

Traffic Engineering Handbook 2009 6th Edition

Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the Bridge Engineering Handbook. This extensive collection highlights bridge engineering specimens from around the world, contains detailed information on bridge engineering, and thoroughly explains the concepts and practical applications surrounding the subject.

This is the first book to directly address the physics of urban sustainability and how urban sustainability may be modelled and optimised. Starting with an introduction to the importance and key aspects of the topic, it moves on to a detailed consideration of the urban climate and pedestrian comfort.

Comprehensive techniques for the modelling and optimisation of urban metabolism are then described, together with means for defining sustainability as the fitness function to be optimised. It ends with an eye to the future of sustainable urban design and the means available to urban designers and governors to help them to secure a more sustainable urban future. This book will be invaluable both in informing the next generation of urban planners, architects and engineers, and as a tool to current professionals that will directly contribute to the effectiveness of their work by allowing them to more successfully measure and model urban sustainability.

Sustainable Parking Management provides the latest research findings in the field, encouraging transport planners and policymakers to use parking policy as a tool for managing parking and transport systems. The book teaches up-to-date parking management techniques for selecting parking policies and understanding parking behavior when faced with policy interventions. It shows when to apply each policy, how to include user attitudes in policy definition, and how to model user behavior when refining parking policies. In addition, it stresses the need to reduce overall city driving and the need to allow users to choose the transport mode that best suits their needs. As the growth of cities and car dependency worldwide has led to parking problems resulting in increased traffic congestion, pollution, and overall urban chaos, this book creates a model to help deal with the fallout. Offers step-by-step procedures for defining sustainable parking policies Synthesizes the latest research into one source Links theoretical knowledge with hands-on best practices from around the world Includes learning aids, such as chapter openers, textboxes, end-of-chapter review questions, and a glossary

This book offers a timely snapshot of research and developments in the area of air traffic engineering and management. It covers mathematical, modeling, reliability and optimization methods applied for improving different stages of flight operations, including both aerodrome and terminal airspace operations. It analyses and highlights important legal and safety aspects, and discusses timely issues such as those concerned with Brexit and the use of unmanned aerial vehicles. Gathering selected papers presented at the 6th edition of the

International Scientific Conference on Air Traffic Engineering, ATE 2020, held in October 2020 in Warsaw, Poland, this book offers a timely and inspiring source of information for both researchers and professionals in the field of air traffic engineering and management.

The definitive transportation engineering resource--fully revised and updated The two-volume Handbook of Transportation Engineering, Second Edition offers practical, comprehensive coverage of the entire transportation engineering field. Featuring 18 new chapters and contributions from nearly 70 leading experts, this authoritative work discusses all types of transportation systems--freight, passenger, air, rail, road, marine, and pipeline--and provides problem-solving engineering, planning, and design tools and techniques with examples of successful applications. Volume II focuses on applications in automobile and non-automobile transportation, and on safety and environmental issues. VOLUME II COVERS: Traffic engineering analysis Traffic origin-destination estimation Traffic congestion Highway capacity Traffic control systems: freeway management and communications Traffic signals Highway sign visibility Transportation lighting Geometric design of streets and highways Intersection and interchange design Pavement engineering: flexible and rigid pavements Pavement testing and evaluation Bridge engineering Tunnel engineering Pedestrians Bicycle transportation Spectrum of automated guideway transit (AGT) and its applications Railway vehicle engineering Railway track design Improvement of railroad yard operations Modern aircraft design techniques Airport design Air traffic control systems design Ship design Pipeline engineering Traffic safety Transportation hazards Hazardous materials transportation Incident management Network security and survivability Optimization of emergency evacuation plans Transportation noise issues Air quality issues in transportation Transportation and climate change

