
Read Online Application And Theory Psychology Transport And Traffic

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Traffic and Transport Psychology

Theory and Application

Elsevier Just as our transport systems become more and more important to our economic and social well-being, so they become more and more crowded and more at risk from congestion, disruption, and collapse. Technology and engineering can provide part of the solution, but the complete solution will need to take account of the behaviour of the users of the transport networks. The role of psychologists in this is to understand how people make decisions about the alternative modes of transport and about the alternative routes to their destinations, to understand how novice and other vulnerable users can develop safe and effective behaviours, how competent users can operate within the transport system optimally and within their perceptual and cognitive limitations. The contributions to this volume address these issues of how the use of our transport systems can be improved by taking into account knowledge of the behaviour of the people who use the systems. Topics discussed include driver training and licensing, driver impairment, road user attitudes and behaviour, enforcement and behaviour change, driver support systems, and the psychology of mobility and transport mode choice. This work will be of value not only to psychologists but to all transport professionals interested in the application of psychology to traffic.

Traffic and Transport Psychology

Proceedings of the ICTTP 2000

Elsevier This volume gives an overview of the trends in Traffic and Transport Psychology. It reflects the considerable development of the most important factors for driving a road vehicle, and the variety of international research approaches. The first part contains basic approaches and integrated models as well as general theories and their implementation into Traffic and Transport Psychology. The second part deals with the driver, especially cognition, performance, social and differential effects and impairment. Important aspects are treated, such as speed perception, reaction times, interaction, risk acceptance, aggression and gender differences. Special chapters refer to performance and fatigue. The third part focuses on safety, driver support, selection and influencing drivers by enforcement, training and programs for the rehabilitation of traffic offenders. Classic ergonomic methods are discussed as well as modern telematic devices, or trends regarding driver-assessment. In the last part, current developments are presented in relation to better mobility and the protection of the environment. Questions are asked, such as whether we could reduce the use of cars, how travel behaviour can be modified or to what extent the use of alternatives to motor vehicles benefits safety as well as the environment. This work is not only important for psychologists. It should be read by all transport professionals interested in the application of psychology to traffic.

Traffic & Transport Psychology

Theory and Application

Traffic and Transport Psychology

Theory and Application

TRAFFIC and Transport Psychology

Theory and Application Proceedings of the ICTTP 2000

Traffic and Transport Psychology

Theory and Application

Emerald Group Publishing Presents a balanced and representative overview of the major developments and trends in traffic and transport psychology. This book deals with driver performance and social factors. It presents arguments for integrated models, for alternative paradigms and for a blatant a theoretical approach to driver behaviour.

Handbook of Traffic Psychology

Academic Press The Handbook of Traffic Psychology covers all key areas of research in this field including theory, applications, methodology and analyses, variables that affect traffic, driver problem behaviors, and countermeasures to reduce risk on roadways. Comprehensive in scope, the methodology section includes case-control studies, self-report instruments and methods, field methods and naturalistic observational techniques, instrumented vehicles and in-car recording techniques, modeling and simulation methods, in vivo methods, clinical assessment, and crash datasets and analyses. Experienced researchers will better understand what methods are most useful for what kinds of studies and students can better understand the myriad of techniques used in this discipline. Focuses specifically on traffic, as opposed to transport Covers all key areas of research in traffic psychology including theory, applications, methodology and analyses, variables that affect traffic, driver problem behaviors, and countermeasures to reduce the risk of variables and behavior Contents include how to conduct traffic research and how to analyze data Contributors come from more than 10 countries, including US, UK, Japan, Netherlands, Ireland, Switzerland, Mexico, Australia, Canada, Turkey, France, Finland, Norway, Israel, and South Africa

