Abstract

Grid facilitates global computing infrastructure for user to consume the services over the network. To optimize the workflow grid execution, a robust multi-objective scheduling algorithm is needed. In this paper, we considered three conflicting objectives like execution time (makespan), total cost and reliability. We propose a multi-objective scheduling algorithm, using
R-NSGA-II approach based on evolutionary computing paradigm. Simulation results shows that the proposed algorithm generates multiple scheduling solutions near the Pareto optimal front with small computation overhead.

Reference


**Index Terms**

Computer Science Distributed Systems

**Key words**

Workflow Grid Scheduling Multi-objective Optimization

MOEA

Pareto dominance