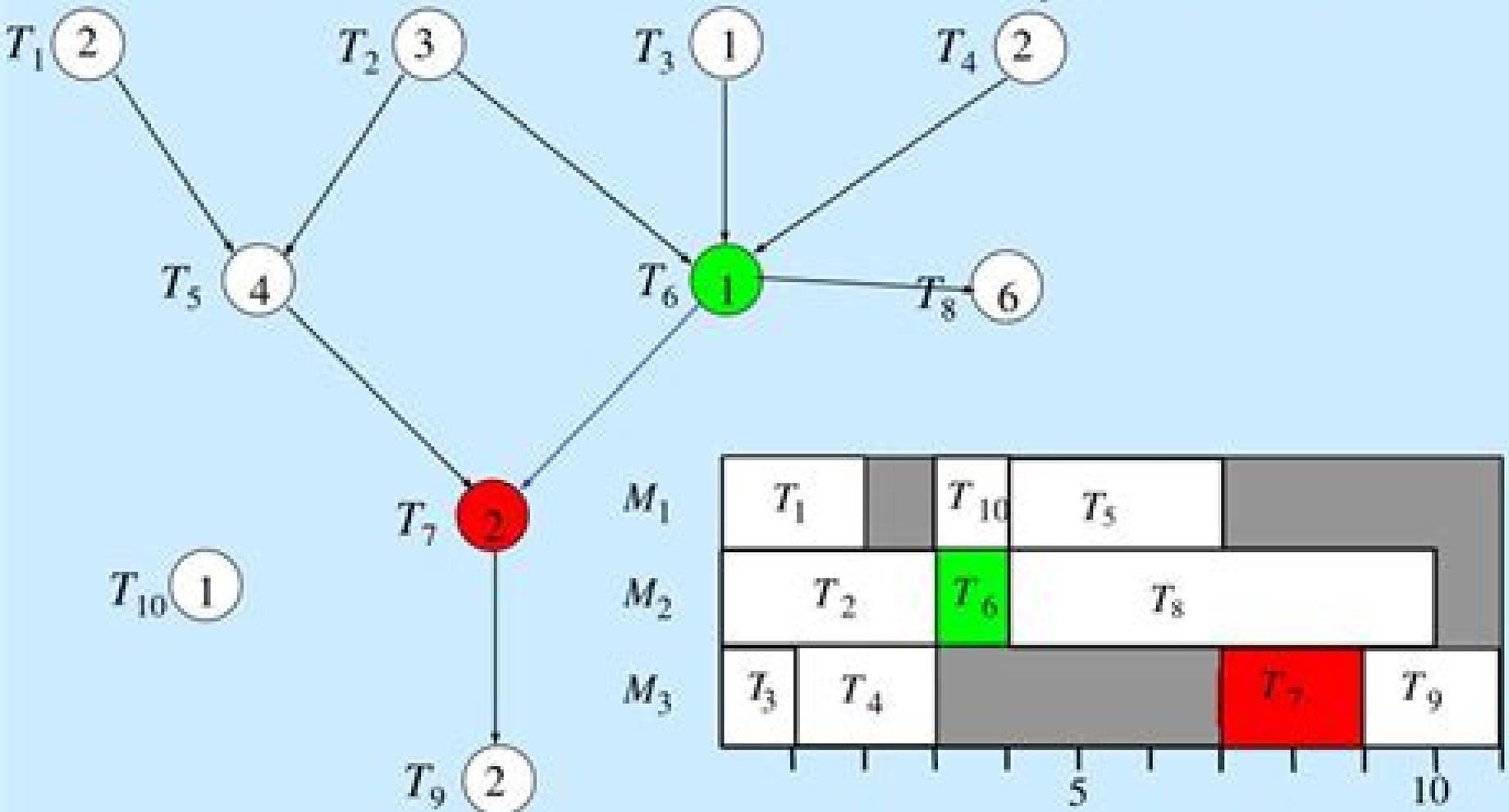


# Introduction to Deterministic Scheduling

## Tasks characterization

**Example.** A schedule for 10 dependent tasks ( $p_j$  given in the nodes).



# Deterministic Scheduling Theory

**John L. Bruno**



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Theory of Deterministic Scheduling Yike Xu, 2004 *Scheduling Theory and Its Applications* Philippe Chrétienne, 1995-09-11 Covering deterministic scheduling, stochastic scheduling, and the probabilistic analysis of algorithms, this unusually broad view of the subject brings together tutorials, surveys, and articles with original results from foremost international experts. The contributions reflect the great diversity in scheduling theory in terms of academic disciplines, applications areas, fundamental approaches, and mathematical skills. This book will help researchers to be aware of the progress in the various areas of specialization and the possible influences that this progress may have on their own specialities. Few disciplines are driven so much by continually changing and expanding technology, a fact that gives scheduling a permanence while adding to the excitement of designing and analyzing new systems. The book will be a vital resource for researchers and graduate students of computer science, applied mathematics, and operational research who wish to remain up to date on the scheduling models and problems of many of the newest technologies in industry, commerce, and the computer and communications sciences.

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Discrete Optimization I ,2000-04-01 Discrete Optimization I

**Complexity of Minimizing Makespan and Mean Flow Time** Gilbert H. Young,1989 *Handbook on Scheduling* Jacek Błażewicz,Klaus H. Ecker,Erwin Pesch,Günter Schmidt,Jan Weglarz,2007-06-12 This book provides a theoretical and application oriented analysis of deterministic scheduling problems in advanced planning and computer systems The text examines scheduling problems across a range of parameters job priority release times due dates processing times precedence constraints resource usage and more focusing on such topics as computer systems and supply chain management Discussion includes single and parallel processors flexible shops and manufacturing systems and resource constrained project scheduling Many applications from industry and service operations management and case studies are described The handbook will be useful to a broad audience from researchers to practitioners graduate and advanced undergraduate students

Task Assignment in Distributed Systems Virginia Mary Lo,1983

**Proceedings of the Fourth Annual ACM-SIAM Symposium on Discrete Algorithms** ,1993-01-01 Annotation Proceedings of a conference that took place in Austin Texas in January 1993 Contributors are impressive names from the field of computer science including Donald Knuth author of several computer books of biblical importance The diverse selection of paper topics includes dynamic point location ray shooting and the shortest paths in planar maps optimistic sorting and information theoretic complexity and an optimal randomized algorithm for the cow path problem No index Annotation copyright by Book News Inc Portland OR

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