Tobias Grosche

Computational Intelligence in Integrated Airline Scheduling

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Computational Intelligence In Integrated Airline Scheduling Studies In Computational Intelligence

Dikai Liu,Lingfeng Wang,Kay Chen Tan

Computational Intelligence In Integrated Airline Scheduling Studies In Computational Intelligence:

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 *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 **Tourism, Transport and Travel Management** M.R. Dileep,2019-03-04 The terms travel and tourism are often 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 management courses Big Data to Improve Strategic Network Planning in Airlines Maximilian Schosser,2019-09-05 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 *Advances in 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 tra c 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 cessanditscompetitiveadvantage Properperformanceofthelogisticsfunctions 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 di cult 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   **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 Obser tions 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   **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 uncertainty and partial truth Due to the large variety and complexity of the domain the constituting methods of Soft Computing are not competing for a comprehensive ultimate solution Instead they are complementing each other for dedicated solutions adapted to each specific pr lem Hundreds of concrete applications are already available in many domains Model based approaches offer a very challenging way to integrate a priori knowledge into procedures Due to their flexibility robustness and easy interpretability the soft c puting applications will continue to have an exceptional role in our technologies The applications of Soft Computing techniques in emerging research areas show its mat ity and usefulness The IEEE International Workshop SOFA 2005 held Szeged Hungary and Arad Romania in 2005 has led to the publication of these two edited volumes This volume contains Soft Computing methods and applications in modeling optimisation and prediction   **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   Web Intelligence and Intelligent Agents Zeeshan-Ul-Hassan Usmani,2010-03-01 This book presents a unique and diversified collection of research work ranging from controlling the activities in virtual world to optimization of productivity in games from collaborative recommendations to populate an open computational environment with autonomous hypothetical reasoning and from dynamic health portal to measuring information quality correctness and readability from the web   **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 storedis 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 andother 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   Geocomputation and Urban Planning Beniamino Murgante,Giuseppe Borruso,Alessandra Lapucci,2009-02-26 Sixteen years ago Franklin estimated that about 80% of data contain geo referenced information To date the availability of geographic data and information is growing together with the capacity of users to operate with IT tools and instruments Spatial data infrastructures are growing and allow a wide number of users to rely on them This growth has not been fully coupled to an increase of knowledge to support spatial decisions Spatial analytical techniques geographical analysis and modelling methods are therefore required to analyse data and to facilitate the decision process at all levels Old geographical issues can find an answer thanks to new methods and instruments while new issues are developing challenging researchers towards new solutions This volume aims to contribute to the development of new techniques and methods to improve the process of knowledge acquisition The Geocomputational expression is related to the development and the application of new theories methods and tools in order to provide better solutions to complex geographical problems The geocomputational analysis discussed in this volume could be classified according to three main domains of applications the first one related to spatial decision support system and to spatial uncertainty the second connected to artificial intelligence the third based on all spatial statistics techniques   *Intelligent Scene Modelling Information Systems* Georgios Miaoulis,Dimitri Plemenos,2009-03-06 This book is dedicated to and contains the latest research in intelligent scene modelling information systems Declarative scene modeling techniques are presented as well as their implementation in an intelligent information system   **Intelligent Unmanned Systems: Theory and Applications** Agus Budiyono,Bambang Riyanto,Endra Joelianto,2009-03-03 The book largely represents the extended version of select papers from the Inter tional Conference on Intelligent Unmanned System ICIUS 2007 which was jointly organized by the Center for Unmanned System Studies at

Institut Teknologi Bandung Artificial Muscle Research Center at Konkuk University and Institute of Bio inspired Structure and Surface Engineering Nanjing University of Aeronautics and Astrona ics The joint event was the 3rd conference extending from International Conference on Emerging System Technology ICEST in 2005 and International Conference on Technology Fusion ICTF in 2006 both conducted in Seoul ICIUS 2007 was focused on both theory and application primarily covering the topics on robotics autonomous vehicles and intelligent unmanned technologies The conference was arranged into three parallel symposia with the following scope of topics Unmanned Systems Micro air vehicle Underwater vehicle Micro satellite manned aerial vehicle Multi agent systems Autonomous ground vehicle Blimp Swarm intelligence learning and control Robotics and Biomimetics Artificial muscle actuators Smart sensors Design and applications of MEMS NEMS system Intelligent robot system Evolutionary al rithm Control of biological systems AI and expert systems Biological learning control systems Neural networks Genetic algorithm Control and Intelligent System Distributed intelligence Distributed decentralized intelligent control Distributed or decentralized control methods Distributed and bedded systems Embedded intelligent control Complex systems Discrete event s tems Hybrid systems Networked control systems Delay systems Fuzzy systems Identification and estimation Nonlinear systems Precision motion control Control applications Control engineering education

