

COMPLEXITY OF TWO-MACHINE FLOW SHOP SCHEDULING PROBLEM WITH A SINGLE SERVER AND EQUAL PROCESSING TIMES

Ling Shi and Xue-Guang Cheng

Abstract

We consider the problem of two-machine flow-shop scheduling with a single server and equal processing times, we show that this problem is *NP*-hard in the strong sense and present a simple greedy algorithm for it with worst-case bound 3/2.

Keywords and phrases: two-machine, flow-shop, single server, complexity, NP-hardness, worst-case analysis.

oneer Journal Advances in pplied athematics

ISSN: 2231-1858

Pioneer Scientific Publisher