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Proceedings of SOHOMA 2018

Fleet Planning for Airlines

Graphs, Dioids and Semirings

Dynamic Data Driven Applications Systems

Multigenerational Online Behavior and Media Use: Concepts, Methodologies, Tools, and Applications

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STOUT HEZEKIAH

Theory and applications Springer Science & Business Media
This edited volume addresses the importance of mathematics for industry and society by presenting highlights from contract

research at the Department of Applied Mathematics at SINTEF, the largest independent research organization in Scandinavia. Examples range from computer-aided geometric design, via general purpose computing on graphics cards, to reservoir simulation for enhanced oil recovery. Contributions are written in a tutorial style.
Network Design And Optimization For Smart Cities Springer Science & Business Media

"This book provides comprehensive coverage and understanding of clinical problem solving in healthcare, especially user-driven healthcare, using concerted experiential learning in conversations between multiple users and stakeholders, primarily patients, health professionals, and other actors in a care giving collaborative network across a web interface"--

Concepts, Methodologies, Tools, and Applications Springer Science & Business Media

This book's aim is to provide several different kinds of information: a delineation of general metaheuristics methods, a number of state-of-the-art articles from a variety of well-known classical application areas as well as an outlook to modern computational methods in promising new areas. Therefore, this book may equally serve as a textbook in graduate courses for students, as a reference book for people interested in engineering or social sciences, and as a collection of new and promising avenues for researchers working in this field.

Buying the Big Jets IGI Global

This book focuses on real time management of distribution systems, integrating the latest results in system design, algorithm development and system implementation to capture the state-of-the art research and application trends. The book important topics such as goods dispatching, couriers, rescue and repair services, taxi cab services, and more. The book includes real-life case studies that describe the solution to actual distribution problems by combining systemic and algorithmic approaches.

Concepts, Methodologies, Tools, and Applications IGI Global

This book gathers the peer-reviewed papers presented at the 8th

edition of the International Workshop "Service Orientation in Holonic and Multi-Agent Manufacturing - SOHOMA'18" held at the University of Bergamo, Italy on June 11-12, 2018. The objective of the SOHOMA annual workshops is to foster innovation in smart and sustainable manufacturing and logistics systems by promoting new concepts, methods and solutions that use service orientation of agent-based control technologies with distributed intelligence. Reflecting the theme of SOHOMA'18: "Digital transformation of manufacturing with agent-based control and service orientation of Internet-scale platforms", the research included focuses on how the digital transformation, as advocated by the "Industry 4.0", "Industrial Internet of Things", "Cyber-Physical Production Systems" and "Cloud Manufacturing" frameworks, improves the efficiency, agility and sustainability of manufacturing processes, products, and services, and how it relates to the interaction between the physical and informational worlds, which is implemented in the virtualization of products, processes and resources managed as services.

Real-time management and planning of commercial vehicle operations IGI Global

This book contains a selection of papers from the 16th International Symposium on Spatial Data Handling (SDH), the premier long-running forum in geographical information science. This collection offers readers exemplary contributions to geospatial scholarship and practice from the conference's 30th anniversary.

Proceedings of SOHOMA 2018 World Scientific

Food has a fundamental position in society, ensuring health, happiness and political stability. Consequently, the management

of food chains and networks is one of the most important aspects of the modern food industry. Yet food is difficult to handle along long supply chains, with a limited window for storage and handling time, and the risk of spoiling if incorrectly handled or processed. These issues can lead to logistical problems that can severely affect product quality and freshness. Intelligent Agrifood Chains and Networks offers a timely discussion of the current state of food logistics, and indicates the major ICT problems that can occur during production, warehousing, transportation and retailing. Emphasis is given to new technologies and intelligent systems that are able to process time-dependent information, handle emergencies, and support logistics operations in food management. In particular, the authors show how telematics and RFID can be implemented in the supply chain. The book also includes real-life case studies, in which actual food logistics problems and their solutions are presented, demonstrating how systemic and logistics approaches may be combined. The book is directed at academics, researchers, and students seeking the necessary background in terms of the interplay between the food supply chain and ICT. Its comprehensive review of current issues in the food supply chain will be of interest to managers and technicians working in the food industry, while its technological focus will be invaluable to food scientists and technologists working in research and industry environments.

Fleet Planning for Airlines Springer Science & Business Media

This is the eighth year that the Agent-Oriented Information Systems (AOIS) workshops have been held. Papers submitted to AOIS show an increase in quality and maturity as agent technology is being increasingly seen as a viable alternative for

software and systems development. In AOIS, we focus on the application of agent technology in information systems development and explore the potential for facilitating the increased usage of agent technology in the creation of information systems in the widest sense. This year's workshops were held in conjunction with two major, international computing research conferences: the first, in May 2006, was affiliated with the AAMAS conference in Hakadote, Japan and chaired by Garcia, Ghose and Kolp. The second was held in conjunction with the international CAISE conference held in Luxembourg (June 2006) and chaired by Bresciani, Henderson-Sellers and Mouratidis. (Details of all preceding workshops are to be found at <http://www.aois.org>.) The best papers from both these meetings were identified and authors invited to revise and extend their papers in light of the reviewers' comments and feedback at the workshop. Following submission to this compendium volume, another round of reviews was undertaken resulting in what you can read here. These re-reviews were undertaken by three members of the Programme Committee - we wish to thank both the authors for undertaking the necessary revisions and the reviewers for this extra call on their precious time.