Metaheuristic Clustering Swagatam Das,Ajith Abraham,Amit Konar,2009-03-24 Cluster analysis means the organization of an unlabeled collection of objects or patterns into separate groups based on their similarity The task of computerized data clustering has been approached from diverse domains of knowledge like graph theory multivariate analysis neural networks fuzzy set theory and so on Clustering is often described as an unsupervised learning method but most of the traditional algorithms require a prior specification of the number of clusters in the data for guiding the partitioning process thus making it not completely unsupervised Modern data mining tools that predict future trends and behaviors for allowing businesses to make proactive and knowledge driven decisions demand fast and fully automatic clustering of very large datasets with minimal or no user intervention In this volume we formulate clustering as an optimization problem where the best partitioning of a given dataset is achieved by minimizing maximizing one single objective clustering or more multi objective clustering objective functions Using several real world applications we illustrate the performance of several metaheuristics particularly the Differential Evolution algorithm when applied to both single and multi objective clustering problems where the number of clusters is not known beforehand and must be determined on the run This volume comprises of 7 chapters including an introductory chapter giving the fundamental definitions and the last Chapter provides some important research challenges Academics scientists as well as engineers engaged in research development and application of optimization techniques and data mining will find the comprehensive coverage of this book invaluable *A New Approach for Disruption Management in Airline Operations Control* António J. M. Castro,Ana Paula Rocha,Eugénio Oliveira,2014-06-19 Most of the research efforts dealing with airline scheduling have been done on off line plan optimization However nowadays with the

increasingly complex and huge traffic at airports the real challenge is how to react to unexpected events that may cause plan disruptions leading to flight delays Moreover these disruptive events usually affect at least three different dimensions of the situation the aircraft assigned to the flight the crew assignment and often forgotten the passengers journey and satisfaction This book includes answers to this challenge and proposes the use of the Multi agent System paradigm to rapidly compose a multi faceted solution to the disruptive event taking into consideration possible preferences of those three key aspects of the problem Negotiation protocols taking place between agents that are experts in solving the different problem dimensions combination of different utility functions and not less important the inclusion of the human in the automatic decision making loop make MASDIMA the system described in this book well suited for real life plan disruption management applications

Modelling Dynamics in Processes and Systems Wojciech Mitkowski,2009-05-02 Dynamics is what characterizes virtually all phenomenae we face in the real world and processes that proceed in practically all kinds of inanimate and animate systems notably social systems For our purposes dynamics is viewed as time evolution of some characteristic features of the phenomenae or processes under consideration It is obvious that in virtually all non trivial problems dynamics can not be neglected and should be taken into account in the analyses to first get insight into the problem consider and second to be able to obtain meaningful results A convenient tool to deal with dynamics and its related evolution over time is to use the concept of a dynamic system which for the purposes of this volume can be characterized by the input control state and output spaces and a state transition equation Then starting from an initial state we can find a sequence of consecutive states outputs under consecutive inputs controls That is we obtain a trajectory The state transition equation may be given in various forms exemplified by differential and difference equations linear or nonlinear deterministic or stochastic or even fuzzy imprecisely specified fully or partially known etc These features can give rise to various problems the analysts may encounter like numerical difficulties instability strange forms of behavior e g chaotic etc This volume is concerned with some modern tools and techniques which can be useful for the modeling of dynamics We focus our attention on two important areas which play a key role nowadays namely automation and robotics and biological systems We also add some new applications which can greatly benefit from the availability of effective and efficient tools for modeling dynamics exemplified by some applications in security systems   *Bio-Inspired Technologies for the Hardware of Adaptive Systems* Mircea Gh. Negoita,Sorin Hintea,2009-01-21 Evolvable Hardware EHW has emerged as a sub domain of artificial evolution represented by a design methodology consortium of methods involving the application of Evolutionary Algorithms EA to the synthesis of digital and analogue electronic circuits and systems Nevertheless the most benefit for the society and indeed most revolutionizing application of EA is its hardware implementation leading to the EHW These new EA based methodologies led to a new type of machines that is evolved to attain a desired behaviour which means they have a behavioural computational intelligence EHW is a special case of the adaptive hardware namely being strongly related to the Adaptive Systems AS and the Adaptive

