

CHAPTER 2: MULTIMODAL TRANSPORT: ITS EVOLUTION & APPLICATION

2.1 BACKGROUND

Multimodal transport is essentially an international through-transport combination with various modes of transport such as ship, rail, truck, aeroplane, etc., primarily through the use of containers. Containers will ensure the transport of unitised cargo from its origin to its final destination, with efficiency and least possible risk (UNCTAD, 1993).

According to Woxenius (1998), the concept of using freight containers dates from Roman times but container transport by rail was introduced by the Liverpool & Manchester Railway that used Roll-on/Roll-off containers for the hauling of coal back in 1830. The Birmingham & Derby Railway introduced an early form of multimodal transport with the transfer of containers between rail wagons and horse carriage in 1839. New York Central Railway developed and inaugurated the first dedicated container service from Cleveland and Chicago on March 19, 1921. Containerisation grew further as a means of 'door-to-door' transport, spurred on by the development of the Piggy Back System where trailers themselves were carried aboard specialised 'Flat cars' (ESCAP, 1983).

Containers for sea transport appeared during the 1960s and should be attributed to the innovativeness and the sea/land strategy of Mr. M McLean, the founder of Sea-Land Inc. (UNCTAD, 1993). He was originally an executive of a trucking company who took over a shipping company. As he was familiar with road/rail combination operations for land transport, he decided to apply the concept with sea transport to enable sea/land through transport with the help of standardised dimensions for containers. It followed that containers had to be fitted with special devices for the ease of switch between different modes of transport and that ships had to be equipped with rail structures known as cell-guides for vertical sliding and stowing into the ship's hold.

Multimodal Transport Its Evolution Application

Indira Carr, Peter Stone



Multimodal Transport Its Evolution Application:

MULTIMODAL TRANSPORTATION OF GOODS ACT, 1993: A COMPREHENSIVE COMMENTARY Abhijit Anil

More,2025-09-01 Transportation is responsible for the development of civilizations from very old times for the movement of peoples and goods Such movements are inevitable to improve the way of living of people 1 Transportation means carrying people and goods from one place to another It has contributed much to the development of country whether the growth is in an economic social political or cultural field and by uplifting the condition of people 2 Multimodal Transport Security Joseph S. Szyliowicz, Luca Zamparini, Genserik L.L. Reniers, Dawna L. Rhoades, 2016-01-29 Rapid globalisation has led to the realization that the traditional modal approach to transporting people and goods is insufficient Multimodal Transport Security illustrates the inevitable shift towards multimodal transportation systems further enabled by modern technological innovations and succinctly assesses the demanding and new security challenges that have accompanied this The emergence of these complex transportation infrastructures has created exceedingly attractive terrorist targets owing to the potential for wide scale disruption of global supply chains Providing a conjoint analysis of key issues in both passenger and freight multimodal transportation security expert contributors provide pivotal case studies highlighting the successes and failures of various policies and practices across several geographical regions Adeptly drawing these strands together the editors identify similarities and heterogeneities and in doing so produce a practical illustration of the potential for further enhancement of multimodal security An ever increasing and worldwide concern with the improvement of security in transport places this unique and comprehensive text at the forefront of transportation literature It will be of great value to students and scholars of public policy as well as policy makers in the fields of transportation and counter terrorism

Applications of Evolutionary Computation Kevin Sim, Paul Kaufmann, 2018-03-07 This book constitutes the refereed conference proceedings of the 21st International Conference on the Applications of Evolutionary Computation EvoApplications 2018 held in Parma Italy in April 2018 collocated with the Evo 2018 events EuroGP EvoCOP and EvoMUSART The 59 revised full papers presented were carefully reviewed and selected from 84 submissions EvoApplications 2018 combined research from 14 different domains business analytics and finance EvoBAFIN computational biology EvoBIO communication networks and other parallel and distributed systems EvoCOMNET complex systems EvoCOMPLEX energy related optimization EvoENERGY games and multi agent systems EvoGAMES image analysis signal processing and pattern recognition EvoIASP realworld industrial and commercial environments EvoINDUSTRY knowledge incorporation in evolutionary computation EvoKNOW continuous parameter optimization EvoNUM parallel architectures and distributed infrastructures EvoPAR evolutionary robotics EvoROBOT nature inspired algorithms in software engineering and testing EvoSET and stochastic and dynamic environments EvoSTOC Modelling Intelligent Multi-Modal Transit Systems Agostino Nuzzolo, William H. K. Lam, 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

