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Soft Computing Strategies in Multiobjective Optimization

Abstract: Traditional optimization methods applied to solve real life problems can experience local or unstable behaviour. Researchers have proposed recently non-traditional search and optimization methods based on natural phenomena like natural evolution, social behaviour, and annealing. This paper describes a meta-algorithm for multiobjective optimization. Finally, it is remarked that migration algorithms and bees' algorithms are good candidates for solving multiobjective optimization problems.

Keywords: multiobjective optimization, evolution strategies, natural evolution, social behaviour

AMS Classification: 90C99.