Behavioural Adaptation and Road Safety

Theory, Evidence and Action

CRC Press Despite being an accepted construct in traffic and transport psychology, the precise nature of behavioural adaptation, including its causes and consequences, has not yet been established within the road safety community. A comprehensive collection of recent literature, Behavioural Adaptation and Road Safety: Theory, Evidence, and Action explores behavioural adaptation in road users. It examines behavioural adaptation within the context of historical and theoretical perspectives, and puts forth tangible—and practical—solutions that can effectively address adverse behavioural adaptation to road safety interventions before it occurs. Edited by Christina Rudin-Brown and Samantha Jamson, with chapters authored by leading road safety experts in driver psychology and behaviour, the book introduces the concept of behavioural adaptation and details its more relevant issues. It reviews the definition of behavioural adaptation that was put forward by the OECD in 1990 and then puts this definition through its paces, identifying where it may be lacking and how it might be improved. This sets the context for the remaining chapters which take the OECD definition as their starting points. The book discusses the various theories and models of behavioural adaptation and more general theories of driver behaviour developed during the last half century. It provides examples of the "evidence" for behavioural adaptation—instances in which behavioural adaptation arose as a consequence of the introduction of safety countermeasures. The book then focuses on the internal, "human" element and considers countermeasures that might be used to limit the development of behavioural adaptation in various road user groups. The book concludes with practical tools and methodologies to address behavioural adaptation in research and design, and to limit the potential negative effects before they happen. Supplying easy-to-understand, accessible solutions that can be implemented early on in a road safety intervention's design or conception phase, the chapters represent the most extensive compilation of literature relating to behavioural adaptation and its consequences since the 1990 OECD report. The book brings together earlier theories of behavioural adaptation with more recent theories in the area and combines them with practical advice, methods, and tangible solutions that can minimise the potential negative impact of behavioural adaptation on road user safety and address it before it occurs. It is an essential component of any road safety library, and should be of particular relevance to researchers, practitioners, designers, and policymakers who are interested in maximizing safety while at the same time encouraging innovation and excellence in road transport-related design.

Advances in Traffic Psychology

CRC Press Traffic psychology is a rapidly expanding and broad field within applied psychology with a considerable volume of research activities and a growing network of academic strands of enquiry. The discipline primarily focuses on the behaviour of road users and the psychological processes underlying these behaviours, looking at issues such as cognition, distraction, fatigue, personality and social aspects, often delivering practical applications and educational interventions. Traffic psychology has been the focus of research for almost as long as the motor car has been in existence and was first recognised as a discipline in 1990 when the International Association of Applied Psychology formed Division 13: Traffic and Transportation Psychology. The benefits of understanding traffic psychology are being increasingly recognised by a whole host of organisations keen to improve road safety or minimise health and safety risks when travelling in vehicles. The objective of this volume is to describe and discuss recent advances in the study of traffic psychology, with a major focus on how the field contributes to the understanding of at-risk road-user behaviour. The intended readerships include road-safety researchers from a variety of different academic backgrounds, senior practitioners in the field including regulatory authorities, the private and public sector personnel, and vehicle manufacturers concerned with improving road safety.

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Distributed Situation Awareness in Road Transport

Theory, Measurement, and Application to Intersection Design

Routledge How can we design transport environments that cater to the situation awareness needs of different end-users? This book answers this question by showcasing how state-of-the-art human factors theory and methods can be used to understand how situation awareness differs across drivers, cyclists, motorcyclists, and pedestrians and creates new designs that cater to these diverse situation awareness needs. Written by experts in the field and based on a major program of work funded by the Australian Research Council, this book outlines the distributed situation awareness model and provides practical guidance on how to study situation awareness naturalistically and how to create designs that support, rather than hinder, situation awareness. The book closes by outlining a generic framework to support similar applications in other areas, and discusses future applications in areas such as vehicle automation, artificial intelligence, and cybersecurity.

Traffic Psychology Today

Springer Science & Business Media After several decades of research, practice, intervention, and instruction, traffic psychology is in need of a summary work outlining the main trends in the discipline. Traffic Psychology Today provides a theoretical basis of the topic, a summary of the acquired research in the field, practical applications for government planners, and a critical discussion of future trends. Through a series of chapters contributed by an international group of researchers under the general editorship of Pierre Barjonet, Traffic Psychology Today comprehensively synthesizes thinking in the psychology of traffic from its inception in the mid 1950s through the present day.

Traffic Safety and Human Behavior

Second Edition

Emerald Group Publishing This comprehensive 2nd edition covers the key issues that relate human behavior to traffic safety. In particular it covers the increasing roles that pedestrians and cyclists have in the traffic system; the role of infotainment in driver distraction; and the increasing role of driver assistance systems in changing the driver-vehicle interaction.

