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Disciplina	658.5/3
Soggetti	Algorithms Computers Production management Artificial intelligence Information technology Business—Data processing Computer science—Mathematics Algorithm Analysis and Problem Complexity Theory of Computation Operations Management Artificial Intelligence IT in Business Discrete Mathematics in Computer Science
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Nota di contenuto	Recent developments in practical course timetabling -- Space allocation: An analysis of higher education requirements -- Off-the-peg or made-to-measure? timetabling and scheduling with SA and TS -- Generalized assignment-type problems a powerful modeling scheme -- An examination scheduling model to maximize students' study time -- A comparison of annealing techniques for academic course scheduling -- Some observations about GA-based exam

timetabling -- Experiments on networks of employee timetabling problems -- Evolutionary optimisation of methodist preaching timetables -- Improving a lecture timetabling system for university-wide use -- A constraint-based approach for examination timetabling using local repair techniques -- Generating complete university timetables by combining tabu search with constraint logic -- Construction of basic match schedules for sports competitions by using graph theory -- A standard data format for timetabling instances -- Academic scheduling -- The implementation of a central timetabling system in a large British civic University -- A brute force and heuristics approach to tertiary timetabling.

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Sommario/riassunto

This book constitutes the thoroughly refereed post-workshop proceedings of the Second International Conference on the Practice and Theory of Automated Timetabling, PATAT'97, held in Toronto, Canada, in August 1997. The 17 revised full papers presented were carefully selected for presentation at the conference and then had to pass a second round of reviewing. The book is divided into topical sections on surveys, tabu search and simulated annealing, evolutionary computation (population-based methods), constraint-based methods, graph theory, and practical issues.

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