Cuckoo Search (CS) Optimization Algorithm for Solving Constrained Optimization

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Abstract : This paper presents the comparison results on the performance of the Cuckoo Search (CS) algorithm for constrained optimization problems. For constraint handling, CS algorithm uses penalty method. CS algorithm is tested on thirteen well-known test problems and the results obtained are compared to Particle Swarm Optimization (PSO) algorithm. Mean, best, median and worst values were employed for the analyses of performance.
Keywords : cuckoo search, particle swarm optimization, constrained optimization problems, penalty method
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