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A note on evolutionary algorithms and its applications.

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Summary: This paper introduces evolutionary algorithms with its applications in multi-objective optimization. Here elitist and non-elitist multiobjective evolutionary algorithms are discussed with their advantages and disadvantages. We also discuss constrained multiobjective evolutionary algorithms and their applications in various areas, such as finance, engineering, economics, chemistry, transportation etc.

Classification: N60 R40 K90 M10

Keywords: stochastic optimization methods; natural evolution; simulation; stochastic selection process; multi-objective optimization; research; evolutionary algorithms; multi-objective optimization; Pareto optimality; elitist; decision making; decision vectors; financial time series; prediction; economic modeling; artificial intelligence

<http://www.alm-online.net/images/ALM/journals/almij-volume8-1-april2013.pdf>