Abstract

Many real-world problems involve simultaneous optimization of multiple objectives that often are competing. In such problems, the objectives to be optimized are normally in conflict with respect to each other, which means that there is no single solution for these problems and optimizing a particular solution with respect to a single objective can result in unacceptable results with respect to the other objectives. So the solution to this problem is to find a set of solutions, each of which satisfies the objectives at an acceptable level without being affected by any other solution. This review paper presents an overview of multi-objective optimization using
GA and PSO.

Reference

7. Xiaohui Hu, and Russell Eberhart, “Multi-objective Optimization Using Dynamic Neighborhood Particle Swarm Optimization”, 0-7803-7282-4/02/$10.00 02002 IEEE.
11. Zhan Si Jiang, Jia Wei Xiang and Hui Jiang, “Multi-objective Particle Swarm Optimization Method Based on Fitness Function and Sequence Approximate Model”, 978-0-7695-3899-0/09 $29.00 © 2009 IEEE DOI 10.1109/WGEC.2009.115.

Index Terms

Computer Science
Communications
Key words

- GA (Genetic Algorithm)
- PSO (Particle Swarm Optimization)