Get a complete look into modern traffic engineering solutions Traffic Engineering Handbook, Seventh Edition is a newly revised text that builds upon the reputation as the go-to source of essential traffic engineering solutions that this book has maintained for the past 70 years. The updated content reflects changes in key industry standards, and shines a spotlight on the needs of all users, the design of context-sensitive roadways, and the development of more sustainable transportation solutions. Additionally, this resource features a new organizational structure that promotes a more functionally-driven, multimodal approach to planning, designing, and implementing transportation solutions. A branch of civil engineering, traffic engineering concerns the safe and efficient movement of people and goods along roadways. Traffic flow, road geometry, sidewalks, crosswalks, cycle facilities, shared lane markings, traffic signs, traffic lights, and more—all of these elements must be considered when designing public and private sector transportation solutions. Explore the fundamental concepts of traffic engineering as they relate to operation, design, and management Access updated content that reflects changes in key industry-leading resources, such as

the Highway Capacity Manual (HCM), Manual on Uniform Traffic Control Devices (MUTCD), AASHTO Policy on Geometric Design, Highway Safety Manual (HSM), and Americans with Disabilities Act Understand the current state of the traffic engineering field Leverage revised information that homes in on the key topics most relevant to traffic engineering in today's world, such as context-sensitive roadways and sustainable transportation solutions Traffic Engineering Handbook, Seventh Edition is an essential text for public and private sector transportation practitioners, transportation decision makers, public officials, and even upper-level undergraduate and graduate students who are studying transportation engineering.

This book on road traffic congestion in cities and suburbs describes congestion problems and shows how they can be relieved. The first part (Chapters 1 - 3) shows how congestion reflects transportation technologies and settlement patterns. The second part (Chapters 4 - 13) describes the causes, characteristics, and consequences of congestion. The third part (Chapters 14 - 23) presents various relief strategies - including supply adaptation and demand mitigation - for nonrecurring and recurring congestion. The last part (Chapter 24) gives general guidelines for congestion relief and provides a general outlook for the future. The book will be useful for a wide audience - including students, practitioners and researchers in a variety of professional endeavors: traffic engineers, transportation planners, public transport specialists, city planners, public administrators, and private enterprises that depend on transportation for their activities.

A multi-disciplinary approach to transportation planning fundamentals The Transportation Planning Handbook is a comprehensive, practice-oriented reference that presents the fundamental concepts of transportation planning alongside proven techniques. This new fourth edition is more strongly focused on serving the needs of all users, the role of safety in the planning process, and transportation planning in the context of societal concerns, including the development of more sustainable transportation solutions. The content structure has been redesigned with a new format that promotes a more functionally driven multimodal approach to planning, design, and implementation, including guidance toward the latest tools and technology. The material has been updated to reflect the latest changes to major transportation resources such as the HCM, MUTCD, HSM, and more, including the most current ADA accessibility regulations.

Transportation planning has historically followed the rational planning model of defining objectives, identifying problems, generating and evaluating alternatives, and developing plans. Planners are increasingly expected to adopt a more multi-disciplinary approach, especially in light of the rising importance of sustainability and environmental concerns. This book presents the fundamentals of transportation planning in a multidisciplinary context, giving readers a practical reference for day-to-day answers. Serve the needs of all users Incorporate safety into the planning process Examine the latest transportation planning

softwarepackages Get up to date on the latest standards, recommendations, and codes Developed by The Institute of Transportation Engineers, this book is the culmination of over seventy years of transportation planning solutions, fully updated to reflect the needs of a changing society. For a comprehensive guide with practical answers, The Transportation Planning Handbook is an essential reference.

"TRB's National Cooperative Highway Research Program (NCHRP) Report 745: Left-Turn Accommodations at Unsignalized Intersections presents guidance for the selection and design of left-turn accommodations at unsignalized intersections. The report includes 11 case studies of typical situations that illustrate the use of the guidance."--Publisher's description.

