-Wise Design of Multiobjective Evolutionary Algorithms

Abstract: Multiobjective evolutionary algorithms (MOEAs) are typically proposed, studied, and applied as monolithic blocks with a few numerical parameters that need to be set.

Automatic Component-Wise Design of Multiobjective ...

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Hardware evolution : automatic design of electronic ...

Abstract. A novel approach for automatic design synthesis and optimization using evolutionary algorithms (EA) is introduced in the paper. The approach applies to component-based systems in

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general and is demonstrated with a heating, ventilating and air-conditioning (HVAC) systems problem.

Automatic Design Synthesis and Optimization of Component ...

Automatic Design of Microwave Components through Evolutionary Algorithms The design of microwave components for Electromagnetic Compatibility purposes (e.g., filters, splitters, combiners, circulators, etc.) is a challenging task because of the requirements that they must satisfy to fit industrial requirements.

Eledia - Automatic Design of Microwave Components through ...

Smart grid technology is the next step to the evolution of classical power grids, providing robustness, reliability, and security throughout the network, enabling real-time management and control. To achieve these goals, distributed computing (microgrid concept) and intelligent control

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algorithms, tailored to the nature and needs of the network under study, are necessary. To deal with the vast ...

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The evolution of designs in nature has been the inspiration for this thesis, which seeks to develop a framework for efficient automatic engineering design synthesis based on evolutionary methods. The design synthesis process is equated to an evolutionary process. Because of this, the same formalization for evolution, the evolution algorithm, is used as a design synthesis formalism.

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The automatic design of these algorithms seems timely, given the large literature accumulated over more than 40 years of research in the manual design of decision-tree induction algorithms. The proposed hyper-heuristic evolutionary algorithm, HEAD-DT, is extensively tested using 20 public UCI datasets and 10 microarray gene expression datasets.

Automatic Design of Decision-Tree Algorithms with ...

of evolutionary techniques within an

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automatic design environment. For this purpose, a simple, fast, and robust aerodynamic simulator has been developed and embedded within a design environment. The simulator is able to predict the performance of any turbine produced as an intermediate individual of the evolutionary process.

Automatic Evolutionary Design of Wind Turbine

Thompson A. (1998) Hardware Evolution: Automatic design of electronic circuits in reconfigurable hardware by artificial evolution. Distinguished dissertations series, Springer Verlag. ISBN 3-540-76253-1. Thompson A., Layzell P., Zebulum, R.S. (1999 ...

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