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QYHATJ - BYRON RISHI

The Accelerating Transport Innovation Revolution: A Global, Case Study-based Assessment of Current Experience, Cross-sectorial Effects and Socioeconomic Transformations, offers a comprehensive view of current state-of-the-art and practices around the world to create innovation on a revolutionary scale and connect research to commercial exploitation of its results. It offers a fascinating new model of the innovation process based on theories of biological ecosystems, general systems theory and basins of attraction (represented through space-time graphs well known in mathematics). Furthermore, it considers - through a number of dedicated chapters - key issues and elements of innovation ecosystems, such as: Causal Factors and system constraints affecting the development and sustainability of innovation ecosystems (Chapter 4); Review of innovation organization and governance in key countries and regions (Chapter 5); the role of technological "Spillovers" (Chapter 6); Collection and use of data for innovation monitoring and benchmarking (Chapter 7); Intellectual Property protection between competing ecosystems (Chapter 8); Economics of innovation (Chapter 9); Public and private sector involvement in Transport innovation creation (Chapter 10); the role of the individual entrepreneur - innovator in energizing change (Chapter 11). Finally, in Chapter 12, there is a thorough summary of key findings. This book uses a paradigmatic approach to augment the innovation ecosystem model of innovation that integrates beliefs and learning into the innovation ecosystems model. It therefore includes ten case studies from the U.S., Europe and Asia, detailing how innovation is created across continents and different ecosystems and what are the critical lessons to be learned. It does this, effectively, at five different levels of analysis i.e. the individual innovator / entrepreneur level, the organization level (government agency or company), the regional ecosystem level, the nation-state level and the global - systemic or international level. Each level of analysis, reveals unique features of the innovation landscape and the ten case studies allow the reader to assess when and where specific "enablers" are facilitating innovation especially on a revolutionary scale. The need for the book came from the realization that despite the billions of dollars spent on various research programs over the past 20 years (especially in the public sector), there have been few clear and tangible efforts directed at exploring how innovation production increasingly occurs and the critical factors necessary to sustain large-scale, revolutionary change as the future unfolds. Thus, a primary theme of the book is that understanding how research results translate into market innovation and implementation, especially understanding the nature of revolutionary innovation, is as important as the creation of innovations themselves. While the focus of the book is on Transportation, the concepts and recommendations presented apply to other fields too. Formulates and presents a workable and comprehensive new model of innovation Defines and analyzes many concepts and notions related to inno-

vation, research and market implementation Examines the critical factors affecting innovation production and successful commercial implementation of research results Examines organizational models of coordination, governance, data collection, process analysis and use of intellectual property tools Includes recent, well-researched and documented case studies of successful innovation ecosystems across the world mainly - but not only - in the Transport field

This expanded and revised fourth edition of The Geography of Transport Systems provides a comprehensive and accessible introduction to the field with a broad overview of its concepts, methods and areas of application. Aimed mainly at an undergraduate audience, it provides an overview of the spatial aspects of transportation and focuses on how the mobility of passengers and freight is linked with geography. The book is divided in ten chapters, each covering a specific conceptual dimension, including networks, modes, terminals, freight transportation, urban transportation and environmental impacts, and updated with the latest information available. The fourth edition offers new material on the issues of transport and the economy, city logistics, supply chains, security, energy, the environment, as well as a revised content structure. With over 160 updated photographs, figures and maps, The Geography of Transport Systems presents transportation systems at different scales ranging from global to local and focuses on different contexts such as North America, Europe and East Asia. This volume is an essential resource for undergraduates studying transport geography, as well as those interested in economic and urban geography, transport planning and engineering. A companion web site, which contains additional material, has been developed for the book and can be found here: <http://people.hofstra.edu/geotrans/>

This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning, control, management, and future planning. It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently - to become 'smart' and 'sustainable'. The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city, as well as being central to new ways in which the population can communicate and act. When cities are wired in this way, they have the potential to become sentient and responsive, generating massive streams of 'big' data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing. This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling. It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart

city, and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity.

