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Author Asvin Goel Nov 2010

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Fleet Telematics

Real-time management and planning of commercial vehicle operations

Springer Science & Business Media *This book combines wireless telematics systems with dynamic vehicle routing algorithms and vehicle-positioning systems to produce a telematics-enabled information system that can be employed by commercial fleet operators for real-time monitoring, control, and planning. The book further presents a Messaging And Fleet Monitoring System and a Dynamic Planning System (DPS) that provides real-time decision support considering the current state of the transportation system.*

Dynamic Fleet Management for International Truck Transportation

Focusing on Occasional Transportation Tasks

Springer Science & Business Media Two new dynamic planning approaches, incorporating all important real-life restrictions, such as regulations on driving and working hours, are developed and evaluated. Extensive numerical tests are carried out with a five-week real-life data set from an international freight forwarding company.

Intelligent Agrifood Chains and Networks

John Wiley & Sons 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.

Integration of Information and Optimization Models for Routing in City Logistics

Springer Science & Business Media As urban congestion continues to be an ever increasing problem, routing in these settings has become an important area of operations research. This monograph provides cutting-edge research, utilizing the recent advances in technology, to quantify the value of dynamic, time-dependent information for advanced vehicle routing in city logistics. The methodology of traffic data collection is enhanced by GPS based data collection, resulting in a comprehensive number of travel time records. Data Mining is also applied to derive dynamic information models as required by time-dependent optimization. Finally, well-known approaches of vehicle routing are adapted in order to handle dynamic information models. This book interweaves the usually distinct areas of traffic data collection, information retrieval and time-dependent optimization by an integrated methodological approach, which refers to synergies of Data Mining and Operations Research techniques by example of city logistics applications. These procedures will help improve the reliability of logistics services in congested urban areas.

Business Process Management Forum

BPM Forum 2019, Vienna, Austria, September 1-6, 2019, Proceedings

Springer Nature This book constitutes the proceedings of the BPM Forum held during the 17th International Conference on Business Process Management, BPM 2019, which took place in Vienna, Austria, in September 2019. The BPM Forum hosts innovative research which has a high potential of stimulating discussions. The papers selected for the forum are expected to showcase fresh ideas from exciting and emerging topics in BPM, even if they are not yet as mature as the regular papers at the conference. The 13 full papers included in this volume were carefully reviewed and selected from a total of 115 submissions. The papers were organized in topical sections named: specification; execution; analytics; and management.

Vehicle Routing under

Consideration of Driving and Working Hours

A Distributed Decision Making Perspective

Springer Science & Business Media *In this study the dispatchers' problem of combined vehicle routing and break scheduling is modelled and solved using an efficient heuristic solution algorithm. Strategies for including the legal rules in the dispatching process are suggested.*

Advanced Information Systems Engineering

33rd International Conference, CAiSE 2021, Melbourne, VIC, Australia, June 28 – July 2, 2021, Proceedings

Springer Nature *This book constitutes the proceedings of the 33rd International Conference on Advanced Information Systems Engineering, CAiSE 2021, which was held online during June 28-July 2, 2021. The conference was planned to take place in Melbourne, Australia, and changed to an online format due to the COVID-19 pandemic. The papers included in these proceedings focus on intelligent information systems and deal with novel approaches to IS engineering; models, methods and techniques in IS engineering; architectures and platforms for IS engineering; and domain specific and multi-aspect in IS engineering.*

Reactive Search and Intelligent Optimization

Springer Science & Business Media *Reactive Search and Intelligent Optimization is an excellent introduction to the main principles of reactive search, as well as an attempt to develop some fresh intuition for the approaches. The book looks at*

different optimization possibilities with an emphasis on opportunities for learning and self-tuning strategies. While focusing more on methods than on problems, problems are introduced wherever they help make the discussion more concrete, or when a specific problem has been widely studied by reactive search and intelligent optimization heuristics. Individual chapters cover reacting on the neighborhood; reacting on the annealing schedule; reactive prohibitions; model-based search; reacting on the objective function; relationships between reactive search and reinforcement learning; and much more. Each chapter is structured to show basic issues and algorithms; the parameters critical for the success of the different methods discussed; and opportunities for the automated tuning of these parameters.

