

عنوان مقاله:

using MOPSO method for solving resource constrained project scheduling with make-span, NPV and robustness criteria

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خلاصه مقاله:

Project-based management is becoming more and more important as a tool for improving the performance of organizations the problem of scheduling activities with precedence constraints (e.g.CPM/PERT methods) has been studied for a long time. More recently , with the increasing importance of resource constraints, the need for explicitly considering these constraints has also become evident. it is in this context that the resource constrained project scheduling problem(RCPSP) arises. although RCPSP is essentially a multi- objective issue, but generally it has been noticed as a single objective problem. in this paper, a multi- objective model of RCPSP is presented. we aim at obtaining good approximations of the set of non -dominated solutions of a problem, in an efficient way. we have applied multi-objective version of PSO to the resource constrained project scheduling problem, in order to minimize the make - span, maximize NPV and robustness

کلمات کلیدی:

multi-objective particle swarm optimization, resource constrained project scheduling. Multi-objective optimization

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