Demand for Emerging Transportation Systems: Modeling Adoption, Satisfaction, and Mobility Patterns comprehensively examines the concepts and factors affecting user quality-of-service satisfaction. The book provides an introduction to the latest trends in transportation, followed by a critical review of factors affecting traditional and emerging transportation system adoption rates and user retention. This collection includes a rigorous introduction to the tools necessary for analyzing these factors, as well as Big Data collection methodologies, such as smartphone and social media analysis. Researchers will be guided through the nuances of transport and mobility services adoption, closing with an outlook of, and recommendations for, future research on the topic. This resource will appeal to practitioners and graduate students. Examines the dynamics affecting adoption rates for public transportation, vehicle-sharing, ridesharing systems and autonomous vehicles Covers the rationale behind travelers' continuous use of mobility services and their satisfaction and development Includes case studies, featuring mobility stats and contributions from around the world

This book is an empirically rich case-study of what is currently the most popular alternative-fuel vehicle in the history of motorization – the electric two-wheeler (e-bike). The book provides sociological insights into e-bike mobility in China and discusses politics, social practices and larger issues of mobility transition in urban China. Taking an accessible approach to the subject, the book identifies the main sociospatial conflicts regarding the use of e-bikes and discusses why electric two-wheeler mobility is important for the future of urban China and urban transportation globally. This book will be an invaluable read for urban geographers and transportation researchers, but also for academics and general readers interested in Chinese Studies, specifically in the area of urban mobility in China.

Stough (public policy, George Mason U.) brings together nine contributions that evaluate the prospects for Intelligent Transport Systems (ITS) to solve the dilemma caused by increasing demands for mobility combined with reluctance to continue to build traditional transportation infrastructure such as highways. These systems encompass a complex of information technologies. The chapters offer case studies of systems deployed in the Washington D.C. metropolitan area and use multi-criteria methodologies to evaluate the cost-effectiveness of the programs. Electronic tolling systems, variable message signs, automatic truck rollover warning systems, and several other technologies are discussed and evaluated. The final chapter applies simulation modeling to estimate the effects the addition of several ITS technologies will have on congestion and mobility in the Northern Virginia region. c. Book News Inc.

Public Mobility Systems deals with real case studies relating to mass transport, rapid transit services, carpooling measures and car sharing strategies. The included papers present case studies from all over the world including: Zagreb, Croatia; Mexico City, Mexico; Holy Makkah, Saudi Arabia and the Gauteng region of South Africa. Papers are also included which relate to the more theoretical aspects of transit systems, which span general methodology, the latest advancements and model analysis. It is well-known that model development cannot replace a deep knowledge and understanding of real world phenomena and human experiences. To this end, the book collects fragments of public mobility systems both from international practices and academic theory, in an effort to share current research and ideas to progress and lay the groundwork for future innovations. The book will be of

interest to research and academic organisations as well as practitioners, especially in large civil engineering consultancies. Many papers from the book can also be used as advanced background reading in graduate courses on transport studies and traffic engineering.

This book presents essential new governance structures to embrace and regulate smart mobility modes. Drawing on a range of case studies, it paves the way for new approaches to governing future transportation systems. Over the past decades, Information and Communication Technologies have enabled the development of new mobility solutions that have completely redefined traditional and well-established urban transportation systems. Urban transportation systems are evolving dramatically, from the development of shared mobility modes, to the advent of electric mobility, and from the automated mobility trend to the rapid spread of integrated transportation schemes. Given the disruptive nature of those new mobility solutions, new governance structures are needed. Through a series of case studies from around the world, this book highlights governance and regulatory processes having supported, or sometimes prevented, the development and implementation of smart mobility solutions (shared, automated, electric, integrated). The combination of chapters offers a comprehensive overview of the different research endeavours focusing on the governance of smart transportation systems and will help pave the way for this important subject, which is crucial for the future of cities.

