

Special Issue on **Energy Aware Scheduling for Sustainable Manufacturing Systems**

CALL FOR PAPERS

Manufacturing industries are facing new environmental challenges because of greater awareness of the social and economic cost of energy and stricter levels of governmental legislation and policy. As a result, it is important that industrial processes are optimized in terms of both profitability and mid- to long-term sustainability. Indeed, industrial sustainability plays a fundamental role for next-generation manufacturing systems and, accordingly, energy efficiency interventions are gaining practical interest as a vital component of broader industrial sustainability strategies and sustainable manufacturing implementation. Energy aware scheduling is thus considered a fundamental issue for sustainable manufacturing systems (SMS) to improve efficiency of input energy usage and energy consumption.

The objective of this special issue is to provide a snapshot of the status, potential, challenges, and recent developments of mathematical solutions for solving energy aware scheduling in more sustainable manufacturing systems. We invite researchers to contribute original research articles as well as review articles that will stimulate the continuing efforts to improve the current state of art within the field from the standpoint of mathematical modelling and solution approaches.

Potential topics include but are not limited to the following:

- ▶ Heuristic and metaheuristic techniques for energy aware scheduling
- ▶ Energy efficient scheduling in SMS
- ▶ Mathematical solutions for energy aware scheduling
- ▶ Robust and energy aware scheduling
- ▶ Centralized mathematical models for energy efficient scheduling in SMS
- ▶ Distributed models for energy efficient scheduling in SMS
- ▶ Comparison of centralized versus distributed models for energy efficient scheduling in SMS
- ▶ Search methods from machine and process perspectives

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/mpe/eass/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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