

Design Guidelines For Public Transport Facilities Uospace

This report documents and presents the research approach used in the development of the guidelines for the Public Transportation Facilities and Equipment Management System (PTMS). The research agency conducted a representative survey of stakeholders who are involved in developing a PTMS in various states, and combined this information with the latest advances in facilities management systems to develop a set of guidelines appropriate to states and transit agencies of all modes and scales. A step by step procedure for developing a PTMS is outlined in the guidelines, along with additional industry sources for measures and standards, and examples of analytical methods for evaluating the data collected.

This unique book explains how to think systematically about public transportation through the lens of physics models. The book includes aspects of system design, resource management, operations and control. It presents both, basic theories that reveal fundamental issues, and practical recipes that can be readily used for real-world applications. The principles conveyed in this book cover not only traditional transit modes such as subways, buses and taxis but also the newer mobility services that are being enabled by advances in telematics and robotics. Although the book is rigorous, it includes numerous exercises and a presentation style suitable for senior undergraduate or entry-level graduate students in engineering. The book can also serve as a reference for transportation professionals and researchers keen in this field.

This two-volume set LNCS 12212 and 12213 constitutes the refereed proceedings of the Second International Conference on HCI in Mobility, Transport, and Automotive Systems,

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MobiTAS 2020, held as part of the 22nd International Conference on Human-Computer Interaction, HCII 2020, in Copenhagen, Denmark, in July, 2020.* A total of 1439 full papers and 238 posters have been carefully reviewed and accepted for publication in HCII 2020. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. MobiTAS 2020 includes a total of 59 papers and they are organized in the following topical sections: Part I, Automated Driving and In-Vehicle Experience Design: UX topics in automated driving, and designing in-vehicle experiences. Part II, Driving Behavior, Urban and Smart Mobility: studies on driving behavior, and urban and smart mobility. *The conference was held virtually due to the COVID-19 pandemic.

TRB's Transit Cooperative Research Program (TCRP) Report 153: Guidelines for Providing Access to Public Transportation Stations is intended to aid in the planning, developing, and improving of access to high capacity commuter rail, heavy rail, light rail, bus rapid transit, and ferry stations. The report includes guidelines for arranging and integrating various station design elements.

"The Transit Street Design Guide sets a new vision for how cities can harness the immense potential of transit to create active and efficient streets in neighborhoods and downtowns alike. Building on the Urban Street Design Guide and Urban Bikeway Design Guide, the Transit Street Design Guide details how reliable public transportation depends on a commitment to transit at every level of design. Developed through a new peer network of NACTO members and transit agency partners, the Guide provides street transportation departments, transit operating agencies, leaders, and practitioners with the tools to actively prioritize transit on the

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street."--Site Web de NACTO.

The Global Street Design Guide is a timely resource that sets a global baseline for designing streets and public spaces and redefines the role of streets in a rapidly urbanizing world. The guide will broaden how to measure the success of urban streets to include: access, safety, mobility for all users, environmental quality, economic benefit, public health, and overall quality of life. The first-ever worldwide standards for designing city streets and prioritizing safety, pedestrians, transit, and sustainable mobility are presented in the guide. Participating experts from global cities have helped to develop the principles that organize the guide. The Global Street Design Guide builds off the successful tools and tactics defined in NACTO's Urban Street Design Guide and Urban Bikeway Design Guide while addressing a variety of street typologies and design elements found in various contexts around the world.

Punter (urban design and city and regional planning, Cardiff U., Wales) outlines the design initiatives and policies in Seattle, Portland, San Francisco, Irvine, and San Diego, all of which he finds to have had particularly interesting experiences that are relevant to practice in Britain and elsewhere. No index. Distributed in the US by ISBS.

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This document aims to provide guidance on the delivery of interchange facilities that will enable customers to move easily between services. Well-designed interchanges will be key assets in the delivery of the Auckland Regional Public Transport Plan (RPTP).

This publication calls all urban stakeholders to invest in child-responsive urban planning, recognizing that cities are not only drivers of prosperity, but also of inequity.