Graphs, Dioids and Semirings Springer

This book examines the newer and emerging models of telecommunications technology that play instrumental roles in providing international economic and societal interconnectivity. Advancing technology in the field imposes the need to develop new models to solve complex planning and decision making problems. The book explores natural output of the new technical developments and applications with selective chapter treatment

on novel business models to fill technical and business needs.

Dynamic Data Driven Applications Systems Springer Science & Business Media

TEODOR GABRIEL CRAINIC, DIRECTOR The Centre for Research on Transportation (C.R.T.) was founded in 1971 by the Université de Montreal. From 1988 on, it is jointly managed by the Université de Montreal and its affiliated schools, the Ecole des Hautes Etudes Commerciales and Ecole Poly technique. Professors, students and researchers from many institutions in the Montreal area join forces at the C.R.T. to analyze transportation, logistics and telecommunication systems from a multidisciplinary perspective. The C.R.T. pursues three major, complementary objectives: training of high-level specialists; the advancement of knowledge and technology; the transfer of technology towards industry and the public sector. Its main field of expertise is the development of quantitative and computer-based models and methods for the analysis of urban, regional and intercity transportation networks, as well as telecommunication systems. This applies to the study of passenger and commodity flows, as well as to the socioeconomic aspects of transportation: policy, regulation, economics. The twenty-fifth anniversary of the C.R.T. offered the opportunity to evaluate past accomplishments and to identify future trends and challenges. Five colloquia were thus organized on major research and application themes that also reflected our main research areas. They gathered together internationally renowned researchers who linked recent scientific and technological advances to modeling and methodological challenges waiting to be tackled, particularly concerning new problems and applica-

tions, and the increasingly widespread use of new technologies.

Multigenerational Online Behavior and Media Use: Concepts, Methodologies, Tools, and Applications Springer Science & Business Media

Dynamic Fleet Management Concepts, Systems, Algorithms & Case Studies Springer Science & Business Media

Select Papers from the 16th IGU Spatial Data Handling Symposium Springer

This book deals with transportation processes denoted as the Real-time Distribution of Perishable Goods (RDOPG). The book presents three contributions that are made to the field of transportation. First, a model considering the minimization of customer inconvenience is formulated. Second, a pro-active real-time control approach is proposed. Stochastic knowledge is generated from past request information by a new forecasting approach and is used in the pro-active approach to guide vehicles to request-likely areas before real requests arrive there. Various computational results are presented to show that in many cases the pro-active approach is able to achieve significantly improved results. Moreover, a measure for determining the structural quality of request data sets is also proposed. The third contribution of this book is a method that is presented for considering driver inconvenience aspects which arise from vehicle en-route diversion activities. Specifically, this method makes it possible to restrict the number of performed vehicle en-route diversion activities.

Clinical Solutions and Medical Progress through User-Driven Healthcare Springer Science & Business Media

For many transportation systems, the cost of expanding the

infrastructure is too high. Therefore, engineers must shift their focus to improving the quality of transportation within the existing infrastructure. Focusing on highway and railway systems, Intelligent Transportation Systems: New Principles and Architectures provides a radically different

First International Symposium INFORMS

Inhaltsangabe: Einleitung: Tourenplanungsprobleme gehören zu den am häufigsten untersuchten Problemstellungen des Operations Research. Dennoch beschäftigt sich der weitaus größere Anteil der Arbeiten mit statischen Tourenplanungsproblemen. Sie unterliegen der stark vereinfachenden Annahme der Planungssicherheit durch unveränderliche Informationen im Zeitablauf. In Problemstellungen der realen Welt sind allerdings fast alle Parameter mit Unsicherheit behaftet und ändern sich im Zeitablauf. Die Berücksichtigung dieses Aspektes für eine möglichst realitätsnahe Planung findet in der dynamischen Tourenplanung statt. Gerade in der heutigen Zeit, in der die wirtschaftliche, ökologische Nachhaltigkeit und die Just in Time Produktion im Rahmen der Öffnung der Märkte und der Globalisierung immer mehr in den Blickpunkt geraten, ist es wesentlich die notwendigen logistischen Dienstleistungen so effizient wie möglich zu gestalten. Die gestiegenen Rechnerleistungen und die Entwicklung im Bereich der Kommunikations- und Informationstechnologie bietet immer neuere Möglichkeiten große Mengen an Echtzeitdaten effektiv zu verarbeiten und solche Systeme kostengünstig für Unternehmen, die logistische Aufgaben im Bereich der Tourenplanung zu bewältigen haben, bereitzustellen. Des Weiteren zeigen die