Traffic Psychology

Psychology Press This special issue is based on papers presented some of the International Conference of Applied Psychology, in Madrid in 1994. Over 100 presentations were made at this conference, covering almost any conceivable aspect of applying psychology to traffic and transport. Obviously, within a single special issue it is impossible to provide a comprehensive, concise overview of the state-of-the-art within the field. Instead, a thematic approach is followed focusing on the motivational aspects of risk-taking and deviant behavior, preceded by a general overview of the main topics in the field. It is concluded with a research note about the analysis of the psychological literature on driver behavior. Simonet and Wilde discuss risk perception and acceptance and acceptance within the framework of risk-homeostasis theory. West and Hall discuss individual differences in terms of risk, social motivation and attitudes towards traffic law violations. Groeger and Chapman address the same issues but in a strictly experimental stance manipulating normative information presented to drivers. These papers are a representation of where traffic psychology seems to be heading: a realization that driver behavior is determined not only by performance factors (i.e., what he or she is willing to do) which are governed by individual, cultural and situational variables. The literature analysis carried out by Sivak shows that this focus is as yet not apparent in the general literature, where alcohol and driver performance still are the dominant topics. It is hoped that this special issue will convince psychologists that traffic and transport is a fascinating field of application.

Transportation, Traffic Safety and Health — Human Behavior

Fourth International Conference, Tokyo, Japan, 1998

Springer Science & Business Media The focus of this book is to present the latest aspects in the area of human behavior and its relation to planning of an optimal traffic safety. The contributions from authors in various disciplines such as scientists, medical practitioners, administrators and practitioners from the car industry examine how road-user behavior can cause accidents and how decision-makers from various sectors of society may influence road users' behavior. The development of modern vehicles and new traffic systems requires more sophisticated behavior and technology. New medical technologies such as improved neuropsychologic methods and descriptive mapping of behavior with imaging techniques facilitate the understanding of the anatomy and physiology of human behavior. The increased knowledge of normal and pathologic behavior contributes to strengthen primary prevention with the goal of reducing traffic accidents.

Auto Motives

Understanding Car Use Behaviours

Emerald Group Publishing While the individual benefits of car-based travel continues to be recognized, the wider environmental and social cost of automobiles is also significant. This title evaluates the evidence for better understanding 'what drives us to drive'.

Data Science and Simulation in Transportation Research

IGI Global Given its effective techniques and theories from various sources and fields, data science is playing a vital role in transportation research and the consequences of the inevitable switch to electronic vehicles. This fundamental insight provides a step towards the solution of this important challenge. Data Science and Simulation in Transportation Research highlights entirely new and detailed spatial-temporal micro-simulation methodologies for human mobility and the emerging dynamics of our society. Bringing together novel ideas grounded in big data from various data mining and transportation science sources, this book is an essential tool for professionals, students, and researchers in the fields of transportation research and data mining.

Traffic Safety Culture

Definition, Foundation, and Application

Emerald Group Publishing This book provides traffic safety researchers and practitioners with an international and multi-disciplinary compendium of theoretical and methodological concepts relevant to the research and application of Traffic Safety Culture aiming towards a vision of zero traffic fatalities.

Environmental Policy and Household Behaviour Sustainability and Everyday Life

Routledge Our behaviour in our own homes - our recycling habits, consumer choices and transport preferences - all have a huge impact on the environment locally and globally. Governments across the world are trying to formulate and implement policies to encourage and enforce more sustainable household actions. Yet so often these policies fail to have the desired effects because of a lack of understanding of the complex interplay of policy and individual behaviour. This book examines this interplay, looking at the role of values, attitudes and constraints in the links between policy and changing behaviour at the household level. The first part of the book explores the theoretical background looking at the politics of lifestyles and lifestyle change, policy legitimacy and barriers and facilitators for pro-environmental behaviour. The second part is made up of in-depth case studies from Sweden - one of the fore-running countries in this area - examining three main types of household behaviour: waste and recycling; consumption and labelling; and transportation choices. Within these case studies, the contributors examine what policy initiatives have and haven't worked and the role of values and constraints in those processes. This is the first inter-disciplinary, in-depth look at how environmental policy enters the private, domestic sphere. The theoretical insights and policy guidance the book offers will be vital in the drive to generate behaviour change at the household level and the move towards sustainable societies.