Telecommunications Modeling, Policy, and Technology

Springer Science & Business Media *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.*

Graphs, Dioids and Semirings New Models and Algorithms

Springer Science & Business Media *The primary objective of this essential text is to emphasize the deep relations existing between the semiring and dioid structures with graphs and their combinatorial properties. It does so at the same time as demonstrating the modeling and problem-solving flexibility of these structures. In addition the book provides an extensive overview of the mathematical properties employed by "nonclassical" algebraic structures which either extend usual algebra or form a new branch of it.*

Vehicle Routing Problems, Methods, and Applications, Second Edition

SIAM *Vehicle routing problems, among the most studied in combinatorial optimization, arise in many practical contexts (freight distribution and collection, transportation, garbage collection, newspaper delivery, etc.). Operations researchers*

have made significant developments in the algorithms for their solution, and Vehicle Routing: Problems, Methods, and Applications, Second Edition reflects these advances. The text of the new edition is either completely new or significantly revised and provides extensive and complete state-of-the-art coverage of vehicle routing by those who have done most of the innovative research in the area; it emphasizes methodology related to specific classes of vehicle routing problems and, since vehicle routing is used as a benchmark for all new solution techniques, contains a complete overview of current solutions to combinatorial optimization problems. It also includes several chapters on important and emerging applications, such as disaster relief and green vehicle routing.

Operations Research and Cyber-Infrastructure

Springer Science & Business Media Operations Research and Cyber-Infrastructure is the companion volume to the Eleventh INFORMS Computing Society Conference (ICS 2009), held in Charleston, South Carolina, from January 11 to 13, 2009. It includes 24 high-quality refereed research papers. As always, the focus of interest for ICS is the interface between Operations Research and Computer Science, and the papers in this volume reflect that interest. This is naturally an evolving area as computational power increases rapidly while decreasing in cost even more quickly, and the papers included here illustrate the wide range of topics at this interface.

Transport Systems and Processes

Marine Navigation and Safety of Sea Transportation

CRC Press The TransNav 2011 Symposium held at the Gdynia Maritime University, Poland in June 2011 has brought together a wide range of participants from all over the world. The program has offered a variety of contributions, allowing to look at many aspects of the navigational safety from various different points of view. Topics presented and discussed at th

The Vehicle Routing Problem: Latest Advances and New Challenges

Springer Science & Business Media In a unified and carefully developed presentation, this book systematically examines recent developments in VRP. The book focuses on

a portfolio of significant technical advances that have evolved over the past few years for modeling and solving vehicle routing problems and VRP variations. Reflecting the most recent scholarship, this book is written by one of the top research scholars in Vehicle Routing and is one of the most important books in VRP to be published in recent times.

Learning and Intelligent Optimization

4th International Conference, LION
4, Venice, Italy, January 2010.

Selected Papers

Springer In parallel to the printed book, each new volume is published electronically in LNCS Online. --Book Jacket.

Mobile Computing

Technology and Applications

BoD - Books on Demand Nowadays, mobile communication services are penetrating into our society at an explosive growth rate. Applications in mobile devices offer limitations, restriction, and guidelines on how mobile software can be used in order to simplify the mobile usage. As smart phones and tablets are becoming the daily computing device of choice for young ages, it is expected that mobile applications and services should be as flexible, high quality, and secure as the desktop systems. In this book, latest trends in mobile computing will be discussed. In the first section, cloud computing topics will be discussed widely into four chapters to give information to the reader about topics such as challenges, services, edge computing, and distributed clouds needed to integrate this promising issue into the next generation.

Schedule-Based Modeling of Transportation Networks

Theory and applications

Springer Science & Business Media "*Schedule-Based Modeling of Transportation Networks: Theory and Applications*" follows the book *Schedule-Based Dynamic Transit Modeling*, published in this series in 2004, recognizing the critical role that schedules play in transportation systems. Conceived for the simulation of transit systems, in the last few years the schedule-based approach has been expanded and applied to operational planning of other transportation schedule services besides mass transit, e.g. freight transport. This innovative approach allows forecasting the evolution over time of the on-board loads on the services and their time-varying performance, using credible user behavioral hypotheses. It opens new frontiers in transportation modeling to support network design, timetable setting, and investigation of congestion effects, as well as the assessment of such new technologies, such as users system information (ITS technologies).

