

 **HOW TO RELEASE ORDERS IN ASSEMBLY JOB SHOPS?**

Authors:

Nuno O. Fernandes, S. Carmo-Silva

Abstract:

This paper presents a simulation study of how workload control (WLC) release methods behave in an assembly job shop where due dates are set by customers. Most of the WLC research literature has neglected complex products with assembly operations and how to coordinate the release and production of interrelated work orders belonging to the same assembly order. The paper investigates two alternative strategies to cope with interrelated work orders release, namely: (1) by assigning the same due date but different planned release dates to work orders and (2) by assigning the same due date and the same planned release date to work orders. These strategies are compared and assessed on the basis of two main performance measures, namely the assembly orders total throughput time and mean absolute deviation of the lateness. Results of the simulations experiments contribute for the understanding of the implications of dealing with more complex environments than haven't been dealt with in the past by WLC research and to facilitate the implementation of WLC in practice.

Keywords:

Workload Control, Assembly Job Shops, Simulation.

Full text:

full text article here [Full text:](#).