With the encroachment of the Internet into nearly all aspects of work and life, it seems as though information is everywhere. However, there is information and then there is correct, appropriate, and timely information. While we might love being able to turn to Wikipedia® for encyclopedia-like information or search Google® for the thousands of links on a topic, engineers need the best information, information that is evaluated, up-to-date, and complete. Accurate, vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award-winning first edition of Using the Engineering Literature used a roadmap analogy, we now need a three-dimensional analysis reflecting the complex and dynamic nature of research in the information age. Using the Engineering Literature, Second Edition provides a guide to the wide range of resources available in all fields of engineering. This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering. The information age has greatly impacted the way engineers find information. Engineers have an effect, directly and indirectly, on almost all aspects of our lives, and it is vital that they find the right information at the right time to create better products and processes. Comprehensive and up to date, with expert chapter authors, this book fills a gap in the literature, providing critical information in a user-friendly format.

Gain unique insights into all facets of today's traffic and highway engineering with the enhanced edition of Garber and Hoel's best-selling TRAFFIC AND HIGHWAY ENGINEERING, SI Edition, 5th Edition. This edition initially highlights the pivotal role that transportation plays in today's society. Readers examine employment opportunities that transportation creates, its historical impact and the influences of transportation on modern daily life. This comprehensive approach offers an accurate understanding of the field with emphasis on some of transportation's distinctive challenges. Later chapters focus on specific issues facing today's transportation engineers to prepare readers to overcome common obstacles in the field. Worked problems, diagrams and tables, reference materials and meaningful examples clearly demonstrate how to apply and build upon the transportation engineering principles presented. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The new edition of Garber and Hoel's best-selling TRAFFIC AND HIGHWAY ENGINEERING focuses on giving students insight into all facets of traffic and highway engineering. Students generally come to this course with little knowledge or understanding of the importance of transportation, much less of the extensive career

opportunities within the field. Transportation is an extremely broad field, and courses must either cover all transportation modes or focus on specifics. While many topics can be covered with a survey approach, this often lacks sufficient depth and students leave the course without a full understanding of any of the fields. This text focuses exclusively on traffic and highway engineering beginning with a discussion of the pivotal role transportation plays in our society, including employment opportunities, historical impact, and the impact of transportation on our daily lives. This approach gives students a sense of what the field is about as well as an opportunity to consider some of its challenges. Later chapters focus on specific issues facing transportation engineers. The text uses pedagogical tools such as worked problems, diagrams and tables, reference material, and realistic examples to demonstrate how the material is applied. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"This report completes and updates the first edition of NCHRP Report 600: Human Factors Guidelines for Road Systems (HFG), which was published previously in three collections. The HFG contains guidelines that provide human factors principles and findings for consideration by, and is a resource document for, highway designers, traffic engineers, and other safety practitioners."--Foreword.

Civil Engineering for GATE/PSUs exam contains exhaustive theory, past year questions and practice problems The book has been written as per the latest format as issued for latest GATE exam. The book covers Numerical Answer Type Questions which have been added in the GATE format. To the point but exhaustive theory covering each and every topic in the latest GATE syllabus.

"The Traffic Engineering Handbook is a comprehensive practice-oriented reference that presents the fundamental concepts of traffic engineering, commensurate with the state of the practice"--

- 'GATE Civil Engineering Guide 2020 with 10 Practice Sets - 6 in Book + 4 Online Tests - 7th edition' for GATE exam contains exhaustive theory, past year questions, practice problems and Mock Tests.
- Covers past 15 years questions.
- Exhaustive EXERCISE containing 100-150 questions in each chapter. In all contains around 5300 MCQs.
- Solutions provided for each question in detail.
- The book provides 10 Practice Sets - 6 in Book + 4 Online Tests designed exactly on the latest pattern of GATE exam.

" ... the 17th International Conference ... held ... in Pisa, Italy."--Pref.

TRB National Cooperative Highway Research Program (NCHRP) Report 731: Guidelines for Timing Yellow and All-Red Intervals at Signalized Intersections offers guidance for yellow change and all-red clearance intervals at signalized intersections. The guidelines provide a framework that can be easily applied by state and local transportation agencies.