praktischen Anwendungsgebiete durch ihre Vielfalt und Breite, dass ein großer Bedarf an intelligenten Lösungen durch eine dynamische Tourenplanung besteht. Was in dem wachsenden Gebiet der dynamischen Tourenplanung Diskussionsgegenstand in der Literatur ist, wird in dieser Arbeit durch einen Überblick im Rahmen der Grundlagen der dynamischen Tourenplanung und der grundlegenden Unterscheidungsmöglichkeiten gegenüber einer statischen Tourenplanung aufgezeigt. Bevor der Aufbau und Gang dieser Arbeit im Folgenden detaillierter behandelt wird, sollen zunächst der Gegenstand und die Zielstellung dieser Arbeit mit den dahinter stehenden Fragestellungen erfolgen.

Problemstellung: Die dynamischen Tourenplanungsprobleme wurden gerade in den letzten Jahren stärker erforscht. Diese Arbeit soll einen Literaturüberblick über diesen Themenbereich der Logistik geben. Dabei wird zunächst auf den Gegenstand dieser Arbeit eingegangen, um anschließend anhand der einzelnen Fragestellungen die Zielstellung dieser Arbeit aufzuzeigen. Im Rahmen eines Literaturüberblickes sollen in dieser Arbeit die wesentlichen Bereiche der dynamischen Tourenplanung beleuchtet werden. Daher kann und soll eine [...] *šbersicht und Stand der Forschung* IGI Global

This book constitutes the refereed proceedings of the Third International Conference on Dynamic Data Driven Application Systems, DDDAS 2020, held in Boston, MA, USA, in October 2020. The 21 full papers and 14 short papers presented in this volume were carefully reviewed and selected from 40 submissions. They cover topics such as: digital twins; environment cognizant adaptive-planning systems; energy systems; materials systems; physics-based systems analysis; imaging methods and systems;

and learning systems.

Focusing on Occasional Transportation Tasks John Wiley & Sons

This volume of three books presents recent advances in modelling, planning and evaluating city logistics for sustainable and liveable cities based on the application of ICT (Information and Communication Technology) and ITS (Intelligent Transport Systems). It highlights modelling the behaviour of stakeholders who are involved in city logistics as well as planning and managing policy measures of city logistics including cooperative freight transport systems in public-private partnerships. Case studies of implementing and evaluating city logistics measures in terms of economic, social and environmental benefits from major cities around the world are also given.

Management Intelligent Systems Springer

Cellular Genetic Algorithms defines a new class of optimization algorithms based on the concepts of structured populations and Genetic Algorithms (GAs). The authors explain and demonstrate the validity of these cellular genetic algorithms throughout the book with equal and parallel emphasis on both theory and practice. This book is a key source for studying and designing cellular GAs, as well as a self-contained primary reference book for these algorithms.

Reactive Search and Intelligent Optimization Springer Nature

There are more than 80 different sleep disorders including insomnia, sleep apnea, restless leg syndrome, hypersomnia, circadian rhythm disorders, and parasomnia. Good sleep is necessary for optimal health and can affect hormone levels and weight. The use of artificial intelligence (AI) and biomedical signals and images can help in healthcare diagnostics that are

related to these and other sleep disorders. Advancing the Investigation and Treatment of Sleep Disorders Using AI presents an overview of sleep disorders based on machine intelligence methods in order to learn and explore the latest advancements, developments, methods, systems, futuristic approaches, and algorithms towards sleep disorders and to address their challenges. This book also discusses recent and future advancements in various feature extraction techniques and machine learning methods. Covering topics such as biomedical signal processing, augmented reality for clinical investigation, and sleep disorder detection, this book is essential for sleep medicine practitioners, clinical psychologists, psychiatrists, medical technologists, doctors, IT specialists, biomedical engineers, researchers, graduate students, and academicians.

City Logistics 3 diplom.de

This book constitutes the revised selected papers from the 13 European Conference on Multi-Agent Systems, EUMAS 2015, and the Third International Conference on Agreement Technologies, AT 2015, held in Athens, Greece, in December 2015. The 36 papers presented in this volume were carefully reviewed and selected from 65 submissions. They are organized in topical sections named: coordination and planning; learning and optimization, argumentation and negotiation; norms, trust, and reputation; agent-based simulation and agent programming.

Operations Research Applications in Health Care Management
CRC Press

This book constitutes the proceedings of the Third EAI International Conference on Intelligent Transport Systems, INTSYS 2019, which was held in Braga, Portugal, in December

2019. The 23 revised full papers were selected from 35 submissions and are organized in four thematic sessions on

modelling, optimization, tracking and prediction, visualization and sensing.

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