

Modelling Public Transport Passenger Flows In The Era Of Intelligent Transport Systems Cost Action Tu1004 Transits Springer Tracts On Transportation And Traffic

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Green, Smart and Connected Transportation Systems Wuhong Wang 2020-03-23 These proceedings gather selected papers from the 9th International Conference on Green Intelligent Transportation Systems and Safety, held in Guilin, China on July 1-3, 2018. They feature cutting-edge studies on Green Intelligent Mobility Systems, the guiding motto being to achieve “green, intelligent, and safe transportation systems.” The contributions presented here can help promote the development of green mobility and intelligent transportation technologies to improve interconnectivity, resource sharing, flexibility and efficiency. Given its scope, the book will benefit researchers and engineers in the fields of Transportation Technology and Traffic Engineering, Automotive and Mechanical Engineering, Industrial and System Engineering, and Electrical Engineering alike.

The 2021 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy John Macintyre 2021 This book presents the proceedings of the 2020 2nd International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy (SPIoT-2021), online conference, on 30 October 2021. It provides comprehensive coverage of the latest advances and trends in information technology, science and engineering, addressing a number of broad themes, including novel machine learning and big data analytics methods for IoT security, data mining and statistical modelling for the secure IoT and machine learning-based security detecting protocols, which inspire the development of IoT security and privacy technologies. The contributions cover a wide range of topics: analytics and machine learning applications to IoT security; data-based metrics and risk assessment approaches for IoT; data confidentiality and privacy in IoT; and authentication and access control for data usage in IoT. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals and provides a useful reference guide for newcomers to the IoT security and privacy field.

Technological and Industrial Applications Associated with Intelligent Logistics Alberto Ochoa-Zezzatti 2021-09-08 This book helps the reader to identify how different organizations in the context of diverse societies deploy their resources and leverage their capabilities to achieve better performance of its various labor skills, marketing, social responsibility and management capacity. Intelligent Logistics is a complex phenomenon that has become critical for companies to reach their development locally and internationally. On the one hand, macro-factors and market structure influence in business competitiveness, but also in a regional or sector context. The internal aspects and the use of various business tools contribute to the ability to create value in an organization. It is of utmost importance to understand the relevance of crucial aspects in the technological future that should be known and implemented by the Z generation of its incidence in the use of organizational models linked to artificial intelligence. Every innovative aspect in the use of new technologies for the distribution of goods and services will be crucial in a globalized world. An avant-garde society will require improved decision-making regarding Logistics 4.0 and its implementation in our lives respecting the environment and being sustainable together with invaluable principles of generating tacit knowledge for future generations.

Modelling Freight Transport Lorant A. Tavasszy 2013-10-15 Freight Transport Modelling is a unique new reference book that provides insight into the state-of-the-art of freight modelling. Focusing on models used to support public transport policy analysis, Freight Transport Modelling systematically introduces the latest freight transport modelling approaches and describes the main methods and techniques used to arrive at operational models. As freight transport has grown exponentially in recent decades, policymakers now need to include freight flows in quantitative evaluations of transport systems. Whereas early freight modelling practice was inspired by passenger transport models, by now it has developed its separate stream of methods and techniques inspired by disciplines such as economic geography and supply chain management. Besides summarizing the latest achievements in fundamental research, this book describes the state of practice and advises practitioners on how to cope with typical challenges such as limitations in data availability. Uniquely focused book exploring the key issues and logistics of freight transport modelling Highlights the latest approaches and describes the main methods and techniques used to arrive at operational models Summarizes fundamental research into freight transport modeling, as well as current practices and advice for practitioners facing day-to-day challenges

Advances in Emerging Trends and Technologies Miguel Botto-Tobar 2019-10-12 This book constitutes the proceedings of the 1st International Conference on Advances in Emerging Trends and Technologies (ICAETT 2019), held in Quito, Ecuador, on 29–31 May 2019, jointly organized by Universidad Tecnológica Israel, Universidad Técnica del Norte, and Instituto Tecnológico Superior Rumiñahui, and supported by SNOTRA. ICAETT 2019 brought together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: Technology Trends Electronics Intelligent Systems Machine Vision Communication Security e-Learning e-Business e-Government and e-Participation