Complex Networks & Their Applications V Hocine Cherifi, Sabrina Gaito, Walter Quattrociocchi, Alessandra Sala, 2016-11-25 This book highlights cutting edge research in the field of network science offering scientists researchers and graduate students a unique opportunity to catch up on the latest advances in theory and a multitude of applications It presents the peer reviewed proceedings of the fifth International Workshop on Complex Networks Network measures Community structure Network dynamics Diffusion epidemics and spreading processes Resilience and control Network visualization Social and political networks Networks in finance and economics Biological and ecological networks and Network analysis

Innovative Applications of Big Data in the Railway Industry Kohli, Shruti, Kumar, A.V. Senthil, Easton, John M., Roberts, Clive, 2017-11-30 Use of big data has proven to be beneficial within many different industries especially in the field of engineering however infiltration of this type of technology into more traditional heavy industries such as the railways has been limited Innovative Applications of Big Data in the Railway Industry is a pivotal reference source for the latest research findings on the utilization of data sets in the railway industry Featuring extensive coverage on relevant areas such as driver support systems railway safety management and obstacle detection this publication is an ideal resource for transportation planners engineers policymakers and graduate level engineering students seeking current research on a specific application of big data and its effects on transportation

Advances in Smart Vehicular Technology, Transportation, Communication and Applications Tsu-Yang Wu, Shaoquan Ni, Shu-Chuan Chu, Chi-Hua Chen, Margarita Favorskaya, 2021-11-30 This book includes selected papers from the fourth International Conference on Smart Vehicular Technology Transportation Communication and Applications VTCA 2021 held in Chengdu City Sichuan Province China during May 22 24 2021 The conference is technically co sponsored by Southwest Jiaotong University Shandong University of Science and Technology Fujian University of Technology and Minjiang University The book includes research works from engineers researchers and practitioners interested in the advances and applications in the field of

vehicle technology and communication The book covers four tracks namely 1 vehicular networking security 2 vehicular electronics 3 intelligent transportation systems and 4 smart vehicular communication networks and telematics

Computational Science and Its Applications - ICCSA 2023 Workshops Osvaldo Gervasi,Beniamino Murgante,Ana Maria A. C. Rocha,Chiara Garau,Francesco Scorza,Yeliz Karaca,Carmelo M. Torre,2023-06-28 This nine volume set LNCS 14104 14112 constitutes the refereed workshop proceedings of the 23rd International Conference on Computational Science and Its Applications ICCSA 2023 held at Athens Greece during July 3 6 2023 The 350 full papers and 29 short papers and 2 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 876 submissions These nine volumes includes the proceedings of the following workshops Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2023 Advanced Processes of Mathematics and Computing Models in Complex Computational Systems ACMC 2023 Artificial Intelligence supported Medical data examination AIM 2023 Advanced and Innovative web Apps AIWA 2023 Assessing Urban Sustainability ASUS 2023 Advanced Data Science Techniques with applications in Industry and Environmental Sustainability ATELIERS 2023 Advances in Web Based Learning AWBL 2023 Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2023 Bio and Neuro inspired Computing and Applications BIONCA 2023 Choices and Actions for Human Scale Cities Decision Support Systems CAHSC DSS 2023 and Computational and Applied Mathematics CAM 2023 Computational Science and Its Applications - ICCSA 2021 Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Chiara Garau,Ivan Blečić,David Taniar,Bernady O. Apduhan,Ana Maria A. C. Rocha,Eufemia Tarantino,Carmelo Maria Torre,2021-09-10 The ten volume set LNCS 12949 12958 constitutes the proceedings of the 21st International Conference on Computational Science and Its Applications ICCSA 2021 which was held in Cagliari Italy during September 13 16 2021 The event was organized in a hybrid mode due to the Covid 19 pandemic The 466 full and 18 short papers presented in these proceedings were carefully reviewed and selected from 1588 submissions The books cover such topics as multicore architectures blockchain mobile and wireless security sensor networks open source software collaborative and social computing systems and tools cryptography applied mathematics human computer interaction software design engineering and others Part IV of the set includes the papers on Urban and Regional Planning and the proceedings of the following workshops International Workshop on Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2021 International Workshop on Computational and Applied Mathematics CAM 2021 International Workshop on Computational and Applied Statistics CAS 2021 International Workshop on Computerized Evaluation of Economic Activities Urban Spaces CEEA 2021 The chapters Automated Housing Price Valuation and Spatial Data Spatial Automated Valuation Model sAVM From the Notion of Space to the Design of an Evaluation Tool and A MCDA GIS Based Approach for Evaluating Accessibility to Health Facilities are published open access under a CC BY license Creative Commons Attribution 4 0 International License *International Trade Law* Indira Carr,Peter Stone,2017-11-22

International Trade Law offers a clear overview of the complexities of an international sale transaction through informed analysis of case law legislation and international conventions and rules Fully updated with changes to the law and new directions in legal debate this new edition considers Standard trade terms including INCOTERMS 2010 the Convention on International Sales of Goods 1980 and the UNIDROIT Principles for International Commercial Contracts E Commerce issues including electronic bills of lading Insurance and payment mechanisms such as letters of credit and the UCP 600