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Through 10 Children's Rights and Urban Planning principles, the handbook presents concepts, evidence, tools and promising practices to create thriving and equitable cities where children live in healthy, safe, inclusive, green and prosperous communities. By focusing on children, it provides guidance on the central role that urban planning should play in achieving the Sustainable Development Goals, from a global perspective to a local context.

Worldwide, cities and regions are affected by structural change and face comprehensive transformation processes, many of which are yet to reveal themselves. In this context, polycentric models for development have been internationally voiced. *Polycentric City Regions in Transformation: The Ruhr Agglomeration in International Perspective* discusses such models in a comparative manner and, in particular, focuses on the dynamics that shape and challenge cities and regions nowadays. The book compiles contributions from Germany, China, Canada, Portugal, Colombia, USA, Scotland, among others, which were presented in an international conference held at Essen Zollverein in June 2015.

The twenty-first century finds civilization heavily based in cities that have grown into large metropolitan areas. Many of these focal points of human activity face problems of economic inefficiency, environmental deterioration, and an unsatisfactory quality of life—problems that go far in determining whether a city is "livable." A large share of these problems stems from the inefficiencies and other impacts of urban transportation

systems. The era of projects aimed at maximizing vehicular travel is being replaced by the broader goal of achieving livable cities: economically efficient, socially sound, and environmentally friendly. This book explores the complex relationship between transportation and the character of cities and metropolitan regions. Vukan Vuchic applies his experience in urban transportation systems and policies to present a systematic review of transportation modes and their characteristics. *Transportation for Livable Cities* dispels the myths and emotional advocacies for or against freeways, rail transit, bicycles, and other modes of transportation. The author discusses the consequences of excessive automobile dependence and shows that the most livable cities worldwide have intermodal systems that balance highway and public transit modes while providing for pedestrians, bicyclists, and paratransit. Vuchic defines the policies necessary for achieving livable cities: the effective implementation of integrated intermodal transportation systems.

Explore the Design and Operation of Urban Transport Interchanges Transport planners throughout the world can implement a range of policies to influence travelers' behavior, and encourage a move to public transport to achieve urban sustainability and social inclusion. At the same time population growth and urban sprawl exert their own pressures. Quality, accessible and reliable public transport through intermodal trips provides a solution. More than 20% of current commuting trips in Europe are intermodal, and typically between 20% and 30% of trip time is spent in intermodal

transfer. Interchange stations are becoming important parts of city infrastructure where people spend time on social or economic activities. Includes Contributions from Numerous Experts in the Field CITY-HUBS: Sustainable and Efficient Urban Transport Interchanges focuses on urban transport interchanges from more than 20 European researchers demonstrates why transport interchanges are crucial for a seamless public transport system. It is based on a broad consultation process to stakeholders of 26 interchanges in 10 different countries, and on tailored surveys to travelers in five of them. It shows travelers how to reduce the negative aspects of transfer by improving information provision and by delivering convenient services and facilities. The book outlines the required steps from interchange planning to operation, and defines the functions, the design of the space for transfer, stay and services, and assesses the needs for different types of interchange. It introduces the evaluation of urban and economic impacts and the identification of users' perceptions to improve interchange efficiency. The most important factors from the user point of view are safety and security, transfer conditions, information, design, services and facilities, environmental quality and comfort. These define the efficiency of the interchange from two different perspectives: as a transport node and as a place. Packed with relevant data and offering step-by-step instruction, this book: Proposes innovative operating strategies for an intermodal services organization (i.e. innovative business model) Explores pilot and test case studies for defining interchanges good practice, and tests them in validation

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case studies Sets out urban planning guidelines for urban integration of a transport interchange As an advanced guide CITY-HUBs: Sustainable and Efficient Urban Transport Interchanges caters to transport operators, authorities, end-users' organizations and policy makers who are challenged to implement new urban interchanges or to upgrade them.

The Routledge Handbook of Public Transport is a reference work of chapters providing in-depth examination of the current issues and future developments facing public transport. Chapters in this book are dedicated to specific key topics, identifying the challenges therein and pointing to emerging areas of research and concern. The content is written by an international group of expert contributors and is enhanced through contributions from practitioners to deliver a broader perspective. The Handbook deals with public transport policy context, modal settings, public transport environment, public transport delivery issues, smart card data for planning and the future of public transport. This comprehensive reference work will be a vital source for academics, researchers and transport practitioners in public transport management, transport policy and transport planning.