2013 International Conference on Electrical, Control and Automation Engineering(ECAE2013) Dr. S. Momani 2014-01-07 2013 International Conference on Electrical, Control and Automation Engineering(ECAE2013) aims to provide a forum for accessing to the most up-to-date and authoritative knowledge from both Electrical, Control and Automation Engineering. ECAE2013 features unique mixed topics of Electrical Engineering, Automation, Control Engineering and so on. The goal of this conference is to bring researchers, engineers, and students to the areas of Electrical, Control and Automation Engineering to share experiences and original research contributions on those topics. Researchers and practitioners are invited to submit their contributions to ECAE2013

Urban Transport XIII C. A. Brebbia 2007 The continuing requirement for better urban transport systems and the need for a healthier environment

have led to an increased level of research around the world. This is reflected in the proceedings presented at the well-established International Conference on Urban Transport and the Environment in the 21st Century. This volume presents the steady growth in research into urban transport and will be of particular interest to engineers, scientists and managers working in industry, universities, research organizations and government; involved in the planning and management of urban transportation systems and transport policy. The variety of topics covered are of primary importance for analysing the complex interaction in the urban transport environment and for establishing action strategies for transport and traffic problems. Featured topics include: Transport Modelling and Simulation; Public Transport Systems; Traffic Integration and Control; Infrastructure and Maintenance; Transport Sustainability; Environment and Ecological Aspects; Air and Noise Pollution; Energy and Transport Fuels; Transport Security and Safety; Road and Parking Pricing; Economic and Social Impact; Land Use and Transport Integration; Advanced Transport Systems; Transportation Demand Analysis.

Intelligent Transportation Systems (ITS) Beatriz L. Boada 2021-04-22 This book presents collective works published in the recent Special Issue (SI) entitled "Intelligent Transportation Systems (ITS)". These works address problems of mobility, environmental pollution, and road safety, as well as their related applications. The presented problems are complex and involve a large number of research areas and many advanced technologies, such as communication, sensing, and control, which are used for managing a large amount of information. The applications vary and include fleet management, driving behavior, traffic control, trajectory planning, connected vehicles, and energy consumption efficiency. Recent advances in communication technologies are becoming fundamental for the development of new advances in fleet management, traffic control, and connected vehicles. This work collected in this Special Issue propose solution methodologies to address such challenges, analyze the proposed methodologies, and evaluate their performance. This book brings together a collection of multidisciplinary works applied to ITS applications in a coherent manner.

Society 5.0: Human-Centered Society Challenges and Solutions Alla G. Kravets 2022-05-04 This book focuses on open issues of Society 5.0, a new paradigm of a society that balances a human-centred approach and technologies based on cyber-physical systems and artificial intelligence. The book contains results of how intelligent or cyber-physical systems help to improve the quality of life in society despite new challenges. Discusses implemented breakthrough systems, models, programs, and methods that cover the following topics: biomedicine and healthcare, innovations in socio-economic systems, intelligent energetics, advances in transport systems, human-centric technologies. These approaches help to improve human society using cyber-physical systems in a dramatically changing environment. The target audience of the book are practitioners, enterprises representatives, scientists, PhD and Master students who perform scientific research on the application of cyber-physical systems towards Society 5.0.

Modelling Passenger Flows in Public Transport Facilities Winnie Daamen 2004 "This is a Ph.D. thesis. Until the early seventies of the last century, pedestrian traffic has hardly been subject of research. About that time, researchers started studying pedestrian behavior more intensively, first by watching and deriving (simple) theories and models from what they observed techniques became available, computers became faster and could handle larger and more complicated models, the number of available pedestrian models as well as their application scope and accuracy increased significantly. Contents include: Introduction, User requirements of a pedestrian flow simulation tool, State-of-the-art pedestrian flow theory, Laboratory experiments on pedestrian walking behavior, Identification of processes and elements in a pedestrian flow model, models for pedestrian behavior in public transport facilities, Implementation of a pedestrian flow simulation model, Verification and validation of SimPed, Case studies with SimPed, Conclusions, Bibliography: SimPed input and output, Set up and test of the laboratory experiments, Dynamic quality of the route choice model, Comparison of SimPed walking model with traffic flow theory and shock-wave theory, Data collection for validation of SimPed."