Measuring Transport Equity provides a methodology with the potential to shape the transportation decision-making processes, thus allowing for the adoption of more equitable transport solutions. Focusing on numerous applied methodological approaches to transport equity assessment, the book formalizes the disciplinary practice, definitions and methodologies for transport equity. In addition, it recognizes the different types of equity and acknowledges that each requires their own assessment methodologies. Bringing together the most up-to-date perspectives and practical approaches for assessing transportation accessibility, environmental impacts, health and wellbeing, the book sets standards for researchers, policymakers and practitioners for conducting social impact analyses. Written by a collection of top researchers in the transport field Shows how to apply transport equity measurement ideas in the real-world through case study examples Covers emerging transport topics, including the use of the Gini index for measuring inequality Includes learning aids, such as methodology, application, policy relevance and further reading

Transportation planning plays a key role as a lifeline for any society. It comprises applications of science and art, where a great deal of judgment coupled with its technical elements is required to arrive at a meaningful decision in order to develop transportation infrastructure facilities for the community. It, thereby, helps in achieving a safer, faster, comfortable, convenient, economical, sustainable and environment-friendly movement of people and goods traffic. In this context, the book has been written, and now updated in the second edition dealing with the basic principles and fundamentals of transportation planning. It also keeps abreast of the current techniques practices and policies conducted in transportation planning. Exploiting a systematic approach avoiding prolixity, this book will prove to be a vade mecum for the undergraduate and postgraduate students of civil engineering and transportation engineering. Besides, the book is of immense benefit to the students opting a course on Mater of Planning conducted in various institutes. **HIGHLIGHTS OF THE BOOK** • Systematically organised concepts well-supported with ample illustrations • Prodigious illustrative figures and tables • Chapter-end summary helps in grasping the quirk concepts • State-of-the-art

data garnered in the book presents an updated version • Chapter-end review questions help students to prepare for the examination NEW TO THE SECOND EDITION • Provides Fuzzy Logic, Artificial Neural Network and Neuro Fuzzy Model techniques (Chapter 4) • Incorporates the formation of travel demand model with soft computing techniques including trip generation model (Chapter 5) • Provides a practical approach of calibrating Origin Destination Matrix (Chapter 6) • Incorporates the concept of mode choice models with a number of worked-out examples (Chapter 7) • Provides a case study on mobility plan of Gandhinagar, Gujarat, demonstrating the development of all stages of transport modelling (Chapter 11) • Includes a new appendix on "Applications of Soft Computing in Trip Distribution and Traffic Assignment"

This book presents the latest, most interesting research efforts regarding Intelligent Transport System (ITS) technologies, from theory to practice. The book's main theme is "Mobility for everyone by ITS"; accordingly, it gathers a range of contributions on human-centered factors in the use or development of ITS technologies, infrastructures, and applications. Each of these contributions proposes a novel method for ITS and discusses the method on the basis of case studies conducted in the Asia-Pacific region. The book are roughly divided into four general categories: 1) Safe and Secure Society, 2) ITS-Based Smart Mobility, 3) Next-Generation Mobility, and 4) Infrastructure Technologies for Practical ITS. In these categories, several key topics are touched on with each other such as driver assistance and behavior analysis, traffic accident and congestion management, vehicle flow management at large events, automated or self-driving vehicles, V2X technologies, next-generation public transportation systems, and intelligent transportation systems made possible by big data analysis. In addition, important current and future ITS-related problems are discussed, taking into account many case studies that have been conducted in this regard.

Bringing together the latest interdisciplinary theoretical approaches with empirical case studies analysing and appraising innovative policies from Scandinavia, this volume demonstrates that mobility research is a key issue within social enquiry. It addresses three broad themes, and in the final section of the book new visions for research into sustainability and mobility are laid out.