Cellular Genetic Algorithms

Springer Science & Business Media *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.

Advances in Grid and Pervasive Computing

5th International Conference, CPC 2010, Hualien, Taiwan, May 10-13, 2010, Proceedings

Springer This book constitutes the proceedings of the 5th International Conference, CPC 2010, held in Hualien, Taiwan in May 2010. The 67 full papers are carefully selected from 184 submissions and focus on topics such as cloud and Grid computing, peer-to-peer and pervasive computing, sensor and moile networks, service-oriented computing, resource management and scheduling, Grid and pervasive applications, semantic Grid and ontologies, mobile commerce and services.

Advanced Approaches to Intelligent Information and Database Systems

Springer This book consists of 35 chapters presenting different theoretical and practical aspects of Intelligent Information and Database Systems. Nowadays both Intelligent and Database Systems are applied in most of the areas of human activities which necessitates further research in these areas. In this book various interesting issues related to the intelligent information models and methods as well as their advanced applications, database systems applications, data models and their analysis and digital multimedia methods and applications are presented and discussed both from the practical and theoretical points of view. The book is organized in four parts devoted to intelligent systems models and methods, intelligent systems advanced applications, database systems methods and applications and multimedia systems methods and applications. The book will be interesting for practitioners and researchers, especially graduate and PhD students of information technology and computer science, as well more experienced academics and specialists interested in developing and verification of intelligent information, database and multimedia systems models, methods and applications. The readers of this volume are enabled to find many inspiring ideas and motivating practical examples that will help them in the current and future work.

Safety and Security of Cyber-Physical Systems

Engineering dependable Software using Principle-based Development

Springer Nature Cyber-physical systems (CPSs) consist of software-controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators. A CPS has, therefore, two parts: The cyber part implementing most of the functionality and the physical part, i.e., the real world. Typical examples of CPS's are a water treatment plant, an unmanned aerial vehicle, and a heart pacemaker. Because most of the functionality is implemented in software, the software is of crucial importance. The software determines the functionality and many CPS properties, such as safety, security, performance, real-time behavior, etc. Therefore, avoiding safety accidents and security incidents in the CPS requires highly dependable software. Methodology Today, many methodologies for developing safe and secure software are in use. As software engineering slowly becomes disciplined and mature, generally accepted construction principles have emerged. This monograph advocates principle-based engineering for the

development and operation of dependable software. No new development process is suggested, but integrating security and safety principles into existing development processes is demonstrated. Safety and Security Principles At the core of this monograph are the engineering principles. A total of 62 principles are introduced and catalogized into five categories: Business & organization, general principles, safety, security, and risk management principles. The principles are rigorous, teachable, and enforceable. The terminology used is precisely defined. The material is supported by numerous examples and enriched by illustrative quotes from celebrities in the field. Final Words «In a cyber-physical system's safety and security, any compromise is a planned disaster» Audience First, this monograph is for organizations that want to improve their methodologies to build safe and secure software for mission-critical cyber-physical systems. Second, the material is suitable for a two-semester, 4 hours/week, advanced computer science lecture at a Technical University. This textbook has been recommended and developed for university courses in Germany, Austria and Switzerland.

Supply Chain Management Based on SAP Systems

Order Management in Manufacturing Companies

Springer Science & Business Media *Since SAP is emphasizing recent developments in operations management in its SCM initiative, this book describes the methodological background from the viewpoint of a company using SAP systems. It describes order processing both in an intra- and interorganizational perspective, as well as describing future developments and system enhancements.*

E-Mobility in Europe

Trends and Good Practice

Springer *Focusing on technical, policy and social/societal practices and innovations for electrified transport for personal, public and freight purposes, this book provides a state-of-the-art overview of developments in e-mobility in Europe and the West Coast of the USA. It serves as a learning base for further implementing and commercially developing this field for the benefit of society, the environment and public health, as well as for economic development and private industry. A fast-growing, interdisciplinary sector, electric mobility links engineering, infrastructure, environment, transport and sustainable development. But despite the relevance of the topic, few publications have ever attempted to document or promote the wide range of electric mobility initiatives and projects taking place today. Addressing this*

need, this publication consists of case studies, reports on technological developments and examples of successful infrastructure installation in cities, which document current initiatives and serve as an inspiration for others.

