

Lushchakova, I.N. , Kravchenko, S.A.

**Two-machine shop scheduling with zero and unit processing times
(1998) European Journal of Operational Research, 107 (2), pp. 378-
388.**

**AFFILIATIONS: Belarusian State University of Informatics and
Radioelectronics, 6, P. Brovka str., Minsk 220027, Belarus;
Institute of Engineering Cybernetics, Surganova St. 6, 220012 Minsk,
Belarus**

Two-machine shop scheduling with zero and unit processing times

Abstract

We consider the two machine flow shop and open shop problems to minimize the weighted mean flow-time, processing times being equal to 0 or 1. The solution to the open shop problem is based on algorithms for the flow shop problem and the corresponding two parallel identical machine problem. For all problems $O(n \log n)$ algorithms are proposed. © 1998 Elsevier Science B.V. All rights reserved.

Author keywords

Flow shop; Open shop; Optimal schedule; Polynomial algorithm

Indexed keywords

Engineering controlled terms: Algorithms; Optimization; Parallel processing systems; Polynomials; Problem solving; Scheduling

Engineering uncontrolled terms: Flow shop problem; Open shop problem

Engineering main heading: Production engineering