

Milan Janić

Advanced Transport Systems

Analysis, Modeling, and Evaluation
of Performances



Springer

Advanced Transport Systems Analysis Modeling And Evaluation Of Performances

Milan Janic



Advanced Transport Systems Analysis Modeling And Evaluation Of Performances:

Advanced Transport Systems Milan Janić, 2014-01-11 This book provides a systematic analysis modeling and evaluation of the performance of advanced transport systems. It offers an innovative approach by presenting a multidimensional examination of the performance of advanced transport systems and transport modes useful for both theoretical and practical purposes. Advanced transport systems for the twenty-first century are characterized by the superiority of one or several of their infrastructural, technical, technological, operational, economic, environmental, social, and policy performances as compared to their conventional counterparts. The advanced transport systems considered include Bus Rapid Transit (BRT) and Personal Rapid Transit (PRT) systems in urban areas; electric and fuel cell passenger cars; high-speed tilting trains; High-Speed Rail (HSR); TransRapid; Maglev; TRM; Evacuated Tube Transport system (ETT); advanced commercial subsonic and Supersonic Transport Aircraft (STA) conventionally and Liquid Hydrogen (LH2) fuelled commercial air transportation; advanced Air Traffic Control (ATC) technologies and procedures for increasing the airport runway capacity; Underground Freight Transport (UFT) systems in urban areas; Long Intermodal Freight Trains (LIFTs); road mega-trucks; large advanced container ships and freight cargo aircraft; and advanced freight goods collection distribution networks. This book is intended for postgraduates, researchers, professionals, and policy makers working in the transport industry.

System Analysis and Modelling in Air Transport Milan Janić, 2021-01-04 This book presents a comprehensive analysis and modelling of demand, capacity, quality of services, economics, and sustainability of the air transport system and its main components: airports, airlines, and ATC/ATM. Airports consist of the airside and landside area characterized by their capacities for handling demand such as aircraft, air passengers, and air freight cargo shipments. Regarding spatial configuration, airlines generally operate hub and spoke, conventional or legacy airlines, and point-to-point (LCCs) Low Cost Carriers air route networks. Their fleets, consisting of different aircraft types, provide transport capacity for serving demand including air passengers and freight cargo shipments. The ATC/ATM includes the controlled airspace, traffic management, and control facilities and equipment on the ground, space, and on board aircraft, and the ATC Controllers. They all provide capacity to handle demand consisting of the flights between origin and destination airports carried out by airline aircraft. The outcome from the interrelationships between demand and capacity at these components materializes as the quality of services. At airports and airlines, this is generally expressed by congestion and delays of aircraft, air passengers, and freight cargo shipments. At ATC/ATM, this is expressed by delays, horizontal and vertical, in efficiency and safety of flights. Economics of each component relate to its revenues, costs, and profits from handling demand, i.e., providing services of given quality. The sustainability of the air transport system has become an increasingly important issue for many internal and external actors/stakeholders involved to deal with. This has implied increasing the system's overall social/economic effects/benefits while reducing or maintaining constant impacts/costs on the environment and society at both global and regional/local scale under conditions of continuous, medium to long