Addresses the Challenges Facing Public Transport Policy Makers and Operators
Public Transit Planning and Operation: Modeling, Practice and Behavior, Second

Edition offers new solutions for delivering both better services and greater efficiency, solutions which have been developed and tested by the author in over thirty years of research work with mass transit policy makers and operators all over the world. It bridges the worlds of practice and research and academia, provides an overview and a critique of currently used operational planning methods, and furnishes innovative practical techniques and modeling. Improve Service Performance and Successfully Manage the Costs of Operation This new edition brings in new material on timetabling and vehicle scheduling with different vehicle sizes, new methods of designing transit route networks, analysis of transit coordination and connectivity, behavioral aspects of passengers including when making transfers, and innovative methods related to automation and optimization which can be used in real time to significantly improve service reliability.

Combines academic research with real-world project experience Focuses on issues encountered in practice Provides unique coverage of the field Public Transit Planning and Operation: Modeling, Practice and Behavior, Second Edition incorporates a series of themes and new ways of thinking about planning and operation. Bridging the gap between theory and application, this text outlines the factors affecting public-transport services, addresses common problems, and offers practical solutions for improvement.

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This publication sets out key principles and guidelines for making all transport modes and related infrastructure more accessible. In addition, it provides examples and illustrations of good practice from many different countries. Achieving Sustainable Urban Form represents a major advance in the sustainable development debate. It presents research which defines elements of sustainable urban form - density, size, configuration, detailed design and quality - from macro to micro scale. Case studies from Europe, the USA and Australia are used to illustrate good practice within the fields of planning, urban design and architecture.

Guidelines for enhancing suburban mobility: Overview and summary of findings -- Suburban transit services: The planning context -- Actions to modify and improve the overall suburban transit framework -- Circulators and shuttles -- Subscription buses and vanpools -- Summary: Lessons and conclusions -- Bibliography -- Appendix A: Classifying suburban environments.

The NACTO Urban Street Design Guide shows how streets of every size can be reimaged and reoriented to prioritize safe driving and transit, biking, walking, and public activity. Unlike older, more conservative engineering manuals, this design guide emphasizes the core principle that urban streets are public places and have a larger role to play in communities than solely being conduits for

traffic. The well-illustrated guide offers blueprints of street design from multiple perspectives, from the bird's eye view to granular details. Case studies from around the country clearly show how to implement best practices, as well as provide guidance for customizing design applications to a city's unique needs. Urban Street Design Guide outlines five goals and tenets of world-class street design:

- Streets are public spaces. Streets play a much larger role in the public life of cities and communities than just thoroughfares for traffic.
- Great streets are great for business. Well-designed streets generate higher revenues for businesses and higher values for homeowners.
- Design for safety. Traffic engineers can and should design streets where people walking, parking, shopping, bicycling, working, and driving can cross paths safely.
- Streets can be changed. Transportation engineers can work flexibly within the building envelope of a street. Many city streets were created in a different era and need to be reconfigured to meet new needs.
- Act now! Implement projects quickly using temporary materials to help inform public decision making. Elaborating on these fundamental principles, the guide offers substantive direction for cities seeking to improve street design to create more inclusive, multi-modal urban environments. It is an exceptional resource for redesigning streets to serve the needs of 21st century cities, whose residents and visitors demand a variety of transportation

options, safer streets, and vibrant community life.

Guidelines for Enhancing Suburban Mobility Using Public Transportation
Transportation Research Board

This book features a multidisciplinary focus on walking as a mode in the context of transportation, urban planning and health. Breaking down the silos, this book presents a multidisciplinary focus bringing together research from transport, public health and planning to show linkages and the variation in experience around the world.

