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Evolutionary computing (EC) is an exciting development in Computer Science. It amounts to building, applying and studying algorithms based on the Darwinian principles of natural selection.

Evolutionary computing - cs.vu.nl

Along with the development of more powerful computer systems, design and optimization techniques such as evolutionary computing approaches have been developed allowing one to use computer systems for systematic design, optimization, and improvement of systems in the transportation and logistics domain.

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This book constitutes the refereed proceedings of three workshops on the application of evolutionary programming and algorithms in various domains; these workshops were held in conjunction with the 5th European Conference on Genetic Programming, EuroGP 2002, in Kinsale, Ireland, in April 2002.

Applications of Evolutionary Computing, EvoWorkshops 2008

The domain of evolutionary computation involves the study of the foundations and the applications of computational techniques based on the principles of natural evolution. Generally speaking, evolutionary techniques can be viewed either as search methods, or as optimization techniques [27, p.18]. An abstract task can be solved in

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EvoWorkshops: Workshops on Applications of Evolutionary Computation. Applications of Evolutionary Computing EvoWorkshops 2006: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoINTERACTION, EvoMUSART, and EvoSTOC, Budapest, Hungary, April 10-12, 2006. ... PDF. EvoBIO Contributions. Functional Classification of G-Protein Coupled Receptors, Based on Their ...

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Evolutionary Computation: from Genetic Algorithms to Genetic Programming Ajith Abraham1, ... putations from standard genetic algorithms to genetic programming, passing ... may involve simultaneous application of other algorithms (e.g., hybridiz-

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List of genetic algorithm applications - Wikipedia

In computer science, evolutionary computation is a family of algorithms for global optimization inspired by biological evolution, and the subfield of artificial intelligence and soft computing studying these algorithms. In technical terms, they are a family of population-based trial and error problem solvers with a metaheuristic or stochastic optimization character. In evolutionary computation, an initial set of candidate solutions is generated and iteratively updated. Each new generation is pro

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