This publication has been designed to assist member States in integrating transport, health, quality of life and environmental objectives into urban and spatial planning policies. It provides many references to case studies, good practices and examples from cities across the Euro-Asian region (and beyond) covering a wide array of thematic areas, including: the future of sustainable urban mobility; spatial planning in function of sustainable urban mobility and accessibility; public transport planning as a cornerstone of sustainable urban mobility; active mobility and how it promotes health and the environment; and the potential of Intelligent Transport Systems in an urban context. The publication puts forward a methodology for sustainable urban transport planning and introduces a concise set of key messages and recommendations as an input to the Fifth High-level Meeting on Transport, Health and Environment which takes place in Vienna from 26-27 November 2020.

This book constitutes the thoroughly refereed proceedings of the Third Ibero-American Congress, ICSC-CITIES 2020, held in Costa Rica, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 21 full papers presented were carefully reviewed and selected from 99 submissions. The papers are organized on topical sections on Energy Efficiency and Sustainability; Mobility and IoT; Infrastructure, Environment, Governance.

This book offers solutions for creating sustainable urban transpor-

tation. Topics include historical developments, planning, policy and legislative initiatives, nonmotorized and public transportation, environmental and social justice issues, and safety. The author discusses social, health and economic consequences of auto-centric transportation and possible policy measures to address them. The important topic of changing travel behavior is discussed. Chapters contain straightforward concepts, case studies, review questions and ideas for class projects. Instructors considering this book for use in a course may request an examination copy here.

The Politics of Mobility presents case studies of local transport policy-making and in-depth analysis of UK national transport policy in the period 1987-2000 to highlight how policy was promoted and resisted.

Providing a collection of research works on the continuing requirement for better urban transport systems, this volume consists of papers presented at the 24th International Conference on Urban Transport and the Environment. The need for better urban transport systems and for a healthier environment has resulted in a wide range of research originating from many different countries. These studies highlight the importance of innovative systems, new approaches and original ideas, which need to be thoroughly tested and critically evaluated before they can be implemented in practice. Moreover, there is a growing need for integration with telecommunications systems and IT applications in order to improve safety, security and efficiency. This book also addresses the need to solve important pollution problems associated with urban transport in order to achieve a healthier environment. The variety of topics covered in this volume reflects the complex interaction of the urban transport systems with their environment and the need to establish integrated strategies. The aim is to arrive at optimal socio-economic solutions while reducing the negative environmental impacts of current transportation systems.

Transportation-related challenges exist all over the world, with all countries struggling to develop efficient, effective and user-friendly transportation systems. Today, policy agencies and financing institutions are keen to invest heavily for a potentially good transport systems, as good mobility is pertinent to social growth and a sustainable environment. Intelligent Transportation Systems (ITS) have become a global area of growth in recent times because of increasing demand for mobility, rampant urbanization, and depleting energy reserves. Existing conventional transport infrastructure fails to meet the ever-increasing demand; building additional transportation infrastructure is cumbersome, as it is time-consuming and capital-intensive and available land space is very limited. Therefore, there is a pressing need for innovative and locally relevant systems that can be built rapidly with less investment by leveraging advances in technology. Good ITS enable informed decision-making for all stakeholders. This book presents the ingredients of good ITS, not from a technology perspective, but from a business administration, management, and policy perspective. The emphasis is on practice-oriented, impactful and context relevant systems. Short, real-life case studies are presented for each topic, to keep the discerning transportation enthusiast engaged.

Car Troubles central premise is that the car as the dominant mode of travel needs to be problematized. It examines a wide range of issues that are central to automobility by situating it within social, economic, and political contexts, and by combining social theory, specific case studies and policy-oriented analysis. With an international team of contributors the book provides a coherent and comprehensive analysis of the global phenomenon of automobility from the Anglo world to the cases in China and Chile and all the elements that relate to it.

