

Multiproject job scheduling

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The objective is to develop an operations research model and a computational algorithm for a multi-project job scheduling considering given arrival times, due dates, available resources and project job requirements, including job precedence, parallel processing, and various resource requirements. A feasible schedule should be found minimizing a makespan, first for a given, finite horizon, then with a re-scheduling upon new project arrival and moving time horizon.

Note: In addition to the listed topics, topics in the area of process/quality improvement, maintenance, reliability, production and inventory control are possible, interested students should contact Prof. Makis, e-mail: makis@mie.utoronto.ca.