Driver Acceptance of New Technology Theory, Measurement and Optimisation

CRC Press Acceptance of new technology and systems by drivers is an important area of concern to governments, automotive manufacturers and equipment suppliers, especially technology that has significant potential to enhance safety. To be acceptable, new technology must be useful and satisfying to use. If not, drivers will not want to have it, in which case it will never achieve the intended safety benefit. Even if they have the technology, drivers may not use it if it is deemed unacceptable, or may not use it in the manner intended by the designer. At worst, they may seek to disable it. This book brings into a single edited volume the accumulating body of thinking and research on driver and operator acceptance of new technology. Bringing together contributions from international experts from around the world, the editors have shaped a book that covers the theory behind acceptance, how it can be measured and how it can be improved. Case studies are presented that provide data on driver acceptance of a wide range of new and emerging vehicle technology. Although driver acceptance is the central focus of this book, acceptance of new technology by operators in other domains, and across cultures, is also investigated. Similarly, perspectives are derived from domains such as human computer interaction, where user acceptance has long been regarded as a key driver of product success. This book comes at a critical time in the history of the modern motor vehicle, as the number of new technologies entering the modern vehicle cockpit rapidly escalates. The goal of this book is to inspire further research and development of new vehicle technology to optimise user acceptance of it; and, in doing so, to maximise its potential to be useful, satisfying to use and able to save human life.

The Psychology of Driving on Rural Roads Development and Testing of a Model

Springer Science & Business Media Rural roads constitute the most dangerous road category with regard to the number of fatal accidents. In order to increase traffic safety on rural roads it is necessary to take into account not only their inherent properties but also their effect on behaviour. Gert Weller develops a psychological model for driving on rural roads which is validated in three empirical steps: laboratory, simulator and driving experiments. His results provide insight into the possibilities of how driving behaviour on rural roads can be influenced and give practical guidance for the enhancement of rural road safety. The book is written for psychologists in the fields of traffic psychology and human factors research, traffic engineers, road planners as well as for political decision makers in traffic planning departments.

Designing Safe Road Systems A Human Factors Perspective

CRC Press Many books focus on individual differences and how those relate to traffic safety such as accident proneness, gender differences, age, alcohol, and the effects of drugs. Others focus on the safety effects regarding the vehicle such as airbags, anti-lock brakes, navigation systems, intelligent cruise control and other new gadgets coming to the vehicle. Even though these topics are undoubtedly important for traffic safety, this book takes a unique approach as it focuses solely on the road environment. Designing Safe Road Systems provides the background for those who want to know more about the effects of road design on driving behaviour. It uses a systems approach to allow a better understanding of why and in what circumstances drivers may commit errors. This understanding will ultimately lead to road systems that prevent (fatal) errors from occurring. The book contains an overview of the current models and theories about human performance and human behaviour in traffic that are relevant for all those involved in designing safe road systems. The central theme of this book is how design principles can reduce the probability of an error while driving. The authors demonstrate how knowledge of human factors helps a road authority to better understand how road users behave. They argue that in many cases the design of the environment can be further adjusted to human capabilities, and that safety should be considered a system property to be built into the road system.

Building Blocks for Sustainable Transport Obstacles, Trends, Solutions

Emerald Group Publishing This book argues that the issues surrounding sustainable transport constitute a new - post-modern - phase in transport policy and management. Achieving sustainable transport requires more than 'optimal' management of congestion and the effects on public health and the environment. Assessments of external effects, and their optimal levels, tend to be piecemeal, localized, and focused on a specific type of effect. Sustainability, on the other hand, is a comprehensive, forward-looking concept that encompasses the achievement of a state of society that is better overall; it requires a widened concept of welfare that includes environmental quality and social justice in both the short and long term. This book is organized into three sections, each discussing a major set of challenges to the transition to a sustainable transport system.

Traffic Safety and Human Behavior

Elsevier Describes the basic research procedures used in the area of driving behavior and highway safety.