The Routledge Handbook of Transport Economics Jonathan Cowie 2017-08-07 The Routledge Handbook of Transport Economics offers the first state of the art overview of the discipline of transport economics as it stands today, reflective of key research and policy. Transport is an important area of study and one which is problem rich, stimulating a great deal of debate in areas which impact on everyday lives. Much of this focuses on the practicalities of the modern-day phenomenon of mass movement and all of the issues which surround it. The discipline of economics is central to this debate, and consequently the study and application of transport economics has a chief role to play in seeking to address subjects relating to major transport issues. It can be argued that at the very heart of any transport issue or problem lies the underlying economics of the situation – understand that and you alleviate the problem. Featuring contributions from world-leading scholars and practitioners from across the globe, all of the chapters within this book are written from a practical perspective; theory is applied and developed using real-world examples. The book examines concepts, issues, ideas and practicalities of transport provision in five key topic areas: public transport public transport reform economic development and transport modelling transport and the environment freight transport. A real strength of the book is in linking theory to practice, and hence the 'economics' that are examined in this text are not the economics of the abstract, but rather the economics of everyday living. Practical and insightful, this volume is an essential reference for any student or researcher working in all areas of transport provision, ranging from planning, appraisal, regulation and freight; and for all practitioners looking to develop their professional knowledge and who are seeking professional accreditation.

Information Technologies and Mathematical Modelling Alexander Dudin 2014-11-04 This book constitutes the refereed proceedings of the 13th International Scientific Conference on Information Technologies and Mathematical Modeling, named after A.F. Terpugov, ITMM 2014, Anzhero-Sudzhensk, Russia, held in Anzhero-Sudzhensk, Russia, in November 2014. The 50 full papers included in this volume were carefully reviewed and selected from 254 submissions. The papers focus on probabilistic methods and models, queueing theory, telecommunication systems, and software engineering.

Dynamics and Stochasticity in Transportation Systems Giulio Cantarella 2019-11-27 Dynamics and Stochasticity in Transportation Systems: Solutions for Transportation Network Modeling breaks new ground on the topics, providing consistent and comprehensive coverage of steady state equilibrium and dynamic assignment within a common strategy. The book details the most recent advances in network assignment, including day-to-day and within-day dynamics, providing a solid foundation to help transportation planners solve transient overload and other problems. Users will find a book that fills the gap in knowledge with its description on how to use and employ the latest dynamic network models for evaluation of traffic and transport demand interventions. This book demystifies the many different dynamic traffic assignment approaches and requires no previous knowledge on the part of the reader. All results are fully described and proven, thus eliminating the need to seek out other references. The skills described will appeal to transportation professionals, researchers and graduate students alike. Presents a consistent and comprehensive theory on steady state equilibrium assignment and day-to-day dynamic assignment models within a common framework Describes and solves modeling calculations in detail, with no need to reference other sources Includes numerical and graphical examples, text boxes and summaries at the end of each chapter to help readers better understand theoretical components Includes primary mathematical tools necessary for each dynamic model, easing comprehension

Advanced Concepts, Methodologies and Technologies for Transportation and Logistics Jacek Żak 2017-07-03 This book is a collection of original papers produced by the members of the Euro Working Group on Transportation (EWGT) in the last several years (2015–2017). The respective

chapters present the results of various research projects carried out by the members of the EWGT and extended versions of presentations given at the last several meetings of the EWGT. The book offers a representative sampling of the EWGT's research activities and covers the state-of-the-art in quantitative oriented transportation/logistics research. It highlights a range of advanced concepts, methodologies and technologies, divided into four major thematic streams: Multiple Criteria Analysis in Transportation and Logistics; Urban Transportation and City Logistics; Road Safety and Artificial Intelligence and Soft Computing in Transportation and Logistics. The book is intended for academics/researchers, analysts, business consultants, and graduate students who are interested in advanced techniques of mathematical modeling and computational procedures applied in transportation and logistics.

