Tobias Grosche

Computational Intelligence in Integrated Airline Scheduling



Rafael Martí, Panos M.
Pardalos, Mauricio G.C. Resende

Computational Intelligence in Integrated Airline Scheduling Tobias Grosche,2008-12-23 An airline schedule represents the central planning element of each airline In general the objective of airline schedule optimization is to find the airline schedule that maximizes operating profit This planning task is not only the most important but also the most complex task an airline is confronted with Until now this task is performed by dividing the overall planning problem into smaller and less complex subproblems that are solved separately in a sequence However this procedure is only of minor capability to deal with interdependencies between the subproblems resulting in less profitable schedules than those being possible with an approach solving the airline schedule optimization problem in one step In this work two planning approaches for integrated airline scheduling are presented One approach follows the traditional sequential approach existing models from literature for individual subproblems are implemented and enhanced in an overall iterative routine allowing to construct airline schedules from scratch The other planning appraoch represents a truly simultaneous airline scheduling using metaheuristics airline schedules are processed and optimized at once without a separation into different optimization steps for its subproblems

Computational Intelligence in Integrated Airline Scheduling Tobias Grosche, 2009-02-26 In this text two planning approaches for integrated airline scheduling are presented One follows the traditional sequential approach and the other uses metaheuristics to offer a truly simultaneous approach to airline scheduling Handbook of Heuristics Rafael Martí, Panos M. Pardalos, Mauricio G.C. Resende, 2025-11-17 The handbook of heuristics consists of five main parts search strategies local search metaheuristics analysis and implementations and applications. They cover from search methods and methodological aspects such as matheuristics the exciting field in which mathematical programming is combined with heuristics to applications that provide the practitioner with a description of some relevant optimization issues in a number of specific application areas such as scheduling vehicle routing or network optimization. The first edition of the Handbook of Heuristics was published in 2018 and contained 47 chapters In this second edition the authors revised 30 of them to include new developments in the area that appeared in the last few years In particular the reader may find 14 chapters in search strategies including a new chapter on deep learning 4 in local search 14 in metaheuristics 5 in analysis and implementations and 24 in applications The inclusion of 14 new chapters makes this second edition even more comprehensive totaling 61 **Tourism, Transport and Travel Management** M.R. Dileep, 2019-03-04 The terms travel and tourism are often chapters used interchangeably in tourism literature This comprehensive textbook provides students with essential knowledge of the intricate relationship existing between travel transport and tourism The book analyses the structure functions activities strategies and practices of each of the sectors in the travel industry such as airlines airports tour operators travel agencies and cruises It is structured into six parts covering all modes of transport air land and water travel intermediation the tour operation business and impacts and prospects for the future International case studies are integrated throughout to

showcase practical realities and challenges in the travel industry and to aid students learning and understanding Written in an accessible and engaging style this is an invaluable resource for students of tourism hospitality transport and travel Big Data to Improve Strategic Network Planning in Airlines Maximilian Schosser, 2019-09-05 management courses Big data has become an important success driver in airline network planning Maximilian Schosser explores the status quo of network planning across a case study group consisting of nine airlines representing different business models The author describes 23 big data opportunities for airline network planning and evaluates them based on their specific value contribution for airline network planning Subsequently he develops a financial evaluation methodology for big data opportunities based on key performance indicators for airline network planning departments Computational Intelligence in Transport, Logistics, and Supply Chain Management Andreas Fink, Franz Rothlauf, 2008-09-08 Logistics and supply chain management deal with managing the ow of goods or services within a company from suppliers to customers and along a supply chain where companies act as suppliers as well as customers As transportation is at the heart of logistics the design of trace and transportation networks combined with the routing of vehicles and goods on the networks are important and demanding planning tasks. The in uence of transport logistics and s ply chain management on the modern economy and society has been growing steadily over the last few decades The worldwide division of labor the conn tion of distributed production centers and the increased mobility of individuals lead to an increased demand for e cient solutions to logistics and supply chain management problems On the company level e cient and e ective logistics and supply chain management are of critical importance for a company s s cessandits competitive advantage Properperformance of the logistic sfunctions can contribute both to lower costs and to enhanced customer service Computational Intelligence CI describes a set of methods and tools that often mimic biological or physical principles to solve problems that have been discult to solve by classical mathematics CI embodies neural networks fuzzy logic evolutionary computation local search and machine learning approaches Researchersthat workinthis areaoften comefromcomputer science operations research or mathematics as well as from many di erent engineering disciplines Popular and successful CI methods for optimization and planning problems are heuristic optimization approaches such as evolutionary algorithms local search methods and other types of guided search methods Soft Computing Based Modeling in Intelligent Systems Valentina Emilia Balas, János Fodor, Annamária R. Várkonyi-Kóczy, 2009-03-03 The book Soft Computing Based Modeling in Intelligent Systems contains the tended works originally presented at the IEEE International Workshop SOFA 2005 and additional papers SOFA an acronym for SOFt computing and Applications is an international wo shop intended to advance the theory and applications of intelligent systems and soft computing Lotfi Zadeh the inventor of fuzzy logic has suggested the term Soft Computing He created the Berkeley Initiative of Soft Computing BISC to connect researchers working in these new areas of AI Professor Zadeh participated actively in our wo shop Soft Computing techniques are tolerant to imprecision