Telematics and Transport Behaviour

Springer Science & Business Media A major strategy to reduce transport congestion and other social costs of transport is to ensure that travellers make the best decisions, based on real time information. A wide range of technological systems have been developed to provide this information, but little is known about how travellers actually respond to it. This book offers an overview of various transport telematics options and provides an appropriate methodological framework, followed by a presentation of results from actual applications of these telematics systems from a range of European countries in various transport sectors. The empirical results are supplemented by analytical models and geographic information systems representations with a view on generalizing these findings and identifying the key parameters which determine user response.

Advances in Human Aspects of Transportation: Part II

AHFE International (USA) Human Factors and Ergonomics have made a considerable contribution to the research, design, development, operation and analysis of transportation systems which includes road and rail vehicles and their complementary infrastructure, aviation and maritime transportation. This book presents recent advances in the Human Factors aspects of Transportation. These advances include accident analysis, automation of vehicles, comfort, distraction of drivers (understanding of distraction and how to avoid it), environmental concerns, in-vehicle systems design, intelligent transport systems, methodological developments, new systems and technology, observational and case studies, safety, situation awareness, skill development and training, warnings and workload. This book brings together the most recent human factors work in the transportation domain, including empirical research, human performance and other types of modeling, analysis, and development. The issues facing engineers, scientists, and other practitioners of human factors in transportation research are becoming more challenging and more critical. The common theme across these sections is that they deal with the intersection of the human and the system. Moreover, many of the chapter topics cross section boundaries, for instance by focusing on function allocation in NextGen or on the safety benefits of a tower controller tool. This is in keeping with the systemic nature of the problems facing human factors experts in rail and road, aviation and maritime research- it is becoming increasingly important to view problems not as isolated issues that can be extracted from the system

environment, but as embedded issues that can only be understood as a part of an overall system.

Human Factors in Transportation Social and Technological Evolution Across Maritime, Road, Rail, and Aviation Domains

CRC Press More and more the most traditional and typical applied ergonomics issues of the activities related to sea shipping, vehicle driving, and flying are required to deal with some emerging topics related to the growing automatism and manning reduction, the ICT's advances and pervasiveness, and the new demographic and social phenomena, such as aging or multiculturalism. With contributions from expert researchers, professionals, and doctoral students from a wide number of countries such as Australia, Austria, Canada, Italy, Germany, the Netherlands, Norway, Sweden, UK and USA, this multi-contributed book will explore traditional and emerging topics of Human Factors centered around the maritime, road, rail, and aviation transportation domains.

International Symposium on Distributed Computing and Artificial Intelligence

Springer Science & Business Media The International Symposium on Distributed Computing and Artificial Intelligence 2011 (DCAI 2011) is a stimulating and productive forum where the scientific community can work towards future cooperation on Distributed Computing and Artificial Intelligence areas. This conference is the forum in which to present application of innovative techniques to complex problems. Artificial intelligence is changing our society. Its application in distributed environments, such as internet, electronic commerce, environment monitoring, mobile communications, wireless devices, distributed computing, to cite some, is continuously increasing, becoming an element of high added value with social and economic potential, both industry, life quality and research. These technologies are changing constantly as a result of the large research and technical effort being undertaken in universities, companies. The exchange of ideas between scientists and technicians from both academic and industry is essential to facilitate the development of systems that meet the demands of today's society. This edition of DCAI brings together past experience, current work and promising future trends associated with distributed computing, artificial intelligence and their application to

provide efficient solutions to real problems. This symposium is organized by the Bioinformatics, Intelligent System and Educational Technology Research Group (<http://bisite.usal.es/>) of the University of Salamanca. The present edition has been held in Salamanca, Spain, from 6 to 8 April 2011.

Activities of Transport Telematics

13th International Conference on Transport Systems Telematics, TST 2013, Katowice-Ustron, Poland, October 23--26, 2013. Proceedings

Springer This book constitutes the proceedings of the 13th International Conference on Transport Systems Telematics, TST 2013, held in Katowice-Ustron, Poland, in October 2013. The 58 papers included in this volume were carefully reviewed and selected for inclusion in this book. They provide an overview of solutions being developed in the field of intelligent transportation systems, and include theoretical and case studies in the countries of conference participants.