Equilibrium and Advanced Transportation Modelling P. Marcotte 2013-06-29 Each chapter in *Equilibrium and Advanced Transportation Modelling* develops a topic from basic concepts to the state-of-the-art, and beyond. All chapters relate to aspects of network equilibrium. Chapter One advocates the use of simulation models for the representation of traffic flow movements at the microscopic level. Chapter Two presents travel demand systems for generating trip matrices from activity-based models, taking into account the entire daily schedule of network users. Chapter Three examines equilibrium strategic choices adopted by the passengers of a congested transit system, carefully addressing line selection at boarding and transfer nodes. Chapter Four provides a critical appraisal of the traditional process that consists in sequentially performing the tasks of trip generation, trip distribution, mode split and assignment, and its impact on the practice of transportation planning. Chapter Five gives an insightful overview of stochastic assignment models, both in the static and dynamic cases. Chapters Six and Seven investigate the setting of tolls to improve traffic flow conditions in a congested transportation network. Chapter Eight provides a unifying framework for the analysis of multicriteria assignment models. In this chapter, available algorithms are summarized and an econometric perspective on the estimation of heterogeneous preferences is given. Chapter Nine surveys the use of hyperpaths in operations research and proposes a new paradigm of equilibrium in a capacitated network, with an application to transit assignment. Chapter Ten analyzes the transient states of a system moving towards equilibrium, using the mathematical framework of projected dynamical systems. Chapter Eleven discusses an in-depth survey of algorithms for solving shortest path problems, which are pervasive to any equilibrium algorithm. The chapter devotes special attention to the computation of dynamic shortest paths and to shortest hyperpaths. The final chapter considers operations research tools for reducing traffic congestion, in particular introducing an algorithm for solving a signal-setting problem formulated as a bilevel program.

The Routledge Handbook of Public Transport Corinne Mulley 2021-05-13 *The Routledge Handbook of Public Transport* is a reference work of chapters providing in-depth examination of the current issues and future developments facing public transport. Chapters in this book are dedicated to specific key topics, identifying the challenges therein and pointing to emerging areas of research and concern. The content is written by an international group of expert contributors and is enhanced through contributions from practitioners to deliver a broader perspective. The Handbook deals with public transport policy context, modal settings, public transport environment, public transport delivery issues, smart card data for planning and the future of public transport. This comprehensive reference work will be a vital source for academics, researchers and transport practitioners in public transport management, transport policy and transport planning.

Man-Machine-Environment System Engineering Shengzhao Long 2018-09-24 These proceedings showcase the best papers selected from more than 500 submissions, and introduce readers to the hottest research topics and the latest developmental trends in the theory and application of MMESE. The integrated and advanced science research topic Man-Machine-Environment System Engineering (MMESE) was first established in China by Professor Shengzhao Long in 1981, with direct support from one of the greatest modern Chinese scientists, Xuesen Qian. In a letter to Long from October 22nd, 1993, Qian wrote: "You have created a very important modern science and technology in China!" MMESE primarily focuses on the relationship between Man, Machine and Environment, studying the optimum combination of man-machine-environment systems. In this system, "Man" refers to working people as the subject in the workplace (e.g. operators, decision-makers); "Machine" is the general name for any object controlled by Man (including tools, machinery, computers, systems and technologies), and "Environment" describes the specific working conditions under which Man and Machine interact (e.g. temperature, noise, vibration, hazardous gases etc.). The three main goals of optimizing man-machine-environment systems are to ensure safety, efficiency and economy. These proceedings present interdisciplinary studies on essential concepts and methods from physiology, psychology, system engineering, computer science, environmental science, management, education, and other related disciplines. As such, they offer a valuable resource for all researchers and professionals whose work involves interdisciplinary areas touching on MMESE subjects.

Modelling Public Transport Passenger Flows in the Era of Intelligent Transport Systems Guido Gentile 2016-02-03 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.

Histocity Book M. Antonietta Esposito 2000

Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery Yong Liu 2019-11-06 This book discusses the recent advances in natural computation, fuzzy systems and knowledge discovery. Presenting selected, peer-reviewed papers from the 15th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-FSKD 2019), held in Kunming, China, from 20 to 22 July 2019, it is a useful resource for researchers, including professors and graduate students, as well as R&D staff in industry.