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Intelligent Computing Based on Chaos Ljupco Kocarev, Zbigniew Galias, Shiguo Lian, 2009-02-03 Chaos is a fascinating phenomenon that has been observed in nature laboratory and has been applied in various real world applications Chaotic systems are deterministic with no random elements involved yet their behavior appears to be random Obsertions of chaotic behavior in nature include weather and climate the dynamics of sat lites in the solar system the time evolution of the magnetic field of celestial bodies population growth in ecology to mention only a few examples Chaos has been observed in the laboratory in a number of systems such as electrical circuits lasers chemical reactions fluid dynamics mechanical systems and magneto mechanical devices Chaotic behavior has also found numerous applications in electrical and communication engineering information and communication technologies biology and medicine To the best of our knowledge this is the first book edited on chaos applications in intelligent computing To access the latest research related to chaos applications in intelligent computing we launched the book project where researchers from all over the world provide the necessary coverage of the mentioned field The primary obj tive of this project was to assemble as much research coverage as possible related to the field by defining the latest innovative technologies and providing the most c prehensive list of research references Design and Control of Intelligent Robotic Systems Dikai Liu, Lingfeng Wang, Kay Chen Tan, 2009-01-22 With the increasing applications of intelligent robotic systems in various elds the sign and control of these systems have increasingly attracted interest from researchers This edited book entitled Design and Control of Intelligent Robotic Systems in the book series of Studies in Computational Intelligence is a collection of some advanced research on design and control of intelligent robots The works presented range in scope from design methodologies to robot development Various design approaches and al rithms such as evolutionary computation neural networks fuzzy logic learning etc are included We also would like to mention that most studies reported in this book have been implemented in physical systems An overview on the applications of computational intelligence in bio inspired robotics is given in Chapter 1 by M Begum and F Karray with highlights of the recent progress in bio inspired robotics research and a focus on the usage of computational intelligence tools to design human like cognitive abilities in the robotic systems In Chapter 2 Lisa L Grant and Ganesh K

Venayagamoorthy present greedy search particle swarm optimization and fuzzy logic based strategies for navigating a swarm of robots for target search in a hazardous environment with potential applications in high risk tasks such as disaster recovery and hazardous material detection Soft Computing for Data Mining Applications K. R. Venugopal, K.G. Srinivasa, L. M. Patnaik, 2009-03-11 The authors have consolidated their research work in this volume titled Soft Computing for Data Mining Applications The monograph gives an insight into the research in the elds of Data Mining in combination with Soft Computing methodologies In these days the data continues to grow ponentially Much of the data is implicitly or explicitly imprecise Database discovery seeks to discover noteworthy unrecognized associations between the data items in the existing database The potential of discovery comes from the realization that alternate contexts may reveal additional valuable information The rate at which the data is stored growing at a phenomenal rate Asaresult traditionaladhocmixturesofstatisticaltechniquesanddata managementtools are no longer adequate for analyzing this vast collection of data Severaldomainswherelargevolumesofdataarestoredincentralizedor distributeddatabasesincludesapplicationslikeinelectroniccommerce bio formatics computer security Web intelligence intelligent learning database systems nance marketing healthcare telecommunications and other elds E cient tools and algorithms for knowledge discovery in large data sets have been devised during the recent years These methods exploit the ca bility of computers to search huge amounts of data in a fast and e ective manner However the data to be analyzed is imprecise and a icted with certainty In the case of heterogeneous data sources such as text and video the data might moreover be ambiguous and partly con icting Besides p terns and relationships of interest are usually approximate Thus in order to make the information mining process more robust it requires tolerance toward imprecision uncertainty and exceptions

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