Big Data Analytics for Smart and Connected Cities

IGI Global To continue providing people with safe, comfortable, and affordable places to live, cities must incorporate techniques and technologies to bring them into the future. The integration of big data and interconnected technology, along with the increasing population, will lead to the necessary creation of smart cities. *Big Data Analytics for Smart and Connected Cities* is a pivotal reference source that provides vital research on the application of the integration of interconnected technologies and big data analytics into the creation of smart cities. While highlighting topics such as energy conservation, public transit planning, and performance measurement, this publication explores technology integration in urban environments as well as the methods of planning cities to implement these new technologies. This book is ideally designed for engineers, professionals, researchers, and technology developers seeking current research on technology implementation in urban settings.

Vehicle Feedback and Driver

Situation Awareness

CRC Press A potentially troubling aspect of modern vehicle design - some would argue - is a trend for isolating the driver and reducing vehicle feedback, usually in the name of comfort and refinement but increasingly because of automation. There is little doubt cars have become more civilised over the years, yet despite this, the consequences of driver behaviour remain to a large extent anecdotal. Readers will have heard such anecdotes for themselves. They usually take the form of drivers of a certain age recalling their first cars from the 1970s or 80s, in which "doing 70 mph really felt like it". The question is whether such anecdotes actually reflect a bigger, more significant issue that could be better understood. Related questions have been explored in other domains such as aviation, where the change to 'fly-by-wire' did indeed bring about some occasionally serious performance issues that were not anticipated. Despite some clear parallels, automotive systems have been left relatively unstudied. The research described in this book aims to explore precisely these issues from a Human Factors perspective. This means connecting the topics of vehicle feel, vehicle dynamics, and automotive engineering with the latest research on driver situation awareness. The problem is explored experimentally from a variety of theoretical viewpoints but the outcomes are consistently practical. Here we have a promising new avenue along which the driver experience can be enhanced in novel and insightful ways. Tools and templates are provided so that engineers and designers can try different ways to boost vehicle safety, efficiency and enjoyment from a human-centered perspective. Association of American Publishers (AAP) Finalist for the 2019 PROSE Award Features Diagnosis of how vehicle feel impacts driver situation awareness, and how this could aid future vehicle designs Multi-theory approach to driver situation awareness, and how different views of this important concept give rise to different insights Comprehensive analysis of situation awareness in driving, the information requirements of drivers, and how these needs can be supported Practical descriptions of how state-of-science Human Factors methods have been applied in practice

WisDOT IVHS Strategic Plan

The Wisconsin Department of Transportation Intelligent Vehicle Highway Systems Strategic Plan

2010

de Gruyter

Dynamic Fleet Management Concepts, Systems, Algorithms & Case Studies

Springer Science & Business Media *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.*

Advanced public transportation systems : the state of the art : update 2000

DIANE Publishing

Mobile Virtual Work A New Paradigm?

Springer Science & Business Media *Dear Reader This is a book about mobile virtual work. It aims at clarifying the basic concepts and showing present practices and future challenges. The roots of the book are in the collaboration of few European practitioners and - searchers, who met each other under the umbrella of the Swedish SALTSA programme (see next page) in January 2002 in Stockholm. The group was first called 'ICT, Mobility and Work Organisation' but redefined itself quickly as 'Mobile Virtual Cooperative Work' group. The change of the name reflects the development of reasoning in the group. We could not find much material on mobile work, certainly not systematic studies, - though a growing interest in mobile technologies and services could be found. Practices of telework and virtual organizations were better known, but we were convinced that the combination with mobile work was so- thing different and new. Our main target became to understand what it was all about. The next step was an expert meeting in October 2004 at Rånäs*

Castle again in Sweden. A wider group of experts was invited to present their views on mobile virtual work and ideas about book chapters from different perspectives of working life. Some of the expertise could be found through the network of the AMI@Work family created by the New Working Environments unit of the European Commission's Information Society Directorate-General. Also close collaboration was developed with the related MOSAIC program.