Most cities of the Latin America and the Caribbean region face

similar problems, including low quality public transport supply, lack of planning, congestion, and both atmospheric and noise pollution. As a response to these growing concerns, many governments are implementing actions aimed at encouraging the use of more sustainable transport modes and reducing transport dependence on the private car. Despite the advances gained through the implementation of these and other policies in LAC, there is still a long way to go, especially in the promotion of seamless transport systems at the city level, the achievement of financial sustainability, as well as the improvement of urban air quality. This study identifies a number of best practices for overcoming or working around these challenges.

Mobility Patterns, Big Data and Transport Analytics provides a guide to the new analytical framework and its relation to big data, focusing on capturing, predicting, visualizing and controlling mobility patterns - a key aspect of transportation modeling. The book features prominent international experts who provide overviews on new analytical frameworks, applications and concepts in mobility analysis and transportation systems. Users will find a detailed, mobility 'structural' analysis and a look at the extensive behavioral characteristics of transport, observability requirements and limitations for realistic transportation applications and transportation systems analysis that are related to complex processes and phenomena. This book bridges the gap between big data, data science, and transportation systems analysis with a study of big data's impact on mobility and an introduction to the tools necessary to apply new techniques. The book covers in detail, mobility 'structural' analysis (and its dynamics), the extensive behavioral characteristics of transport, observability requirements and limitations for realistic transportation applications, and transportation systems analysis related to complex processes and phenomena. The book bridges the gap between big data, data science, and Transportation Systems Analysis with a study of big data's impact on mobility, and an introduction to the tools necessary to apply new techniques. Guides readers through the paradigm-shifting opportunities and challenges of handling Big Data in transportation modeling and analytics Covers current analytical innovations focused on capturing, predicting, visualizing, and controlling mobility patterns, while discussing future trends Delivers an introduction to transportation-related information advances, providing a benchmark reference by world-leading experts in the field Captures and manages mobility patterns, covering multiple purposes and alternative transport modes, in a multi-disciplinary approach Companion website features videos showing the analyses performed, as well as test codes and data-sets, allowing readers to recreate the presented analyses and apply the highlighted techniques to their own data

The future of disability in America will depend on how well the U.S. prepares for and manages the demographic, fiscal, and technological developments that will unfold during the next two to three decades. Building upon two prior studies from the Institute of Medicine (the 1991 Institute of Medicine's report *Disability in America* and the 1997 report *Enabling America*), *The Future of Disability in America* examines both progress and concerns about continuing barriers that limit the independence, productivity, and participation in community life of people with disabilities. This book offers a comprehensive look at a wide range of issues, including the prevalence of disability across the lifespan; disability trends the role of assistive technology; barriers posed by health care and other facilities with inaccessible buildings, equipment, and information formats; the needs of young people moving from pediatric to adult health care and of adults experiencing premature aging and secondary health problems; selected issues in health care financing (e.g., risk adjusting payments to health

plans, coverage of assistive technology); and the organizing and financing of disability-related research. *The Future of Disability in America* is an assessment of both principles and scientific evidence for disability policies and services. This book's recommendations propose steps to eliminate barriers and strengthen the evidence base for future public and private actions to reduce the impact of disability on individuals, families, and society.

This book gathers together innovative research and practical findings relating to urban mobility transformation. It is especially intended to provide academicians, researchers, practitioners and decision makers with effective strategies and techniques that can support urban mobility in a sustainable way. The chapters, which report on contributions presented at the 5th Conference on Sustainable Urban Mobility, held virtually on June 17-19, 2020, from Greece, cover the thematic areas of: social networks and traveler behavior; applications of technologies in transportation and big data analytics; transport infrastructure and traffic management; and transportation modeling and impact assessment. Special attention is given to public transport and demand responsive systems, electromobility, micromobility and automated vehicles. The book addresses the challenges of the near future, highlighting the importance of knowledge transfer, and it is intended to foster communication among universities, industries and public administration.

