A multi-swarm cellular PSO based on clonal selection algorith dynamic environments

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ABSTRACT

Many real-world problems are dynamic optimization problems. In this case, the optima in the environ dynamically. Therefore, traditional optimization algorithms disable to track and find optima. In this pa multi-swarm cellular particle swarm optimization based on clonal selection algorithm (CPSOC) is prop dynamic environments. In the proposed algorithm, the search space is partitioned into cells by a cellu automaton. Clustered particles in each cell, which make a sub-swarm, are evolved by the particle swa optimization and clonal selection algorithm. Experimental results on Moving Peaks Benchmark demon superiority of the CPSOC its popular methods.

INDEX TERMS

Index Terms are available to subscribers and IEEE members.

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