New Methods, Reflections and Application Domains in Transport Appraisal Volume 7 in the *Advances in Transport Policy and Planning* series, assesses both successful and unsuccessful practices and policies from around the world. Chapters in this new release include Evaluating transport equity, Participatory Value Evaluation, Sustainability assessment of transport policies, plans and projects, Deliberative appraisal methods, Appraisal methods of public transport projects, Appraisal of cycling and pedestrian projects, Appraisal of Freight Project, Project appraisal methods: tools for optimizing or for informed political debate?,

and Research agenda for appraisal methods. Provides the authority and expertise of leading contributors from an international board of authors
Presents the latest release in the Advances in Transport Policy and Planning series

Public Transit Planning and Operation Avishai Ceder 2016-03-09 Addresses the Challenges Facing Public Transport Policy Makers and Operators
Public Transit Planning and Operation: Modeling, Practice and Behavior, Second Edition offers new solutions for delivering both better services and greater efficiency, solutions which have been developed and tested by the author in over thirty years of research work with mass transit policy makers and operators all over the world. It bridges the worlds of practice and research and academia, provides an overview and a critique of currently used operational planning methods, and furnishes innovative practical techniques and modeling. Improve Service Performance and Successfully Manage the Costs of Operation This new edition brings in new material on timetabling and vehicle scheduling with different vehicle sizes, new methods of designing transit route networks, analysis of transit coordination and connectivity, behavioral aspects of passengers including when making transfers, and innovative methods related to automation and optimization which can be used in real time to significantly improve service reliability. Combines academic research with real-world project experience Focuses on issues encountered in practice Provides unique coverage of the field
Public Transit Planning and Operation: Modeling, Practice and Behavior, Second Edition incorporates a series of themes and new ways of thinking about planning and operation. Bridging the gap between theory and application, this text outlines the factors affecting public-transport services, addresses common problems, and offers practical solutions for improvement.

Reliability and Statistics in Transportation and Communication Igor Kabashkin 2019-03-09 This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multi-disciplinary approaches to dependability problems encountered when dealing with complex systems in practice. The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication (RelStat), which took place in Riga, Latvia on October 17 – 20, 2018. It spans a broad spectrum of topics, from mathematical models and design methodologies, to software engineering, data security and financial issues, as well as practical problems in technical systems, such as transportation and telecommunications, and in engineering education.

Symmetry in Mathematical Analysis and Application Luigi Rodino 2020-07-01 This book appeals to scientists, teachers and graduate students in mathematics, and will be of interest for scholars in applied sciences as well, in particular in medicine, biology and social sciences. The models in this connection apply, in particular, to the study of the immune system response and to the predator–prey dynamic. The efficiency of public transport is also considered and blast waves in explosions are studied. Other contributions concern pure mathematics, in particular Pythagorean means, sequences of matrices and Markov chains, and these give evidence of deep links with Symmetry.

Eco-design of Buildings and Infrastructure Bruno Peuportier 2016-11-03 The Chair on Ecodesign for buildings and infrastructures was created by ParisTech in partnership with VINCI with the aim of developing evaluation and simulation tools that integrate all ecodesign aspects (e.g. greenhouse gas emissions, impact on biodiversity, depletion of resources, etc.) and provide genuine decision-aid instruments, based on a scientific approach, to all those involved in the urban environment (i.e. designers, builders and users). The present book takes stock of five years of research under the Chair. It starts by presenting some methodological bases of ecodesign, life cycle assessments, impact studies, and methods for planning and transport. Several specific subjects are then covered, i.e. public transport, parking, road traffic, the environmental profile of building materials, building retrofits, energy management, and biodiversity. The last part of the book sets out how the knowledge and tools developed under the Chair were applied to a case study: Cité Descartes in Marne la Vallée (Ile de France). This work is aimed at urban planners, local authorities, contracting clients, architects, engineering firms, contractors, building managers, research lecturers, and anyone interested in the environmental quality of the places we live in.

Management Perspective for Transport Telematics Jerzy Mikulski 2018-09-05 This book constitutes the thoroughly refereed proceedings of the 18th International Conference on Transport Systems Telematics, TST 2018, held in Krakow, Poland in March 2018. The 36 full papers presented in this volume were carefully reviewed and selected from 128 submissions. They present and organize the knowledge from within the field of telematics in road transport, in rail transport, in marine transport, in air transport, in logistics.