This volume of *Transport and Sustainability* focuses on how spatial and social mobilities are intertwined in the reproduction of spatial and social inequities in Latin American cities.

The contemporary urban experience is defined by flow and structured by circulating people, objects, and energy. Geographers have long provided key insights into transportation systems. But today, concerns for social justice and sustainability motivate new, critical approaches to mobilities. Reimagining the city prompts an important question: How best to rethink urban geographies of transport and mobility? This original book explores connections - in theory and practice - between transport geographies and "new mobilities" in the production of urban space. It provides a broad introduction to intersecting perspectives of urban geography, transport geography, and mobilities studies on urban "places of flows." Diverse, international, and leading-edge contributions reinterpret everyday intersections as nodes, urban corridors as links, cities and regions as networks, and the discourses and imaginaries that frame the politics and experiences of mobility. The chapters illuminate nearly all aspects of urban transport, from street regulation and roadway planning, intended and "subversive" practices of car and truck drivers, planning and promotion of mass transit investments, and the restructuring of freight and logistics networks. Together these offer a unique and important contribution for social scientists, planners, and others interested in the politics of the city on the move.

This book addresses various aspects of electric mobility deployment in public transport. These include transport policy-related issues as well as technical, organizational and technical dimensions of the fleet conversion process (from conventional one towards the increased share of electric vehicles in public transport). In the book, one may find, e.g. the determinants for the successful functioning of electrified transport systems (including charging facilities), models and methods for battery electric bus energy consumption, the analysis regarding the charging strategies (including power-grid) as well as electric vehicle battery issues. As the process of fleet conversion is multi-faceted, the book also contains the issues related to cybersecurity in public transport, autonomous vehicles and hyperloop. The book is dedicated to transport professionals, consulting companies and researchers in the field of electromobility and modern transport systems.

Car-Free Mobility: Creating Seamless Public Transport Networks features the latest principles in urban and suburban transport network design, assisting transportation researchers and planners with understanding and designing the most effective and technologically advanced networks to serve modern societies. The book provides practical examples of the principles of public transport planning and design from different parts of the world, through case studies and the latest transportation research and theoretical analysis. Transportation researchers, planners, policymakers and administrators will find advice on the required investments for quality public transport network implementation in a variety of geographic settings. Topics discussed include demand-responsive public transport, paratransit and flexible transport services, impacts from technology, smart phones, and new information on business models. Reviews the latest academic research, helping bridge the gap between research and urban and suburban transport network practical applications around the world. Discusses solutions for a wide variety of community sizes, from large cities, to suburbs and rural districts. Features universal design principles, such as mathematics, geometry, technology, logistics, and economics, as learned from the UK's HITRANS project and similar projects, with expanded discussions on heavy metro, suburban, and regional rail and bus services.

Despite extensive efforts to understand the overall effect of urban structure on the current patterns of urban mobility, we are still far from a consensual perspective on this complex matter. To help build agreement on the factors influencing travel behaviour, this book discusses the influence of alternative urban structures on sustainable mobility. Bringing together two existing and complementary methods to study the relationship between urban structure and mobility, the authors compare two case studies with distinct urban structures and travel behaviour (Copenhagen and Oporto). Of particular concern is the influence of urban structure factors, namely land use and transport system factors, and motivational factors related to the social, economic and cultural characteristics of the individual traveller. The research presented in this book highlights the relevance of centrality in travel behaviour and in more sustainable travel choices. Different operational forms of the centrality concept are revealed as important: it is shown that more sustainable travel can be influenced by several urban structure factors and that no particular combination is required as long as a certain level of centrality is provided. Finally, the book concludes that urban structure can, on the one hand, constrain and, on the other hand, influence travel choice.