Hardware AH The book presents a careful selection of the field that very well reflects the breadth of this high technology and its terminology and applications in context of the AS AH The harmonious symbiosis of the engineering approach and the accurate scientific methodology features the aspects of highly relevant and practical design principles governing the development of EHW and its connections with AS AH This book is both attractive and useful for everybody interested in the design and analysis of EHW in context of AS AH and implementation of real time adaptive hardware hybrid intelligent systems **Intelligent Systems in Oil Field Development under Uncertainty** Marco A. C. Pacheco,Marley M. B. R. Vellasco,2009-04-27 The decision to invest in oil field development is an extremely complex problem even in the absence of uncertainty due to the great number of technological alternatives that may be used to the dynamic complexity of oil reservoirs which involves mul phase flows oil gas and water in porous media with phase change and to the c plicated combinatorial optimization problem of choosing the optimal oil well network that is choosing the number and types of wells horizontal vertical directional m tilateral required for draining oil from a field with a view to maximizing its economic value This problem becomes even more difficult when technical uncertainty and e nomic uncertainty are considered The former are uncertainties regarding the existence volume and quality of a reservoir and may encourage an investment in information before the field is developed in order to reduce these uncertainties and thus optimize the heavy investments required for developing the reservoir The economic or market uncertainties are associated with the general movements of the economy such as oil prices gas demand exchange rates etc and may lead decision makers to defer vestments and wait for better market conditions Choosing the optimal investment moment under uncertainty is a complex problem which traditionally involves dynamic programming tools and other techniques that are used by the real options theory Foundations in Grammatical Evolution for Dynamic Environments Ian Dempsey,Michael O'Neill,Anthony Brabazon,2009-04-07 Dynamic environments abound encompassing many real world problems in fields as diverse as finance engineering biology and business A vibrant research literature has emerged which takes inspiration from evolutionary processes to develop problem solvers for these environments Foundations in Grammatical Evolution for Dynamic Environments is a cutting edge volume illustrating current state of the art in applying grammar based evolutionary computation to solve real world problems in dynamic environments The book provides a clear introduction to dynamic environments and the types of change that can occur This is followed by a detailed description of evolutionary computation concentrating on the powerful Grammatical Evolution methodology It continues by addressing fundamental issues facing all Evolutionary Algorithms in dynamic problems such as how to adapt and generate constants how to enhance evolvability and maintain diversity Finally the developed methods are illustrated with application to the real world dynamic problem of trading on financial time series The book was written to be accessible to a wide audience and should be of interest to practitioners academics and students who are seeking to apply grammar based evolutionary algorithms to solve problems in dynamic environments Foundations in

Grammatical Evolution for Dynamic Environments is the second book dedicated to the topic of Grammatical Evolution

Iterative-Interpolation Super-Resolution Image Reconstruction Vivek Bannore,2009-04-08 To my wife Mitu Vivek Bannore Preface Preface In many imaging systems under sampling and aliasing occurs frequently leading to degradation of image quality Due to the limited number of sensors available on the digital cameras the quality of images captured is also limited Factors such as optical or atmospheric blur and sensor noise can also contribute further to the d radation of image quality Super Resolution is an image reconstruction technique that enhances a sequence of low resolution images or video frames by increasing the spatial resolution of the images Each of these low resolution images contain only incomplete scene information and are geometrically warped aliased and der sampled Super resolution technique intelligently fuses the incomplete scene information from several consecutive low resolution frames to reconstruct a hi resolution representation of the original scene In the last decade with the advent of new technologies in both civil and mi tary domain more computer vision applications are being developed with a demand for high quality high resolution images In fact the demand for high resolution images is exponentially increasing and the camera manufacturing te nology is unable to cope up due to cost efficiency and other practical reasons

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