This report represents the first of two documents examining strategies to encourage and enhance transit use in Texas and throughout the country. The second report entitled Examination of Policies and Programs Supporting Transit Use in Texas, identifies general approaches and implementation techniques to encourage greater use of all types of transit services. This report documents the results of a study examining design treatments that can enhance the comfort, convenience, and safety of transit facilities, and to improve pedestrian and transit interaction. The study identifies the human and environmental elements that should be considered in transit facility designs and provides examples of design features that can be incorporated into different types of transit facilities. The major focus is on transit facilities appropriate in small communities and rural areas in Texas. These include bus stops, passenger shelters, and bus stations and centers. Other facilities such as light rail transit (LRT) and commuter rail stations, park-and-ride lots, and intermodal facilities are briefly discussed. A six step

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process for planning and designing transit facilities is presented. The report also outlines other supporting policies and programs that can enhance the design of all types of transit facilities.

This book constitutes late breaking papers from the 22nd International Conference on Human-Computer Interaction, HCII 2020, which was held in July 2020. The conference was planned to take place in Copenhagen, Denmark, but had to change to a virtual conference mode due to the COVID-19 pandemic. From a total of 6326 submissions, a total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings before the conference took place. In addition, a total of 333 papers and 144 posters are included in the volumes of the proceedings published after the conference as “Late Breaking Work” (papers and posters). These contributions address the latest research and development efforts in the field and highlight the human aspects of design and use of computing systems. The 54 late breaking papers address topics such as Interaction, Knowledge and Social Media.

Public Places - Urban Spaces provides a comprehensive overview of the principles and theory of urban design. This new edition reviews the latest debates, practice and research, and includes expanded discussions on key areas such as sustainability, health and inclusion. Full colour illustrations help demonstrate the application of the concepts discussed in the text, and the clear structure and holistic approach to the subject makes it suitable for dipping into or reading cover to cover. The authors explain

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the catalysts of change and renewal, and explore the global and local contexts and processes within which urban design as 'place-making' occurs. The book presents six key dimensions of urban design theory and practice -the social, visual, functional, temporal, morphological and perceptual - and relates these to discussions of the market, regulatory processes and how urban design is communicated. This is a clear and accessible text that provides a comprehensive discussion of this complex subject. NACTO's Urban Bikeway Design Guide quickly emerged as the preeminent resource for designing safe, protected bikeways in cities across the United States. It has been completely re-designed with an even more accessible layout. The Guide offers updated graphic profiles for all of its bicycle facilities, a subsection on bicycle boulevard planning and design, and a survey of materials used for green color in bikeways. The Guide continues to build upon the fast-changing state of the practice at the local level. It responds to and accelerates innovative street design and practice around the nation. This is the only current and in print book covering the full field of transit systems and technology. Beginning with a history of transit and its role in urban development, the book proceeds to define relevant terms and concepts, and then present detailed coverage of all urban transit modes and the most efficient system designs for each. Including coverage of such integral subjects as travel time, vehicle propulsion, system integration, fully supported with equations and analytical methods, this book is the primary resource for students of transit as

well as those professionals who design and operate these key pieces of urban infrastructure.

Boston's public transportation network, the MBTA, is a "hub-and-spokes" system: rail lines radiate out to the suburbs from a few central downtown stations, and traveling between the "spokes" often requires taking multiple buses or traveling all the way inbound in order to transfer. Particularly on the bus and Commuter Rail systems, off-peak service is limited. For those who live in the suburbs and commute to the city during rush hour, this setup works relatively well. However, many women that depend on public transportation face unique difficulties.

Women are more likely to make care-related and household-sustaining trips such as grocery runs and dropping off and picking up children from school, to make multiple trips in a row (trip-chaining), and to feel unsafe on public transit.

Understanding the limitations that transit-reliant women face can help to build a more comprehensive public transit system that supports all types of trips and improves public transportation for everyone, following the theory of "designing from the margins." Using data from a survey I conducted of almost 200 women in the Boston area, I examine some of the issues and obstacles that these women face when using public transit, suggest some design guidelines for new transit infrastructure, and imagine how the MBTA could change to accommodate the

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travel patterns of the women surveyed.

This guide brings the reader information on the latest in good practice regarding improving transport accessibility for all users.

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