term growth *XV International Scientific Conference "INTERAGROMASH 2022"* Alexey Beskopylny, Mark Shamtsyan, Viktor Artiukh, 2023-02-04 The book contains proceedings of the XV International Scientific Conference INTERAGROMASH 2022 Rostov on Don Russia The agro industrial complex is the most extensive and vital industry It is rapidly developing by introducing the latest technologies and automating various processes necessary for the functioning of this area The book is dedicated to engineering technologies of precision farming and agricultural robotics It includes studies on natural resources variability sustainable soil management Agro Big Data Internet of Things software and mobile apps for precision agriculture smart weather for precision agriculture simulations models and decision support systems expert systems DGPS soil physical and chemical characteristic sensors machinery etc Different types of agricultural robots are presented in the book autonomous fruit picking robots farming bots that can seed and water plants test the soil and remove weeds completely autonomous robot for ecological and economical ultra high precision spraying and weeding harvesting robots with the special vision systems that can see fruits and understand whether they re ripe and ready to pick and others Also the book covers advances in agricultural biotechnology in such areas of research as crop production improvement practices genetic modification as well as microbial biotechnology in agriculture etc The book is aimed for scientists researchers and graduate students It is also useful for representatives of regional authorities as it gives an idea of existing high tech solutions for agriculture The book is written and edited by international researchers academics and experts in the corresponding research areas Railway Transportation Systems Christos N. Pyrgidis, 2021-10-31 Railway Transportation Systems covers the entire range of railway passenger systems from conventional and high speed intercity systems to suburban regional operating on steep gradients and urban ones It also examines in depth freight railway systems transporting conventional loads heavy loads and dangerous goods For each system the text provides a definition an overview of its evolution and examples of good practice the main design construction and operational characteristics and the preconditions for its selection Additionally it offers a general overview of safety interfaces with the environment forces acting on the track and techniques that govern the stability and guidance of railway vehicles This new edition brings two new chapters One concerns pre feasibility studies of urban rail projects and the other analyses the operation of railway systems under specific weather conditions and natural phenomena New material examines dilemmas trends and innovations in rail freight transportation a new definition for high speed rail a number of case studies and an update of cutting edge technologies It is ideal for graduate students engineers consultants manufacturers and transport company executives who need a reference and guide *Resilience, Robustness, and Vulnerability of Transport Systems* Milan Janić, 2022-11-21 This book is focused on the analysis and modelling of resilience robustness and vulnerability of transport systems and their complement reliability It provides an elaboration on their generic concepts analysing disruptive events and nature of their impacts It also offers an analysis and modelling of the system performances and their indicators relevant for the main actors

involved Applications of the models of performances and their resilience robustness and vulnerability to the selected cases of road rail air and maritime transport mode affected by different internal and external disruptive events are also presented By offering readers a systematic and comprehensive way of dealing with the topic of resilience robustness and vulnerability of transport systems and their complement reliability this book will be of interest to researchers and professionals alike within the transport industry

Maritime Supply Chains Thierry Vanelander,Christa Sys,2020-03-25 *Maritime Supply Chains* breaks the maritime chain into components consistently relating them to the overall integrated supply chain The book not only analyzes and provides solutions to frequently encountered problems and key operational issues it also applies cutting edge scientific techniques on the maritime supply chain Sections consider shipping ports and terminals hinterland and the issues that intersect different parts of the chain Readers will find discussions of the various actors at play and how they relate to the overall function of the supply chain Finally the book offers solutions to the most pressing problems thus providing a unique well balanced account

The International Air Cargo Industry James Nolan,James Peoples,2022-09-26 *The International Air Cargo Industry A Modal Analysis* provides an objective snapshot of this fascinating industry from the perspective of those who conduct academic research into its expansion and consolidation covering three broad economic areas costs demand and development

Modelling and Managing Airport Performance Konstantinos Zografos,Giovanni Andreatta,Amedeo Odoni,2013-06-17 *Modelling and Managing Airport Performance* provides an integrated view of state of the art research on measuring and improving the performance of airport systems with consideration of both airside and landside operations The considered facets of performance include capacity delays economic costs noise emissions and safety Several of the contributions also examine policies for managing congestion and allocating sparse capacity as well as for mitigating the externalities of noise emissions and safety risk Key features Provides a global perspective with contributing authors from Europe North and South America with backgrounds in academia research institutions government and industry Contributes to the definition interpretation and shared understanding of airport performance measures and related concepts Considers a broad range of measures that quantify operational and environmental performance as well as safety and risk Discusses concepts and strategies for dealing with the management of airport performance Presents state of the art modelling capabilities and identifies future modelling needs Themed around 3 sections *Modelling Airport Performance Assessing Airport Impacts and Managing Airport Performance and Congestion* *Modelling and Managing Airport Performance* is a valuable reference for researchers and practitioners in the global air transportation community

