

## **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.

## 2 Multimodal Transport Its Evolution Application

**Agostino Nuzzolo, William H. K. Lam**



## **2 Multimodal Transport Its Evolution Application:**

**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

**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

*Intelligent Transport Systems* Asier Perallos, Unai Hernandez-Jayo, Enrique Onieva, Ignacio Julio García Zuazola, 2015-10-07 INTELLIGENT TRANSPORT SYSTEMS TECHNOLOGIES AND APPLICATIONS This book provides a systematic overview of Intelligent Transportation Systems ITS offering an insight into the reference architectures developed within the main research projects It delves into each of the layers of such architectures from physical to application layer describing the technological issues which are being currently faced by some of the most important ITS research groups The book concludes with some end user services and applications deployed by industrial partners The book is a well balanced combination of academic contributions

and industrial applications in the field of Intelligent Transportation Systems It includes the most representative technologies and research results achieved by some of the most relevant research groups working on ITS collated to show the chances of generating industrial solutions to be deployed in real transportation environments

**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

*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 Intelligence in Emerging Technologies for Engineering Applications Orestes Llanes Santiago, Carlos Cruz Corona, Antônio José Silva Neto, José Luis Verdegay, 2020-02-14 This book explores applications of computational intelligence in key and emerging fields of engineering especially with regard to condition monitoring and fault diagnosis inverse problems decision support systems and optimization These applications can be beneficial in a broad range of contexts including water distribution networks

manufacturing systems production and storage of electrical energy heat transfer acoustic levitation uncertainty and robustness of infinite dimensional objects fatigue failure prediction autonomous navigation nanotechnology and the analysis of technological development indexes All applications mathematical and computational tools and original results are presented using rigorous mathematical procedures Further the book gathers contributions by respected experts from 22 different research centers and eight countries Brazil Cuba France Hungary India Japan Romania and Spain The book is intended for use in graduate courses on applied computation applied mathematics and engineering where tools like computational intelligence and numerical methods are applied to the solution of real world problems in emerging areas of engineering

**Complex Networks & Their Applications V** Hocine Cherifi, Sabrina Gaito, Walter

Quattrociochi, 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

*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

*Security and Organization within IoT and Smart Cities* Kayhan Ghafoor, Kevin Curran, Linghe Kong, Ali Safa Sadiq, 2020-12-30 This book aims to provide the latest research developments and results in the domain of AI techniques for smart cyber ecosystems It presents a holistic insight into AI enabled theoretic approaches and methodology in IoT networking security analytics using AI tools and network automation which ultimately enable intelligent cyber space This

book will be a valuable resource for students researchers engineers and policy makers working in various areas related to cybersecurity and privacy for Smart Cities This book includes chapters titled An Overview of the Artificial Intelligence Evolution and Its Fundamental Concepts and Their Relationship with IoT Security Smart City Evolution and Fundamental Concepts Advances in AI Based Security for Internet of Things in Wireless Virtualization Environment A Conceptual Model for Optimal Resource Sharing of Networked Microgrids Focusing Uncertainty Paving Path to Eco friendly Smart Cities A Novel Framework for a Cyber Secure Smart City Contemplating Security Challenges and Threats for Smart Cities Self Monitoring Obfuscated IoT Network Introduction to Side Channel Attacks and Investigation of Power Analysis and Fault Injection Attack Techniques Collaborative Digital Forensic Investigations Model for Law Enforcement Oman as a Case Study Understanding Security Requirements and Challenges in the Industrial Internet of Things A Review 5G Security and the Internet of Things The Problem of Deepfake Videos and How to Counteract Them in Smart Cities The Rise of Ransomware Aided by Vulnerable IoT Devices Security Issues in Self Driving Cars within Smart Cities and Trust Aware Crowd Associated Network Based Approach for Optimal Waste Management in Smart Cities This book provides state of the art research results and discusses current issues challenges solutions and recent trends related to security and organization within IoT and Smart Cities We expect this book to be of significant importance not only to researchers and practitioners in academia government agencies and industries but also for policy makers and system managers We anticipate this book to be a valuable resource for all those working in this new and exciting area and a must have for all university libraries

**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 Systems Design & Management** Frédéric Boulanger, Daniel Krob, Gérard Morel, Jean-Claude Roussel, 2014-10-24 This book contains all refereed papers that were accepted to the fifth edition of the Complex Systems Design Management CSD M 2014 international

conference which took place in Paris France on the November 12 14 2014 These proceedings cover the most recent trends in the emerging field of complex systems sciences practices from an industrial and academic perspective including the main industrial domains aeronautic aerospace transportation systems defense security electronics robotics energy environment health welfare services software e services scientific technical topics systems fundamentals systems architecture engineering systems metrics quality systemic tools and system types transportation systems embedded systems software information systems systems of systems artificial ecosystems The CSD M 2014 conference is organized under the guidance of the CESAMES non profit organization address CESAMES 8 rue de Hanovre 75002 Paris France

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

**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

*Development of Smart Context-Aware Services for Cargo Transportation* Dalė Dzemydienė, Aurelija Burinskienė, Kristina

Čižiūnienė, Arūnas Miliauskas, 2022-09-02 With a focus on cargo transportation this book addresses the development of approaches intended to secure an infrastructure of smart services to support the adaptive implementation of online multi modal freight transport management processes It discusses the development of multi criteria decision making components and their integration into the multi layered computer based information management of intelligent systems Through detailed descriptions of various components of intelligent transport management systems the book demonstrates how to develop the services needed in the right place and at the right time and how to properly adapt to user needs making necessary interventions to ensure the safety of the transportation process Further it describes the main ways to increase the autonomy and efficiency of user vehicle interaction and shows how Information and Communications Technology ICT structural support for current and past situations in AI based systems can help to anticipate future developments in freight transportation