Growing mobility is a significant feature of modern societies. Phenomena such as the Internet, modern information and communication technologies, smart phones, social networks as well as the development of automobile transport, the expansion of air transport, the development of high-speed railways and many others result in a steep increase of intensity of physical and virtual contacts in space. Czech Republic as a post-socialist country belongs to states, where the research of daily mobility processes and transport behaviour were studied rather rarely. After the fall of the Iron Curtain after 1989, economic, political and social transformation processes started to manifest considerably within this territory, naturally impacting also transport and mobility. These resulted in quite new principles of organization of transport relations in space as well as the origination of new phenomena supporting the growth of mobility. The main purpose of the study is a detailed survey of current daily mobility and transport behaviour in the Czech Republic using the traditional (travel diaries) and modern (GPS devices) research methods.

The transition towards 'smarter' autonomous transport systems calls for a rethink in how transport is governed/who governs it, to

ensure a step-change to a more sustainable future. This book critically reflects on these governance challenges analysing the role of the state; the new actors and discourses; and the implications for state capacity.

Discusses how transit impacts and improves community life in the United States.

Chelsea Tschoerner-Budde analyzes discourse in two cases of sustainable mobility policymaking in Munich: cycling promotion and electric mobility promotion. Both cases revealed that the formation and integration of a new, socially driven discourse on everyday mobility was necessary for policy change. Historically, transport policy has been structured to improve flow and manage transport systems. The new 'everyday mobility cultures' approach presents a potential framework for improving policymaking and fostering a transition in the transport sector.

"Smart cities rely on information and communication technologies to enhance the quality of life of their citizens. This includes better use of transportation infrastructure, use of public transport, clean fuels, efficient utilization of parking spaces, and car-sharing through the use of technologies such as internet of things, cloud computing, and blockchain while keeping in account environmental goals. Mobility management in urban areas is challenging yet critical. For the smooth transportation of goods and people, a detailed study of the city system elements from multiple perspectives is required. In this book, theoretical models, literature reviews and case studies to improve mobility in smart cities are provided. The key problems addressed are the allocation of pay and display parking machines, electric vehicle charging station location optimization, facility location planning under stochastic disruption, pedestrian safety planning using internet of things, assessing the environmental effect of airports on cities and populations, antecedents and outcomes of reverse supply chain and social sustainability practices, discrete event simulation for car-sharing fleet management strategies, data mining models for road transport GHG emissions prediction, bibliometric analysis on smart city mobility, and blockchain for supply chain traceability application. Simulation, optimization, machine learning and qualitative methodologies are used. The book will serve as a very useful resource to academicians and practitioners working in the field"--

The widespread adoption of smartphones, ridesharing and car-sharing have disrupted the transport sector. In cities around the world, new mobility services are both welcomed and challenged by regulators and incumbent operators. Mobility as a Service (MaaS), an ecosystem designed to deliver collaborative and connected mobility services in a society increasingly embracing a sharing culture, is at the center of this disruption. Understanding Mobility as a Service (MaaS): Past, Present and Future examines such topics as: How likely MaaS will be implemented in one digital platform app Whether MaaS will look the same in all countries The role multi-modal contract brokers play Mobility regulations and pricing models MaaS trials, their impacts and consequences Written by the leading thinkers in the field for researchers, practitioners, and policy makers, Understanding Mobility as a Service (MaaS): Past, Present and Future serves as a single source on all the current and evolving developments, debates, and challenges. Includes case studies to show how MaaS is delivered around the world Covers foundational aspects of MaaS, clarifying what it is for those new to the concept Offers an in-depth analysis on a wide range of MaaS topics including governance, contracts, consumer and supplier preferences, links to societal objectives, the role of trials, assessments, and more

This book provides an innovative perspective on migration, mobility and transport. Using concepts drawn from migration history,

mobilities studies and transport history it makes the case for greater integration of these disciplines. The approach is historical, demonstrating how past processes of travel and population movement have evolved, examining the continuities and changes that have occurred, and arguing that many of the concepts used in mobilities studies today are equally relevant to the past. The three central chapters view past population movements through, respectively, the lenses of migration history, mobilities studies and transport. Two further chapters demonstrate the diversity of mobility experiences and the opportunities and difficulties of applying this approach in teaching and research. Extensive case study material from around the world is used, including personal diaries, which vividly recreate the everyday experiences of past mobilities. Population movement has never been of more importance globally: this book demonstrates how knowledge of past mobility experiences can inform our understanding of the present.