Models and Algorithms for Public Transportation Scheduling Ming Wei 2022-11-30 This book presents an arterial green-wave synchronous coordination model for bus and non-bus lanes based on platoon dispersion theory. As the traffic light at an upstream intersection change from red to green, the dispersive characteristics of these vehicles moving from upstream to the downstream were analyzed by assuming velocities of two platoon following a normal distribution pattern. The model aims at analyzing relationship between traffic flow, distance between adjacent intersections, and signaling time in order to achieve arterial green-wave synchronous coordination in both the bus and non-bus lanes. To facilitate coordination in a traffic signal control system, the number of vehicles forced to stop at the head of the platoon as well as the number of vehicles trapped at the tail of the platoon were determined and presented in a tabular form for use in the proposed traffic light coordination model. Finally, a numeric computation for the coordination of successive signals is presented to illustrate the validity of the proposed model.

Proceedings of the 2012 International Conference on Information Technology and Software Engineering Wei Lu 2012-11-05 Proceedings of the 2012 International Conference on Information Technology and Software Engineering presents selected articles from this major event, which was held in Beijing, December 8-10, 2012. This book presents the latest research trends, methods and experimental results in the fields of information technology and software engineering, covering various state-of-the-art research theories and approaches. The subjects range from intelligent computing to information processing, software engineering, Web, unified modeling language (UML), multimedia, communication technologies, system identification, graphics and visualizing, etc. The proceedings provide a major interdisciplinary forum for researchers and engineers to present the most innovative studies and advances, which can serve as an excellent reference work for researchers and graduate students working on information technology and software engineering. Prof. Wei Lu, Dr. Guoqiang Cai, Prof. Weibin Liu and Dr. Weiwei Xing all work at Beijing Jiaotong University.

Models and Technologies for Smart, Sustainable and Safe Transportation Systems Stefano de Luca 2021-07-28 Innovative and smart mobility systems are expected to make transportation systems more sustainable, inclusive, and safe. Because of changing mobility paradigms, transport planning and design require different methodological approaches. Over twelve chapters, this book examines and analyzes Mobility as a Service (MaaS), travel behavior, traffic control, intelligent transportation system design, electric, connected, and automated vehicles, and much more. Stated Preference Modelling Techniques Juan de Dios Ortúzar S. 2000

Information Technology and Intelligent Transportation Systems V.E. Balas 2017-08-18 Intelligent transport systems are on the increase. They employ a variety of technologies, from basic management systems to more advanced application systems, with information technology – including wireless communication, computational technologies, floating car data/cellular data such as sensing technologies and video vehicle detection – playing a major role. This book presents the proceedings of the 2nd International Conference on Information Technology and Intelligent Transportation Systems (ITITS 2017), held in Xi'an, People's Republic of China, in June 2017. The conference provides a platform for professionals and researchers from industry and academia to present and discuss recent advances in the field of information technology and intelligent transportation systems; organizations and researchers involved in these fields, including distinguished academics from around the

world, explore theoretical and applied topics such as emergency vehicle notification systems, automatic road enforcement, collision avoidance systems and cooperative systems. ITITS 2017 received more than 200 papers from 4 countries, and the 65 accepted papers appear in this book, which will be of interest to all those involved with the development of intelligent transport systems.

Green Intelligent Transportation Systems Wuhong Wang 2017-07-10 These proceedings collect selected papers from the 7th International Conference on Green Intelligent Transportation System and Safety held in Nanjing on July 1-4, 2016. The selected works, which include state-of-the-art studies, are intended to promote the development of green mobility and intelligent transportation technology to achieve interconnectivity, resource sharing, flexibility and higher efficiency. They offer valuable insights for researchers and engineers in the fields of Transportation Technology and Traffic Engineering, Automotive and Mechanical Engineering, Industrial and System Engineering, and Electrical Engineering.

Information Technology and Computer Application Engineering Hsiang-Chuan Liu 2013-10-11 This proceedings volume brings together some 189 peer-reviewed papers presented at the International Conference on Information Technology and Computer Application Engineering, held 27-28 August 2013, in Hong Kong, China. Specific topics under consideration include Control, Robotics, and Automation, Information Technology, Intelligent Computing and

Handbook of Public Transport Research Graham Currie 2021-04-30 Providing a comprehensive overview and analysis of the latest research in the growing field of public transport studies, this Handbook looks at the impact of urbanisation and the growth of mega-cities on public transport. Chapters examine the significant challenges facing the field that require new and original solutions, including congestion and environmental relief, and the social equity objectives that justify public transport in cities.

