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Four multi-objective optimization techniques have been analyzed by describing their formulation, advantages and disadvantages: the MOGA method, the linear combination of weights method, the global criterion method and the ϵ -constraint method. The evaluation of these methods has been carried out by solving five selected benchmarks representative of the different possible Pareto fronts (concave, convex, linear, discontinuous) and particular attention has been paid to their effectiveness in ...

AN INTRODUCTION TO MULTIOBJECTIVE OPTIMIZATION TECHNIQUES

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Multi-objective optimization has been applied in many fields of science, including engineering, economics and logistics where optimal decisions need to be taken in the presence of trade-offs between two or more conflicting objectives. Minimizing cost while maximizing comfort while buying a car, and maximizing performance whilst minimizing fuel consumption and emission of pollutants of a vehicle are examples of multi-objective optimization problems involving two and three objectives ...

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