Human Factors and Ergonomics have made a considerable contribution to the research, design, development, operation and analysis of transportation systems which includes road and rail vehicles and their complementary infrastructure, aviation and maritime transportation. This book presents recent advances in the Human Factors aspects of Transportation. These advances include accident analysis, automation of vehicles, comfort, distraction of drivers (understanding of distraction and how to avoid it), environmental concerns, in-vehicle systems design, intelligent transport systems,

methodological developments, new systems and technology, observational and case studies, safety, situation awareness, skill development and training, warnings and workload. This book brings together the most recent human factors work in the transportation domain, including empirical research, human performance and other types of modeling, analysis, and development. The issues facing engineers, scientists, and other practitioners of human factors in transportation research are becoming more challenging and more critical. The common theme across these sections is that they deal with the intersection of the human and the system. Moreover, many of the chapter topics cross section boundaries, for instance by focusing on function allocation in NextGen or on the safety benefits of a tower controller tool. This is in keeping with the systemic nature of the problems facing human factors experts in rail and road, aviation and maritime research— it is becoming increasingly important to view problems not as isolated issues that can be extracted from the system environment, but as embedded issues that can only be understood as a part of an overall system.

This book presents a number of guidelines that are particularly useful in the context of decisions related to system-approach-based modern traffic engineering for the development of transport networks. Including practical examples and describing decision-making support systems it provides valuable insights for those seeking solutions to contemporary transport system problems on a daily basis, such as professional working for local authorities involved in planning urban and regional traffic development strategies as well as representatives of business and industry directly involved in implementing traffic engineering solutions. The guidelines provided enable readers to address problems in a timely manner and simplify the choice of appropriate strategies (including those connected with the relation between pedestrians and vehicle traffic flows, IT development in freight transport, safety issues related to accidents in road tunnels, but also open areas, like roundabouts and crossings). Furthermore, since the book also examines new theoretical-model approaches (including the model of arrival time distribution forming in a dense vehicle flow, the methodological basis of modelling and optimization of transport processes in the interaction of railways and maritime transport, traffic flow surveys and measurements, transport behaviour patterns, human factors in traffic engineering, and road condition modelling), it also appeals to researches and scientists studying these problems. This book features selected papers submitted to and presented at the 16th Scientific and Technical Conference Transport Systems Theory and Practice organized by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology. The conference was held on 16–18 September 2019 in Katowice (Poland), more details at www.TSTP.polsl.pl.

Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the Bridge Engineering Handbook. This extensive collection provides detailed information on bridge engineering, and thoroughly explains the concepts and practical applications surrounding the subject, and also highlights bridges from around the world. Published

This book constitutes the refereed proceedings of the Second International Conference on Cloud Computing and Big Data, CloudCom-Asia 2015, held in Huangshan, China, in June 2015. The 29 full papers and two keynote speeches were carefully reviewed and selected from 106 submissions. The papers are organized in topical sections on cloud

architecture; applications; big data and social network; security and privacy.

"TRBs National Cooperative Highway Research Program (NCHRP) Report 737: Design Guidance for High-Speed to Low-Speed Transitions Zones for Rural Highways presents guidance for designing the transition from a high-speed rural highway to a lower-speed section, typically approaching a small town. The report includes a methodology for assessing these highway sections and a catalog of potential treatments for addressing problems."--Publisher's description.

Better urban transport systems are needed to achieve a healthier environment and as a result, a wide range of research has originated 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. To address the need to solve important pollution problems the papers included in this book focus on the relationship with urban transport. There is also a growing need for integration with telecommunications systems and IT applications in order to improve safety, security and efficiency. 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.

Research leading to the continuous improvement of traffic analysis techniques depends on the ongoing collection of data relating to driver behavior.

