عنوان مقاله:

ROBUST RESOURCE-CONSTRAINED PROJECT SCHEDULING WITH UNCERTAIN-BUT-BOUNDED ACTIVITY DURATIONS AND CASH FLOWS II. SOUNDS OF SILENCE: A NEW SAMPLING-BASED HYBRID PRIMARY-SECONDARY CRITERIA HARMONY SEARCH METAHEURISTIC

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خلاصه مقاله:

In this paper, we present a new idea for robust project scheduling combined with a cost-oriented uncertainty investigation. The result of the new approach is a makespan minimal robust proactive schedule, which is immune against the uncertainties in the activity durations and which can be evaluated from a cost-oriented point of view on the set of the uncertain-but-bounded duration and cost parameters using a sampling-based approximation. In this paper, we assume that the sources of uncertainty are the variability of the activity durations and the cash flow values, and present an appropriate hybrid method, which is a combination of mathematical programming, metaheuristic and sampling-based elements, to cope with this "uncertainty in uncertainty" like real problem.

کلمات کلیدی:
project scheduling; scheduling under uncertainty; robustness

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