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Disciplina	006.3
Soggetti	Algorithms Computer science Production management Computer science—Mathematics Discrete mathematics Numerical analysis Artificial intelligence Theory of Computation Operations Management Discrete Mathematics in Computer Science Numerical Analysis Artificial Intelligence
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	General Issues -- A Perspective on Bridging the Gap Between Theory and Practice in University Timetabling -- Very Large-Scale Neighborhood Search Techniques in Timetabling Problems -- Measurability and Reproducibility in University Timetabling Research: Discussion and Proposals -- Employee Timetabling -- Physician Scheduling in Emergency Rooms -- A Flexible Model and a Hybrid Exact Method for Integrated Employee Timetabling and Production Scheduling -- Memes, Self-generation and Nurse Rostering -- An

Evaluation of Certain Heuristic Optimization Algorithms in Scheduling Medical Doctors and Medical Students -- Timetabling of Meetings -- Scheduling Research Grant Proposal Evaluation Meetings and the Range Colouring Problem -- Sports Timetabling -- Constructive Algorithms for the Constant Distance Traveling Tournament Problem -- Scheduling the Brazilian Soccer Tournament with Fairness and Broadcast Objectives -- Referee Assignment in Sports Leagues -- A Branch-and-Cut Algorithm for Scheduling the Highly-Constrained Chilean Soccer Tournament -- Course Timetabling -- Modeling and Solution of a Complex University Course Timetabling Problem -- Timetabling Problems at the TU Eindhoven -- The Teaching Space Allocation Problem with Splitting -- Solving the University Timetabling Problem with Optimized Enrollment of Students by a Self-adaptive Genetic Algorithm -- School Timetabling -- A Case Study for Timetabling in a Dutch Secondary School -- Scheduling School Meetings -- Hierarchical Timetable Construction -- The KTS High School Timetabling System -- Examination Timetabling -- A Novel Fuzzy Approach to Evaluate the Quality of Examination Timetabling -- Linear Linkage Encoding in Grouping Problems: Applications on Graph Coloring and Timetabling -- Ant Algorithms for the Exam Timetabling Problem -- An Extensible Modelling Framework for Timetabling Problems -- An Experimental Study on Hyper-heuristics and Exam Timetabling.

Sommario/riassunto

This volume contains a selection of the papers presented at the Sixth International Conference on the Practice and Theory of Automated Timetabling (PATAT) which was organized in Brno, Czech Republic, from August 30 to September 1 of 2006. The PATAT conferences, which are held every 2 years, bring together - searchers and practitioners from across the broad spectrum of inter-disciplinary research activity in search methodologies for automated timetable generation. This includes university timetabling, school timetabling, personnel rostering, transportation timetabling, sports scheduling. The programme of the 2006 conference featured 70 presentations which represented the state of the art in automated timetabling: there were four plenary papers, 17 full papers, 41 extended abstracts, and eight system demonstrations. After the conference, all authors were invited to submit their papers to a second round of rigorous refereeing for this volume of selected revised papers. We are pleased to have accepted 25 papers for this volume. This figure represents the highest number of acceptances in a PATAT post-proceedings volume and is a testament to the high standards of the papers that were submitted. The organization of the book is structured around particular problem areas.
