

## Scheduling Computer and Manufacturing Processes

Jacek Blazewicz, Klaus H. Ecker, Erwin Pesch, Günter Schmidt, Jan Weglarz



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Written in a clear and concise manner this book provides a theoretical and application oriented analysis of deterministic scheduling problems arising in computer and manufacturing environments. Various scheduling problems are discussed where different problem parameters such as task processing times, urgency weights, arrival times, deadlines, precedence constraints, and processor speed factor are involved. Polynomial and exponential time optimization algorithms as well as approximation and heuristic approaches are presented and discussed. Moreover, resource-constrained, imprecise computation, flexible flow shop and dynamic job shop scheduling, as well as flexible manufacturing systems, are considered. An excellent analysis based on real-world applications with plenty of examples.

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