Landside Accessibility of Airports Milan Janić,2018-08-02 This book covers the analysis modelling planning and design of airport landside access modes and their systems It elaborates on the issues and related problems of airport landside accessibility in an innovative comprehensive and systematic way In addition to the general concept of accessibility the book addresses the analysis and modelling of infrastructure related technological operational

economic social and environmental performance of road and rail based transport systems as well as the core principles of their planning and design The book provides guidelines on the modelling planning and design of airport landside access modes and their systems which will contribute to the overall sustainable development of airports Its main features are presents a multidimensional examination of performance for specific airport landside access modes and their systems pursues a qualitative and quantitative approach to developing performance indicators for estimating the sustainability of airport landside access modes and their systems includes illustrative cases of airport landside accessibility and numerical examples as exercises for assessing performance using the systems indicators As such the book offers a valuable source of information for all practitioners involved in analysing planning and designing more environmentally friendly airport access modes and systems and who want to learn how to overcome the issues and problems surrounding landside accessibility It will also benefit students studying the analysis and modelling of transportation systems and researchers seeking to promote improved sustainability at airports

Transportation Systems Analysis Ennio Cascetta, 2009-08-22 Science is made of facts just as a house is made of bricks but a collection of facts is no more science than a pile of bricks is a house Henri Poincaré The aim of the disciplines of praxis is not theoretical knowledge It is to change the forms of action Aristotle Transportation systems consist not only of the physical and organizational elements that interact with each other to produce transportation opportunities but also of the demand that takes advantage of such opportunities to travel from one place to another This travel demand in turn is the result of interactions among the various economic and social activities located in a given area Mathematical models of transportation systems represent for a real or hypothetical transportation system the demand owns the functioning of the physical and organizational elements the interactions between them and their effects on the external world Mathematical models and the methods involved in their application to real large scale systems are thus fundamental tools for evaluating and or designing actions affecting the physical elements e.g a new railway and or organizational components e.g a new timetable of transportation systems This book discusses the mathematical models that are used to analyze transportation systems presenting them as the result of a limited number of general assumptions theory It also deals with the methods needed to make these models operational and with their application to transportation system project design and evaluation This field of knowledge is known as transportation systems engineering

Marine Research, 1969 Transport Systems Milan Janic, 2017-03-27 The transport sector consists of different modes of transport each serving a growing demand for transporting people and goods This growing demand on the one hand needs expanding the systems capacity and on the other hand increasing the corresponding economic efficiency effectiveness and environmental and social friendliness This implies development of a greener i.e a more sustainable transport sector The book describes the current and prospective state of the art analytical modelling conceptual planning and multi criteria evaluation of the selected cases of transport systems operated by different transport modes such as road rail sea air and intermodal As such the book is unique in addressing these three

important aspects of dealing with transport systems before implementation of their particular components means by the selected cases It will be particularly useful for readers from the academia and the professionals from the transport sector

Indices Oak Ridge National Laboratory,1972 *Urban Transport XVII* Antonio Pratelli,C. A. Brebbia,2011 the 17th International Conference held in Pisa Italy Pref Scientific and Technical Aerospace Reports ,1994 *Data-Driven Ocean Environmental Perception with its Applications* Jianchuan Yin,Yu Jiang,Phoebe Koundouri,Hongde Qin,2025-05-27 Data driven ocean environmental perception refers to the various data driven methodologies used by researchers to study understand and explore the ocean for sustainable marine ecosystem the blue ocean economy and other ocean related activities Ocean environment perception techniques also pave the way for deep insight and full exploration of ocean resources such as coastal and marine ecosystem protection ocean vehicle operation and management and ocean energy utilization However it is hard for traditional data processing techniques to get comprehensive understanding of the ocean environmental information attributed to the complex characteristics of environmental information The traditional data processing techniques are facing challenges such as Unable to fully capture the non linearity and intrinsic uncertain of complex ocean systems Isolated systems are involved and make it difficult to integrate data from various sources Overwhelming for handling enormous amounts of data leading to performance issues and long processing times Costly in scalability both in terms of hardware and operational expenses Advances in data driven methodologies Highly dynamic nonlinearity and uncertainty mapping capability in complex system evolution Leveraging vast amounts of data collected from various sources effectively Flexibility in handling various types of data including structured semi structured and unstructured data Handling big data efficiently by making use of distributed computing and storage Data driven technologies are a set of techniques dealing with complex systems which can mine valuable potential relationships from measurement data through intelligent computational approaches such as machine learning data mining data fusion reinforcement learning etc Data driven applications on the aspect of Remote Sensing Autonomous Underwater Vehicles AUVs Remotely Operated Vehicles ROVs Acoustic Sensing Buoy Networks Internet of Things IoT for the oceans and Ocean Digital Twin are becoming increasingly crucial for ocean environmental perception leveraging vast amounts of data collected from various sources to monitor analyze and predict oceanic atmospheric and marine ecological conditions This helps us to identify and monitor environmental changes and better understand the complex relationships between different components of the ocean ecosystem It also provides essential ways to explore how people understand value or engage with marine environment and the Blue Economy such as renewable wind wave energy marine ranching industry for sustainable food energy etc The focus of this research topic is dedicated to recent advances in data driven technologies implemented for the field of ocean environment perception and their applications for the blue ocean economy sustainable marine ecosystem and other ocean related activities This topic also aims to extend the future implications of data driven techniques in the field of ocean

