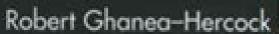
Applied Evolutionary Algorithms in Java









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Knowledge Driven Computing approaches More precisely the ultimate goal has been to collect new knowledge representation processing and computing paradigms which could be useful to practitioners involved in the area of discussion To this end contributions covering both theoretical aspects and practical solutions were preferred Small-Signal Stability Modelling and Optimization of Microgrids Simon Eberlein, 2021-08-31 The stability of power systems and microgrids is compromised by the increasing penetration with power electronic devices such as wind turbines photovoltaics and batteries A simulation and optimization environment for such low inertia systems is created It is investigated how accurate the models need to be to capture the prevailing modes An evolutionary algorithm tailored to optimization problems with computationally intensive fitness evaluation is proposed in order to optimized the controller parameters of grid forming and grid supporting distributed generators It becomes apparent that microgrids dominated by grid forming inverters are very stable systems when well designed and optimized controllers are used Model simplifications such as the neglect of inner control loops of inverters must be examined carefully as they can lead to an inaccurate stability assessment **Multi-Objective** Optimization in Computer Networks Using Metaheuristics Yezid Donoso, Ramon Fabregat, 2016-04-19 Metaheuristics are widely used to solve important practical combinatorial optimization problems Many new multicast applications emerging from the Internet such as TV over the Internet radio over the Internet and multipoint video streaming require reduced bandwidth consumption end to end delay and packet loss ratio It is necessary to design an **Applied Informatics Hector** Florez, Sanjay Misra, 2020-10-19 This book constitutes the thoroughly refereed papers of the Second International Conference on Applied Informatics ICAI 2020 held in Ota Nigeria in October 2020 The 35 full papers were carefully reviewed and selected from 101 submissions. The papers are organized in topical sections on artificial intelligence business process management cloud computing data analysis decision systems health care information systems human computer interaction image processing learning management systems software design engineering Bioinformatics Technologies Yi-Ping Phoebe Chen, 2005-01-18 Introductio to bioinformatics Overview of structural bioinformatics Database warehousing in bioinformatics Modeling for bioinformatics Pattern matching for motifs Visualization and fractal analysis of biological sequences Microarray data analysis Intelligent Control Systems with LabVIEWTM Pedro Ponce-Cruz, Fernando D. Ramírez-Figueroa, 2009-10-23 Intelligent Control with LabVIEWTM is a fresh and pragmatic approach to the understanding of a subject often clouded by too much mathematical theory It exploits the full suite of tools provided by LabVIEWTM showing the student how to design develop analyze and visualize intelligent control algorithms quickly and simply Block diagrams are used to follow the progress of an algorithm through the design process and allow seamless integration with hardware systems for rapid deployment in laboratory experiments This text delivers a thorough grounding in the main tools of intelligent control fuzzy logic systems artificial neural networks neuro fuzzy systems evolutionary methods and predictive methods Learning and teaching are facilitated by extensive use of worked examples end of chapter problems with separate

solutions and provision of intelligent control tools for LabVIEWTM Applied Parallel and Scientific Computing Kristján Jónasson,2012-02-16 The two volume set LNCS 7133 and LNCS 7134 constitutes the thoroughly refereed post conference proceedings of the 10th International Conference on Applied Parallel and Scientific Computing PARA 2010 held in Reykjav k Iceland in June 2010 These volumes contain three keynote lectures 29 revised papers and 45 minisymposia presentations arranged on the following topics cloud computing HPC algorithms HPC programming tools HPC in meteorology parallel numerical algorithms parallel computing in physics scientific computing tools HPC software engineering simulations of atomic scale systems tools and environments for accelerator based computational biomedicine GPU computing high performance computing interval methods real time access and processing of large data sets linear algebra algorithms and software for multicore and hybrid architectures in honor of Fred Gustavson on his 75th birthday memory and multicore issues in scientific computing theory and praxis multicore algorithms and implementations for application problems fast PDE solvers and a posteriori error estimates and scalable tools for high performance computing

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