International transportation of cargo including the Rotterdam Rules Dispute resolution including jurisdiction applicable law arbitration and mediation with particular reference to the relevant EU regulations and the developing case law thereon Corruption and anti corruption conventions including the UK Bribery Act 2010 and developments relating to deferred prosecution agreements In addition to clarifying a range of topics through tables and diagrams the book directs readers to relevant further reading and online resources throughout offering students an accessible resource to this often challenging area of the law

An Assessment of Community Planning for Mass Transit: Washington, D.C. case study United States. Congress. Office of Technology Assessment,1976

Applications of Combinatorial Optimization, Volume 3 Vangelis Th. Paschos,2013-02-07 Combinatorial optimization is a multidisciplinary scientific area lying in the interface of three major scientific domains mathematics theoretical computer science and management The three volumes of the Combinatorial Optimization series aims to cover a wide range of topics in this area These topics also deal with fundamental notions and approaches as with several classical applications of combinatorial optimization Applications of Combinatorial Optimization is presenting a certain number among the most common and well known applications of Combinatorial Optimization

State-of-the-Art Digital Twin Applications for Shipping Sector Decarbonization Karakostas, Bill,Katsoulakos, Takis,2024-04-09 The shipping industry responsible for approximately 3% of global greenhouse gas emissions urgently needs decarbonization to combat climate change Traditional approaches to reducing emissions have yet to achieve significant sustainable results Maritime businesses and naval engineers need innovative solutions to meet ambitious emissions reduction targets and regulatory requirements State of the Art Digital Twin Applications for Shipping Sector Decarbonization offers a groundbreaking solution to the challenges of shipping decarbonization By focusing on integrating digital twin technologies this book presents a new paradigm for enhancing operational efficiency reducing environmental impact and meeting regulatory compliance Through digital twins maritime businesses can gain valuable insights into their operations optimize energy consumption and develop sustainable practices By offering insights on various topics from conceptual frameworks to practical implementations including digital twin model representation management and applications in ship operations and design from EU funded research and real world case studies this book is invaluable for researchers naval engineers and maritime professionals seeking to drive sustainability and innovation in the shipping industry

Enterprise IoT Dirk Slama, Frank Puhlmann, Jim Morrish, Rishi M Bhatnagar, 2015-10-29 Current hype aside the

Internet of Things will ultimately become as fundamental as the Internet itself with lots of opportunities and trials along the way To help you navigate these choppy waters this practical guide introduces a dedicated methodology for businesses preparing to transition towards IoT based business models With a set of best practices based on case study analysis expert interviews and the authors own experience the Ignite IoT Methodology outlined in this book delivers actionable guidelines to assist you with IoT strategy management and project execution You ll also find a detailed case study of a project fully developed with this methodology This book consists of three parts Illustrative case studies of selected IoT domains including smart energy connected vehicles manufacturing and supply chain management and smart cities The Ignite IoT Methodology for defining IoT strategy preparing your organization for IoT adoption and planning and executing IoT projects A detailed case study of the IIC Track Trace testbed one of the first projects to be fully developed according to the Ignite IoT Methodology

Driving the Future How vehicle-to-Everything(V2X) is Revolutionizing Smart Transportation in Dubai Dr. Fadi Sakka,2025-04-23 This book explores how Vehicle to Everything V2X technology is transforming Dubai s smart transportation ecosystem It examines real time communication between vehicles infrastructure and networks to enhance safety efficiency and sustainability The book highlights Dubai s innovative initiatives intelligent mobility frameworks and future ready strategies driving the city toward autonomous and connected transportation

Transport Management Prof. Nitin Vyas, Transport Management is a comprehensive academic resource that explores the planning operation and control of transportation systems across different modes road rail air and sea The book discusses the strategic and economic role of transport in business tourism and supply chain logistics while also addressing legal frameworks sustainability and modern technological trends With a blend of theoretical concepts and practical applications it is an essential guide for students and professionals in logistics operations and transport services Covers All Modes of Transport Discusses road rail air and water transport systems and their roles in trade tourism and logistics Operations Planning Explains how transport systems are planned scheduled and managed for efficiency and reliability Regulations Policies Includes national and international transport laws safety norms and government policies affecting transport Role in Business Tourism Highlights the importance of transport in supporting supply chains travel and economic development Sustainable Transport Addresses environmental concerns and trends in green efficient and smart transport systems Costing Financial Aspects Covers budgeting pricing cost control and financial planning in transport services Academic Relevance Designed for students of transport management logistics tourism and business administration