research It calls for original and novel research related to ocean environmental perception based on data driven techniques Potential topics of interest include but are not limited to the following Monitor Analysis and Prediction of Oceanic Conditions ML and AI algorithms Ocean Monitoring system Buoy Networks Satellite Remote Sensing and Acoustic Sensing Applications Big Data Internet of Things IoT Digital Twins for ocean and Smart Ocean Ocean Environmental Data Processing and Information Fusion Methods Data Driven Control Operation and Management of Ocean Vehicles AUV ROV USV et al for Ocean Environment perception and marine ecosystem monitoring Coastal and Marine Ecosystem Evaluation Protection and Management Based on Data Driven Techniques Data Driven Assessment and Effect Analysis of Climate Change and Human Activities on Oceans Global Marine Governance and Ocean Management in the Principle of Blue Economy Sustainable Development Goals SDGs and UN Ocean Decade Utilization Management and Governance of Renewable Ocean Energies Tidal Currents Waves Wind Thermal and Salinity Gradients etc based on Data Driven Ocean Environment Perception Management of Marine Infrastructure and Maritime Shipping Based on Ocean Environment Perception *Report Woods Hole Conference on Maritime Research and Development,1970* *Modeling of Transport Demand* V.A Profillidis,G.N. Botzoris,2018-10-23 Modeling of Transport Demand explains the mechanisms of transport demand from analysis to calculation and forecasting Packed with strategies for forecasting future demand for all transport modes the book helps readers assess the validity and accuracy of demand forecasts Forecasting and evaluating transport demand is an essential task of transport professionals and researchers that affects the design extension operation and maintenance of all transport infrastructures Accurate demand forecasts are necessary for companies and government entities when planning future fleet size human resource needs revenues expenses and budgets The operational and planning skills provided in Modeling of Transport Demand help readers solve the problems they face on a daily basis Modeling of Transport Demand is written for researchers professionals undergraduate and graduate students at every stage in their careers from novice to expert The book assists those tasked with constructing qualitative models based on executive judgment Delphi scenario writing survey methods or quantitative ones based on statistical time series econometric gravity artificial neural network and fuzzy methods in choosing the most suitable solution for all types of transport applications Presents the most recent and relevant findings and research both at theoretical and practical levels of transport demand Provides a theoretical analysis and formulations that are clearly presented for ease of understanding Covers analysis for all modes of transportation Includes case studies that present the most appropriate formulas and methods for finding solutions and evaluating results **Transportation Engineering** Dusan Teodorovic,Milan Janić,2022-01-28 Transportation Engineering Theory Practice and Modeling Second Edition presents comprehensive information related to traffic engineering and control transportation planning and evaluation of transportation alternatives The book systematically deals with almost the entire transportation engineering area offering various techniques related to transportation modeling transportation planning and traffic control It also shows readers how

to use models and methods when predicting travel and freight transportation demand how to analyze existing transportation networks how to plan for new networks and how to develop traffic control tactics and strategies New topics addressed include alternative Intersections alternative interchanges and individual private transportation Readers will also learn how to utilize a range of engineering concepts and methods to make future transportation systems safer more cost effective and greener Providing a broad view of transportation engineering including transport infrastructure control methods and analysis techniques this new edition is for postgraduates in transportation and professionals needing to keep up to date with the latest theories and models Covers all forms of transportation engineering including air rail road and public transit modes Examines different transportation modes and how to make them sustainable Features a new chapter covering the reliability resilience robustness and vulnerability of transportation systems

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