This co-edited book focuses on the state-of-the-art research in transportation in India. Exploring the need for a sustainable transport paradigm in India, this timely book offers solution concepts for mobility and infrastructure challenges faced by local, state, and national transport authorities. The contents provide a holistic understanding of the paradigm, considering several case-studies and study findings from the leading transportation researchers in India. At the same time, it also addresses the pressing transportation related challenges such as road user safety, traffic operation efficiency, economic and social development, non-motorized transport planning, environmental impact mitigation, energy consumption reduction, land-use, equity, freight transport planning, multimodal coordination, access for the diverse range of travellers' needs, sustainable pavement construction, and emerging vehicle technologies. The existing practices and policies in all the sectors and levels of transport are highlighted in this book with an emphasis on a broader vision for achieving sustainable and inclusive development. The information and data-driven inferences compiled in the book will be useful for practitioners, policymakers, educators, researchers, students, and individual learners.

This proceedings volume examines individual city transports, transport companies and entire transport systems. Featuring select contributions presented at the 2018 TranSopot Conference in Sopot, Poland, this book provides an analysis of transportation solutions both at the micro-level (single city or single company) as well as the macro-level (whole transportation systems). The enclosed research and case studies provide a theoretical background for transport analysis but also new innovative and sustainable solutions to transportation while also increasing the efficiency

of transport operations. Transportation is a very specific area of social and economic life. It creates countless opportunities and fulfills the need for mobility while also generating significant cost—direct for the company or indirect to societies. Planning and organizing transport is a task which requires a multi-level approach with a focus on operational, ecological and financial aspects. At a time in which many transport systems are unable to grow extensively due to lack of space or increased cost, these activities are even more crucial. The enclosed research from researchers, scholars and practitioners provides not only new theories but also empirical data and practical experience. The TranSopot 2018 conference is a continuation of a long series of conferences devoted to the topic of transport sector development. The goal of the conference is to exchange current trends and spread the results of current research into the fields of transport growth, development and management.

The report presents an in-depth analysis of various policies that aim to reduce the greenhouse gas emissions of urban transport. Decarbonising transport lies at the core of efforts to mitigate climate change and has close links to urban sustainability and housing affordability. The report identifies the drivers of rising emissions in the urban transport sector and offers pathways to reduce them through a combination of transport and land use policies.

Autonomous Vehicles and Future Mobility presents novel methods for examining the long term effects on individuals, society, and on the environment on a wide range of forthcoming transport scenarios such self-driving vehicles, workplace mobility plans, demand responsive transport analysis, mobility as a service, multi-source transport data provision, and door-to-door mobility. With the development and realization of new mobility options comes change in long term travel behavior and transport policy. Autonomous Vehicles and Future Mobility addresses these impacts, considering such key areas as attitude of users towards new services, the consequences of introducing of new mobility forms, the impacts of changing work related trips, the access to information about mobility options and the changing strategies of relevant stakeholders in transportation. By examining and contextualizing innovative transport solutions in this rapidly evolving field, Autonomous Vehicles and Future Mobility provides insights into current implementation of these potentially sustainable solutions, serving as general guidelines and best practices for researchers, professionals, and policy makers. Covers hot topics including travel behavior change, autonomous vehicle impacts, intelligent solutions, mobility planning, mobility as a service, sustainable solutions, and more Examines up to date models and applications using novel technologies Contributions from leading scholars around the globe Case studies with latest research results