Current Literature in Traffic and Transportation

Increasing Motorcycle Conspicuity

Design and Assessment of Interventions to Enhance Rider Safety

Ashgate Publishing, Ltd. It's a widely recognised trend that powered-two-wheelers (PTWs) use has been steadily increasing and is projected to increase further. While providing benefits to the community in the form of reduced traffic congestion and environmental benefits, the risks to PTW riders remain and visibility will always be a key issue. Increasing Motorcycle Conspicuity aims to illustrate how driving simulation, field studies and laboratory experiments can be used to improve rider safety through the design and evaluation of a range of safety measures. The book outlines the factors that contribute to PTW visibility and detection by car drivers, and presents case studies to illustrate how the various methods can be used to explore the contribution of these factors. The final chapter of the book highlights the utility of a simulation-based approach to improving PTW safety and discusses this method's future applications. The case studies collected within the volume cover phases of the design of conspicuity treatments and provide a broad spectrum of empirical strategies for assessing the interventions. The book is most directly relevant to researchers and applied scientists from the fields of traffic/transportation psychology and human factors, as well as to practitioners from the traffic safety sector.

Handbook of Applied Cognition

John Wiley & Sons Written by a team of leading international researchers under the guidance of Frank Durso, the second edition of the Handbook of Applied Cognition brings together the latest research into this challenging and important field, and is presented across thirty stimulating and accessible chapters. Stewarded by experienced editors from around the globe, the handbook has been fully updated with eleven new chapters covering materials that focus on the topics critical to understanding human mental functions in complex environments. It is an essential single-source reference for researchers, cognitive engineers and applied cognitive psychologists, as well as advanced students in the flourishing field of applied cognition.

Translating Psychological Research Into Practice

Springer Publishing Company Print+CourseSmart

Pricing in Road Transport

A Multi-disciplinary Perspective

Edward Elgar Publishing ... the book provides ample evidence of the various and often complex issues that arise in road pricing policies. New research is presented on topics mostly neglected in the past (such as the role of firms in road pricing, or new insights from dynamic network models). Tilmann Rave, *Journal of Regional Science* Transport pricing is high on the political agenda throughout the world, but as the authors illustrate, governments seeking to implement this often face challenging questions and significant barriers. The associated policy and research questions cannot always be addressed adequately from a mono-disciplinary perspective. This book shows how a multi-disciplinary approach may lead to new types of analysis and insights, contributing to a better understanding of the intricacies of transport pricing and eventually to a potentially more effective and acceptable design of such policies. The study addresses important policy and research themes such as the possible motives for introducing road transport pricing and potential conflicts between these motives, behavioural responses to transport pricing for households and firms, the modelling of transport pricing, and the acceptability of pricing. Studying road transport pricing from a multi-disciplinary perspective, this book will be of great interest to transport policymakers and advisors, transport academics and consultants and students in transport studies.

Who's Driving Electric Cars

Understanding Consumer Adoption and Use of Plug-in Electric Cars

Springer Nature This book offers a comprehensive yet accessible snapshot of the latest consumer research on the adoption and use of electric vehicles. It discusses the importance of developing a better understanding of consumer behavior in relation to electric vehicles, and the advantages that can be gained from the growing number of electric vehicle users, who can now be studied directly. In turn, it systematically analyzes the leading markets for electric vehicles in North America, Europe and Asia. Bringing together the experience and expertise of authoritative researchers and practicing professionals, the book shares a wide range of empirical data obtained at the national level and summarizes the general lessons learned. The last part of the book discusses policy-relevant insights, forecasts the future evolution of the field in terms of methods and data availability, and addresses several key questions that policymakers and other stakeholders are currently facing.