New Metaheuristic Schemes: Mechanisms and Applications Erik Cuevas,Daniel Zaldívar,Marco Pérez-Cisneros,2023-11-06 Recently novel metaheuristic techniques have emerged in response to the limitations of conventional approaches leading to enhanced outcomes These new methods introduce interesting mechanisms and innovative collaborative strategies that facilitate the efficient exploration and exploitation of extensive search spaces characterized by numerous dimensions The objective of this book is to present advancements that discuss

novel alternative metaheuristic developments that have demonstrated their effectiveness in tackling various complex problems This book encompasses a variety of emerging metaheuristic methods and their practical applications The content is presented from a teaching perspective making it particularly suitable for undergraduate and postgraduate students in fields such as science electrical engineering and computational mathematics The book aligns well with courses in artificial intelligence electrical engineering and evolutionary computation Furthermore the material offers valuable insights to researchers within the metaheuristic and engineering communities Similarly engineering practitioners unfamiliar with metaheuristic computation concepts will recognize the pragmatic value of the discussed techniques These methods transcend mere theoretical tools that have been adapted to effectively address the significant real world problems commonly encountered in engineering domains

Advancing Carbon Reduction and Pollution Control Policies Management:

Theoretical, Application, and Future Impacts Hui Wang, Jiachao Peng, Le Wen, 2025-10-22 The global imperative to combat climate change necessitates a strategic transition from energy consumption dual control to carbon emission dual control This shift is not only a policy evolution but also a fundamental reorientation towards sustainable development It demands a profound reassessment of energy production and consumption with a particular focus on their environmental and carbon footprints The theoretical framework for this transition is deeply rooted in ecological economics environmental justice and the pursuit of a low carbon economy The primary objective of this Research Topic is to construct a cohesive and interdisciplinary framework that integrates the theoretical and practical dimensions of the transition to carbon centric control mechanisms It is imperative to identify analyze and overcome the barriers and challenges inherent in this transition while also exploring and promoting innovative solutions that can ensure a smooth and effective transformation

Advances and Applications in SmartRail, Traffic, and Transportation Engineering Limin Jia, Yanhui Wang, Said Easa, 2025-08-19 This book is a collection of the original peer reviewed conference papers presented at the 2024 2nd International Conference on SmartRail Traffic and Transportation Engineering organized by Chongqing Jiaotong University and Southwest Jiaotong University The conference will be held on 25-27 October 2024 in Chongqing China It covers topics including SmartRail systems autonomous vehicles energy efficiency sustainable transportation big data in transportation and machine learning Speakers discussed innovative technologies and strategies to improve the efficiency reliability and safety of rail networks while exploring the opportunities and challenges of integrating autonomous vehicles into existing transportation networks It provides valuable insights into the latest developments and trends in transportation engineering and technology with a focus on electrification and sustainable transportation It serves as a valuable resource for professionals researchers and students working in the field

A Very Human Future Rohit Talwar, Steve Wells, Alexandra Whittington, Helena Calle, 2018-10-15 A Very Human Future is written from the premise that the pace of penetration and scale of disruption of new technologies requires us to adopt a new all encompassing protective logic for society moving forward Enriching Humanity in a Digitized

World means placing humanity at the center of the agenda so that we avoid dehumanizing ourselves and future generations. As society enters the fourth industrial revolution, a major question arises: can we harness intense technological bursts of possibility to bring about a better world? A Very Human Future illustrates how the evolution of society, cities, people, businesses, industries, nations, and governments are being unexpectedly entangled by exponential technological disruption. This is not a book about technology but an exploration of how we make it serve humanity's highest needs and ambitions. Each chapter looks at how new ideas enabled by emerging technologies are straining the old social fabric and proposes radical future scenarios, strategies, and actions to safeguard humanity from harm and enhance opportunity for all. This book is a manifesto for a future that is better than the past. A Very Human Future rejects an outlook where human beings live a mundane existence while technologies burst with possibility. Rather, we use this book to endorse a proactive approach to the future where technology is designed to benefit humanity purposefully and intentionally. To advocate for A Very Human Future, we ask, for example, how do we use technology to overcome gender bias or to impart a meaningful education to new generations? Can artificial intelligence tools make government more trustworthy and help us deal with the impacts of automation replacing humans? What rights should people have when residing in smart cities? The scale of the new technologies requires a protective logic for moving forward, keeping humanity at the centre so that we avoid dehumanizing ourselves and future generations. A Very Human Future is not one but many positive stories and visions of the future can be powerful beacons for social adaptation. We argue that the time to control the narrative of the future and stake a claim for humanity is now. A Very Human Future uses knowledge as power, describing surprising ways new thinking and disruptive technology can impact society. This book explains that protecting what's human is the key to retaining our dominance over future technological progress.

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