Digital Social Networks and Travel Behaviour in Urban Environments Pnina O. Plaut 2019-10-17 This book brings together conceptual and empirical insights to explore the interconnections between social networks based on Information and Communication Technologies (ICT) and travel behaviour in urban environments. Over the past decade, rapid development of ICT has led to extensive social impacts and influence on travel and mobility patterns within urban spaces. A new field of research of digital social networks and travel behaviour is now emerging. This book presents state-of-the-art knowledge, cutting-edge research and integrated analysis methods from the fields of social networks, travel behaviour and urban analysis. It explores the challenges related to the question of how we can synchronize among social networks activities, transport means, intelligent communication/information technologies and the urban form. This innovative book encourages multidisciplinary insights and fusion among three disciplines of social networks, travel behaviour and urban analysis. It offers new horizons for research and will be of interest to students and scholars studying mobilities, transport studies, urban geography, urban planning, the built environment and urban policy.

Modelling Intelligent Multi-Modal Transit Systems Agostino Nuzzolo 2017-02-17 The growing mobility needs of travellers have led to the development of increasingly complex and integrated multi-modal transit networks. Hence, transport agencies and transit operators are now more urgently required to assist in the challenging task of effectively and efficiently planning, managing, and governing transit networks. A pre-condition for the development of an effective intelligent multi-modal transit system is the integration of information and communication technology (ICT) tools that will support the needs of transit operators and travellers. To achieve this, reliable real-time simulation and short-term forecasting of passenger demand and service network conditions are required to provide both real-time traveller information and successfully synchronise transit service planning and operations control. *Modelling Intelligent Multi-Modal Transit Systems* introduces the current trends in this newly emerging area. Recent developments in information technology and telematics have enabled a large amount of data to become available, thus further attracting transport researchers to set up new models outside the context of the traditional data-driven approach. The alternative demand-supply interaction or network assignment modelling approach has improved greatly in recent years and has a crucial role to play in this new context.

2021 6th International Conference on Intelligent Transportation Engineering (ICITE 2021) Zhenyuan Zhang 2022-05-31 This book features high-quality, peer-reviewed papers from the 2021 6th International Conference on Intelligent Transportation Engineering (ICITE 2021), held in Beijing, China, on October 29–31, 2021. Presenting the latest developments and technical solutions in Intelligent Transportation engineering, it covers a variety of topics, such as intelligent transportation, traffic control, road networking, intelligent automobile and vehicle operation & management. The book will be a valuable reference for graduate and postgraduate audiences, researchers and engineers, working in Intelligent Transportation Engineering.

Modelling Public Transport Passenger Flows in the Era of Intelligent Transport Systems Guido Gentile 2018-03-30 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.

ICTE in Transportation and Logistics 2019 Egils Ginters 2020-01-30 This proceedings volume explores the latest advances in transport and logistics, while also discussing the applications of modern information technologies, telecommunications, electronics, and prospective research methods and analyzing their impacts on society and the environment, which in turn determine the future development of these technologies. The book is intended for a broad readership, including transport and logistics business planners and technical experts, leveraging industry knowledge and facilitating technology adoption in promising business regions and transit corridors such as Ukraine, Kazakhstan, and others. The authors, who include policy planners and crafters as well as education and training professionals, address various types of intermodal transport such as rail, road, maritime, air, etc.

Modelling of the Interaction of the Different Vehicles and Various Transport Modes Aleksander Śladkowski 2019-01-28 This book discusses various issues of modeling freight and passenger traffic, and explores the common approaches and regional differences. The latter may be a consequence of national legislation or the various approaches that are adopted by scientists around the globe. It focuses on the organization of transcontinental transport and aspects of planning and harmonizing the movement of various transport means, particularly intermodal and multimodal transport.

New approaches to the prediction of transportation needs are also considered. Written by international experts, the book is divided into 2 parts: the first part analyzes passenger transport, while the second addresses freight transport. It is intended wide audience, including university professors, graduate and Ph.D. students; transport professionals, and logistics specialist.

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