Prescription for Social Dilemmas

Psychology for Urban, Transportation, and Environmental Problems

Springer This book provides a theoretical, empirical, and pragmatic understanding of social dilemmas (SDs). A SD is a social situation where cooperation maximizing collective or social profit is different from defection maximizing individual profit. Problems arise when too many group members choose to pursue individual profit and immediate satisfaction rather than behave in the group's best long-term interests. The problems include an environmental problem and various types of urban, economic, and political problems. Most books treating SDs are not monographs but are proceedings or omnibus volumes written by different researchers. Few monographs have been published for SDs, but those few deal only with basic theories and empirical findings. This book, by contrast, is a monograph by a single author and provides complete coverage from basic theories in Part I to applied theories and pragmatic solutions for urban, transportation, and environmental problems in Parts II and III. Various types of strategies are proposed in this book to overcome the problems caused by SDs in various situations based on the basic theories of those dilemmas. The strategies are psychological and structural ones. The book includes theories, empirical evidence in experiments, and practical policies in the real world for these strategies. Thus, the work effectively provides a bridge between basic behavioral scientists, applied behavioral scientists, and practitioners. With this useful source, basic scientists will understand how to apply their scientific knowledge to the real world and also will encounter new scientific problems that should be solved scientifically. Applied researchers and specialists will become familiar with new solutions through basic research on SDs and will be made aware of new pragmatic problems that should be solved with a practical approach.

Green, Smart and Connected Transportation Systems

Proceedings of the 9th International Conference on Green Intelligent Transportation Systems and Safety

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

Engineering Psychology and Cognitive Ergonomics

Volume 1: Transportation Systems

Routledge This is the first of two edited volumes from an international group of researchers and specialists, which together comprise the edited proceedings of the First International Conference on Engineering Psychology and Cognitive Ergonomics, organized by Cranfield College of Aeronautics at Stratford-upon-Avon, England in October 1996. The applications areas include aerospace and other transportation, human-computer interaction, process control and training technology. Topics addressed include: the design of control and display systems; human perception, error, reliability, information processing, and human perception, error, reliability, information processing, and awareness, skill acquisition and retention; techniques for evaluating human-machine systems and the physiological correlates of performance. This volume covers Human Factors in transportation systems. Part One opens with a chapter by Chris Wickens on attentional issues in head-up displays; its concluding chapter by Peter Jona, pulls together the Human Factors issues in air traffic management from both the pilot's and the air traffic controller's perspectives. Part Two considers the ground-based aspects to air traffic control, while Part Three emphasizes the psychology of the individual. The opening chapter of Part Four uses lessons learned from aviation to avoid similar mistakes in road vehicles. The final part contains topics such as naval command and control, and automation in trains and armoured fighting vehicles.

The Practice of Spatial Analysis

Essays in memory of Professor Pavlos Kanaroglou

Springer This edited volume compiles a set of papers that present various applications of spatial analysis, both traditional and contemporary, on diverse subjects in a wide range of contexts. The volume is dedicated to the memory of the late Professor Pavlos Kanaroglou, McMaster University, Canada, who greatly contributed to scientific and applied research on spatial analysis. In his honor, the book offers a selection of various spatial analysis approaches to the study of contemporary urban transportation, land use, and air pollution issues. The first part of the book discusses selected general issues in spatial analysis; ontologies, agent-based modelling and accessibility analysis. The second part deals with urban transportation analysis and modelling issues; agent-based activity/travel microsimulation, bottleneck models, public transit use, freight transport and connected automated vehicles impact assessment. Part three focuses on integrated land use and transport analysis, discussing the land value impacts of public transport infrastructure, the role of transport provision on business evolution and commute distance considerations in urban relocation. The fourth part, on travel-related air pollution analysis, presents the development of a geo-information software for mapping Aerosol Optical Thickness in urban environments and the development of a neighborhood level, real time, internet-enabled, air pollution map in the Canadian urban context. This book will appeal to academics, researchers, graduate students, consultants, and practitioners working on topics related to spatial analysis, land use and transport analysis, planning and decision making, and air pollution studies.

Advances in Human Aspects of Road and Rail Transportation

CRC Press Human factors and ergonomics have made considerable contributions to the research, design, development, operation and analysis of transportation systems and their complementary infrastructure. This volume focuses on the causations of road accidents, the function and design of roads and signs, the design of automobiles, and the training of the driver. It covers accident analyses, air traffic control, control rooms, intelligent transportation systems, and new systems and technologies.

