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A New Approach of Genetic Chromodynamics

ANCA GOG and DAN DUMITRESCU

ABSTRACT. Genetic Algorithms are general purpose optimization/search techniques relying on a biological metaphor. They usually detect a unique optimum, but many real world problems need multiple optima. Genetic Chromodynamics is a strategy for preventing premature convergence and detecting multiple optimal solutions. A new technique of applying genetic operators is proposed. The Parallel Mutation Based Genetic Chromodynamics (PMGC) improves the local search from the standard approach and combines it with the global search, by using an appropriate mutation strategy.

BABES-BOLYAI UNIVERSITY
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE,
DEPARTMENT OF COMPUTER SCIENCE,
CLUJ-NAPOCA, ROMANIA
E-mail address: anca@cs.ubbcluj.ro, ddumitr@cs.ubbcluj.ro