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Multi-objective optimization (also known as multi-objective programming, vector optimization, multicriteria optimization, multiattribute optimization or Pareto optimization) is an area of multiple criteria decision making, that is concerned with mathematical optimization problems involving more than one objective function to be optimized simultaneously.

Multi-objective optimization - Wikipedia

Name License Description ALGLIB: GPL dual licensed (GPL/commercial) nonlinear optimization library (unconstrained, box, linearly, nonlinearly-constrained, nonlinear and QP problems), optionally using automatic differentiation. Cross-language: C++, C#.

List of optimization software - Wikipedia

A multiobjective optimization problem involves several conflicting objectives and has a set of Pareto optimal solutions. By evolving a population of solutions, multiobjective evolutionary algorithms (MOEAs) are able to approximate the Pareto optimal set in a single run.

Multiobjective evolutionary algorithms: A survey of the

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182 IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION, VOL. 6, NO. 2, APRIL 2002 A Fast and Elitist Multiobjective Genetic Algorithm: NSGA-II Kalyanmoy Deb, Associate Member, IEEE, Amrit Pratap, Sameer Agarwal, and T. Meyarivan

A fast and elitist multiobjective genetic algorithm: NSGA

The first annual "Humies" competition was held at the 2004 Genetic and Evolutionary Computation Conference (GECCO-2004) in Seattle. Entries were solicited for cash awards for human-competitive results that were produced by any form of genetic and evolutionary computation and that were published in the open literature during previous year.

Human-Competitive Awards 2004 – Present

OPTIMIZATION An introduction A. Astolì • First draft – September 2002 Last revision – September 2006

OPTIMIZATION An introduction

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Vol.7, No.3, May, 2004. Mathematical and Natural Sciences. Study on Bilinear Scheme and Application to Three-dimensional Convective Equation (Itaru Hataue and Yosuke Matsuda)

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