Civil and Environmental Engineering: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global Civil and environmental engineers work together to develop, build, and maintain the man-made and natural environments that make up the infrastructures and ecosystems in which we live and thrive. *Civil and Environmental Engineering: Concepts, Methodologies, Tools, and Applications* is a comprehensive multi-volume publication showcasing the best research on topics pertaining to road design, building maintenance and construction, transportation, earthquake engineering, waste and pollution management, and water resources management and engineering. Through its broad and extensive coverage on a variety of crucial concepts in the field of civil engineering, and its subfield of environmental engineering, this multi-volume work is an essential addition to the library collections of academic and government institutions and appropriately meets the research needs of engineers, environmental specialists, researchers, and graduate-level students.

New Transportation Research Progress

Nova Publishers This book deals with new research in the fields of passenger and freight transportation modes: policy analysis, formulation and evaluation; planning; interaction with the political, socioeconomic and physical environment; design, management and evaluation of transportation systems.

The Transport System and Transport Policy

An Introduction

Edward Elgar Publishing This very interesting book provides an excellent multi-disciplinary introduction into the functioning of transport systems and the interaction with their environments. Edited by Erik Verhoef, VU University Amsterdam, The Netherlands The editors of this important book have clearly identified that few writings on transport treat the transport system as a whole. Implicit in this is a need for a genuinely multidisciplinary approach. An impressive list of contributors ensures that the book draws on the latest research whilst providing new insights into some of the key challenges facing transport students and researchers, transport providers and policy makers. Edited by Roger Vickerman, University of Kent, UK Since ancient times transportation has brought our world together. But the need for connectivity and accessibility in a spatially differentiated world has prompted the emergence of very complex transportation systems. This book offers a fresh and operational contribution to a better understanding of the complexity and manageability of a mobile world, by addressing in a balanced way both conceptual and applied or policy aspects of modern transportation systems. Edited by Peter Nijkamp, Free University of Amsterdam, The Netherlands Transport impacts on people and businesses in many different ways, and presents some of the key problems that decision-makers need to address. This comprehensive textbook introduces the transport system in a holistic and multidisciplinary way, bringing together the myriad components of transport. This textbook is written for an international readership of undergraduate and postgraduate students in transport and related subjects, as well as for professionals and policy decision-makers across both public and private sectors. Key features include:

- Discussion of the importance of transport accessibility and the impacts of transport on the environment and safety
- Policy issues relating to all of the discussed issues and prescribed future options.
- Transport evaluation methods and modelling approaches.
- Examples to highlight the linkages between components of the transport system for example infrastructures, land-use, vehicle technologies and the relevance of these linkages for decision making.

Driver Behaviour and Training

Ashgate Publishing, Ltd. Research on driver behaviour has clearly demonstrated that the goals and motivations a driver brings to the driving task are important determinants for driver behaviour. The objective of the book, and of the conference on which it is based, is to describe and discuss recent advances in the study of driving behaviour and driver training. It bridges the gap between practitioners in road safety, and theoreticians investigating driving behaviour, from a number of different perspectives and related disciplines. The book is timely in its aim of defining new approaches to driver training methodology based on decades of empirical research on driver behaviour. The contributing road safety researchers and professionals consider the kinds of methods that are effective in teaching drivers the higher-level skills needed to be a safe competent driver. The readership includes road safety researchers from a variety of different academic backgrounds, senior practitioners in the field from regulatory authorities and professional driver training organisations such as the police service, and private and public sector personnel who are concerned with improving road safety.

Life-Oriented Behavioral Research for Urban Policy

Springer This book presents a life-oriented approach, which is an interdisciplinary methodology proposed for cross-sectoral urban policy decisions such as transport, health, and energy policies. Improving people's quality of life (QOL) is one of the common goals of various urban policies on the one hand, while QOL is closely linked with a variety of life choices on the other. The life-oriented approach argues that life choices in different domains (e.g., residence, neighborhood, health, education, work, family life, leisure and recreation, finance, and travel behavior) are not independent of one another, and ignorance of and inability to understand interdependent life choices may result in a failure of consensus building for policy decisions. The book provides evidence about behavioral interdependencies among life domains based on both extensive literature reviews and case studies covering a broad set of life choices. This work further illustrates interbehavioral analysis frameworks with respect to various life domains, along with a rich set of future research directions. This book deals with life choices in a relatively general way. Thus, it can serve not only as a reference for research, but also as a textbook for teaching and learning in varied behavior-related disciplines.