*International Organizations and the Law of the Sea 1995* Netherlands Institute for the Law of the Sea (NILOS), 2023-12-21 On 16 November 1994 the 1992 U N Law of the Sea Convention took effect Progress is now evident in the implementation of Chapter 17 of Agenda 21 as reviewed by the 1997 UNGA Special Session These developments and the establishment of the International Seabed Authority ISBA and the International Tribunal for the Law of the Sea ITLOS make the continuation of the NILOS Documentary Yearbook now in its 11th year of particular significance in the years to come The Yearbook compiles the documents related to ocean affairs and the law of the sea issued each year by organizations organs and bodies of the United Nations system These include documents of the U N General Assembly ECOSOC and its regional Commissions the U N Secretary General s Informal Consultations PrepCom ISA ITLOS UNCED UNEP and UNCTAD followed by the documents of specialized agencies and other autonomous organizations of the U N system including FAO IAEA ILO IMO UNESCO IOC and WMO The Yearbook reproduces in full documents issued in the course of the most recent year and lists other relevant documents The NILOS Documentary Yearbook has proved of invaluable assistance in facilitating access by the community of scholars and practitioners in ocean affairs and the law of the sea to essential documentation

**Creating Resilient Transportation Systems** John Renne, Brian Wolshon, Anurag Pande, Pamela Murray-Tuite, Karl Kim, 2022-02-05 Creating Resilient Transportation Systems Policy Planning and Implementation demonstrates how the transportation sector is a leading producer of carbon emissions that result in climate change and extreme weather disruptions and disasters In the book Renne Wolshon Murray Tuite Pande and Kim demonstrate how to minimize the transportation impacts associated with these urban disasters with an ultimate goal of returning them to at least status quo in the shortest feasible time Assesses the short and long term impacts of transportation systems on the natural environment at local regional and global scales Examines transportation systems in relation to risk vulnerability adaptation mitigation sustainability climate change and livability Shows how urban transportation investments in transit walking and bicycling result in significantly lower per capita carbon emissions when compared to investing in sprawling automobile dependent

regions     Digital Technologies in Logistics and Infrastructure Igor Ilin, Carlos Jahn, Andrea Tick, 2023-01-25 This book is a collection of best selected research papers from the Digital Technologies in Logistics and Infrastructure conference ICDT 2021 The topics of the presented papers are related to various aspects problems and solutions in maritime transport warehouse logistics digital transformation and information technologies in logistics as well as digital transformation of infrastructure industries from theoretical and practical points of view The authors of the conference are representatives of major companies researchers and scientists from Russia Hungary Armenia Kazakhstan Thailand the Netherlands and Finland The conference proceedings are of interest to researchers and practitioners in the field of logistics and infrastructure in various sectors of digitalization     **16th Chaotic Modeling and Simulation International Conference** Christos H. Skiadas, Yiannis Dimotikalis, 2025-01-15 This proceedings of 16th CHAOS2023 International Conference highlights recent developments in nonlinear dynamical and complex systems The conference was intended to provide an essential forum for Scientists and Engineers to exchange ideas methods and techniques in the field of Nonlinear Dynamics Chaos Fractals and their applications in General Science and Engineering Sciences The principal aim of CHAOS2023 International Conference is to expand the development of the theories of the applied nonlinear field the methods empirical data and computer techniques as well as the best theoretical achievements of chaotic theory CHAOS2023 Conference provides a forum for bringing together the various groups working in the area of Nonlinear and Dynamical Systems Chaotic theory and Application to exchange views and report research findings Chapter 22 and 23 are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)     *The OECD Observer* Organisation for Economic Co-operation and Development, 1998     *International Encyclopedia of Transportation*, 2021-05-13 In an increasingly globalised world despite reductions in costs and time transportation has become even more important as a facilitator of economic and human interaction this is reflected in technical advances in transportation systems increasing interest in how transportation interacts with society and the need to provide novel approaches to understanding its impacts This has become particularly acute with the impact that Covid 19 has had on transportation across the world at local national and international levels Encyclopedia of Transportation Seven Volume Set containing almost 600 articles brings a cross cutting and integrated approach to all aspects of transportation from a variety of interdisciplinary fields including engineering operations research economics geography and sociology in order to understand the changes taking place Emphasising the interaction between these different aspects of research it offers new solutions to modern day problems related to transportation Each of its nine sections is based around familiar themes but brings together the views of experts from different disciplinary perspectives Each section is edited by a subject expert who has commissioned articles from a range of authors representing different disciplines different parts of the world and different social perspectives The nine sections are structured around the following themes Transport Modes Freight Transport and Logistics Transport Safety and Security Transport Economics Traffic

Management Transport Modelling and Data Management Transport Policy and Planning Transport Psychology Sustainability and Health Issues in Transportation Some articles provide a technical introduction to a topic whilst others provide a bridge between topics or a more future oriented view of new research areas or challenges The end result is a reference work that offers researchers and practitioners new approaches new ways of thinking and novel solutions to problems All encompassing and expertly authored this outstanding reference work will be essential reading for all students and researchers interested in transportation and its global impact in what is a very uncertain world Provides a forward looking and integrated approach to transportation Updated with future technological impacts such as self driving vehicles cyber physical systems and big data analytics Includes comprehensive coverage Presents a worldwide approach including sets of comparative studies and applications

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