

THE INVERSE PARALLEL MACHINE SCHEDULING PROBLEM WITH MINIMUM TOTAL COMPLETION TIME

Pham Hong Truong, Lu Xi Wen

TÓM TẮT:

In inverse scheduling problems, a job sequence is given and the objective is to determine the minimal perturbation to parameters, such as processing times or weights of jobs so that the given schedule becomes optimal with respect to a preselected objective function. In this paper we study the necessary and sufficient conditions for optimality of the total completion time problem on parallel machines and inverse scheduling problem of the total completion time objective on parallel machines in which the processing times are minimally adjusted, so that a given target job sequence becomes an optimal schedule.