Societal Impacts on Information Systems Development and Applications

IGI Global "This book has collected research from experts from around the world in a variety of sectors, in the form of case studies, frameworks, architectures, methodologies, and best practices to show the latest societal impacts on information systems development in its various applications"--Provided by publisher.

Modelling Public Transport Passenger Flows in the Era of Intelligent Transport Systems COST Action TU1004 (TransITS)

Springer This book shows how transit assignment models can be used to describe and predict the patterns of network patronage in public transport systems. It provides a fundamental technical tool that can be employed in the process of designing, implementing and evaluating measures and/or policies to improve the current state of transport systems within given financial, technical and social constraints. The book offers a unique methodological contribution to the field of transit assignment because, moving beyond "traditional" models, it describes more evolved variants that can reproduce: • intermodal networks with high- and low-frequency services; • realistic behavioural hypotheses underpinning route choice; • time dependency in frequency-based models; and • assumptions about the knowledge that users have of network conditions that are consistent with the present and future level of information that intelligent transport systems (ITS) can provide. The book also considers the practical perspective of practitioners and public transport operators who need to model and manage transit systems; for example, the role of ITS is explained with regard to their potential in data collection for modelling purposes and validation techniques, as well as with regard to the additional data on network patronage and passengers' preferences that influences the network-management and control strategies implemented. In addition, it

explains how the different aspects of network operations can be incorporated in traditional models and identifies the advantages and disadvantages of doing so. Lastly, the book provides practical information on state-of-the-art implementations of the different models and the commercial packages that are currently available for transit modelling. Showcasing original work done under the aegis of the COST Action TU1004 (TransITS), the book provides a broad readership, ranging from Master and PhD students to researchers and from policy makers to practitioners, with a comprehensive tool for understanding transit assignment models.

Quality and Accuracy of Positional Data in Transportation

Transportation Research Board

Urban Transport XXII

WIT Press Containing studies from all over the world Urban Transport XXII consists of papers presented at the 22nd International Conference on Urban Transport and the Environment. The conference has been successfully held annually since it first started in Southampton in 1995. Transportation in urban areas, with its related environmental and social impacts, is a topic of significant concern for policymakers in both municipal and central government and for the urban citizens who need effective and efficient transport systems. Urban transport systems require considerable studies to devise and then safeguard their operational use, maintenance and safety. Transportation systems produce significant environmental impacts and can enhance or degrade the quality of life in urban centres. A distinctive element of the Urban Transport and the Environment series is the interaction between academic and practical perspectives where theories and ideas are debated and their practical applications rigorously tested. Clearly the issue of providing effective and efficient transport systems in the urban setting remains an acute challenge with financial, political and environmental constraints limiting the ability of transport system planners and operators to deliver the high quality outcomes expected by the public. Topics covered include: Environmental impact; Environmentally friendly transport modes; Transport strategies; Public transport systems; Transport modelling; Urban transport simulation; Transport safety and security; Infrastructure; Intermodal transport systems; Port and airport cities; Land use and transport integration; Transport policy and regulations; Experiences from emerging countries; Non-motorized transport models; Intelligent transport systems; Electromobility; Mobility and urban space; Sustainability and resilience; Emerging transport systems; Energy efficiency.

Intelligent and Fuzzy Systems

Digital Acceleration and The New Normal - Proceedings of the INFUS 2022 Conference, Volume 2

Springer Nature *This book presents recent research in intelligent and fuzzy techniques on digital transformation and the new normal, the state to which economies, societies, etc. settle following a crisis bringing us to a new environment. Digital transformation and the new normal-appearing in many areas such as digital economy, digital finance, digital government, digital health, and digital education are the main scope of this book. The readers can benefit from this book for preparing for a digital “new normal” and maintaining a leadership position among competitors in both manufacturing and service companies. Digitizing an industrial company is a challenging process, which involves rethinking established structures, processes, and steering mechanisms presented in this book. The intended readers are intelligent and fuzzy systems researchers, lecturers, M.Sc., and Ph.D. students studying digital transformation and new normal. The book covers fuzzy logic theory and applications, heuristics, and metaheuristics from optimization to machine learning, from quality management to risk management, making the book an excellent source for researchers.*