INTRODUCTION TO TRAFFIC ENGINEERING: A MANUAL FOR DATA COLLECTION AND ANALYSIS is meant to aid both the student of traffic engineering and the transportation professional in sound data collection and analysis methods. It presents step-by-step techniques for several traffic engineering topics. Each topic is introduced in a consistent manner, and data collection and analysis forms are provided for each study. Studies are organized to facilitate inclusion in a formal transportation engineering report. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"Speeding and red light running are significant problems for both highway safety and traffic violations. Both have a significantly large impact on fatal crashes; however, both of these behaviors can be greatly affected by enforcement.

Automated enforcement is a tool that can be utilized by states and local agencies to reduce the prevalence of excessive speeding and running red lights, as well as to improve roadway safety for all users. Although automated red light camera and speed camera enforcement systems have been used in other countries for more than 30 years, it has been only in the last 20 years that they have been used in the United States. Much can be learned from agencies that operate a successful automated enforcement program. Understanding what makes a program successful is essential so that other agencies can either improve their programs or start programs of their own. The goal of this research was to find out which automated enforcement programs have been successful and what contributed to their success, as well as which programs have been unsuccessful and to draw

lessons from their experiences. This was accomplished through a comprehensive assessment of automated speed and red light running enforcement activity in the United States and Canada, which led to the development of guidelines to assist agencies in implementing and operating successful automated enforcement programs. Over 350 jurisdictions with current or past automated enforcement programs were contacted by survey and phone as part of the assessment. In addition to the survey, an extensive literature review was conducted to determine the effect of the programs, cost effectiveness, and resource requirements, and to get the perspective of the public. Legislation from each of the 50 states was compiled and reviewed to summarize state-by-state legal requirements for initiating and operating automated speed and red light camera enforcement programs. Site visits were conducted for the following: City of Portland, Oregon; City of Virginia Beach, Virginia; and City of San Diego, California. Information from the City of Edmonton, Alberta, Canada, was obtained through correspondence and telephone discussions. These four cities were identified as having successful automated enforcement programs. A case study report was developed for each of these cities. The case studies provide information on the initiation of the program, enabling legislation, program structure, and program operation for each of the cities. In each city, program personnel were asked to identify elements that have contributed to the success of their program. Key elements included having a solid engineering foundation, employing a multidisciplinary approach, regular monitoring and evaluation, and ensuring that the entire program is to the public and the media."--Summary.

The Routledge Handbook of Transportation offers a current and comprehensive survey of transportation planning and engineering research. It provides a step-by-step introduction to research related to traffic engineering and control, transportation planning, and performance measurement and evaluation of transportation alternatives. The Handbook of Transportation demonstrates models and methods for predicting travel and freight demand, planning future transportation networks, and developing traffic control systems. Readers will learn how to use various engineering concepts and approaches to make future transportation safer, more efficient, and more sustainable. Edited by Dušan Teodorovi? and featuring 29 chapters from more than 50 leading global experts, with more than 200 illustrations, the Routledge Handbook of Transportation is designed as an invaluable resource for professionals and students in transportation planning and engineering.

"This report presents a user-friendly guidebook to support risk assessment, emergency response preparedness, resource allocation, and analyses of hazardous commodity flows across jurisdictions. The guidebook, which updates the U.S. Department of Transportation's "Guidance for Conducting Hazardous Materials Flow Surveys," is targeted at transportation planning operations staff at the local and regional levels, as well as local and regional personnel involved in hazardous materials training and emergency response. All modes of

transportation, all classes and divisions of hazardous materials, and the effects of seasonality on hazardous materials movements are discussed."--pub. desc.

Urban areas have been caught up in a turbulent process of transformation over the past 50 years and changes have been rapid, with issues such as mobility, nature, water management, energy use and public space featuring prominently.

In each Olympic year since 1988, the Faculty of Architecture at Delft University of Technology has held an international conference focusing on the connection between research and design, exploring the field of tension between science, technology and art.

This book presents the proceedings of the latest in this series of conferences: New Urban Configurations, held in Delft, the Netherlands, in October 2012 in collaboration with the European Association for Architectural Education (EAAE) and the International Seminar on Urban Form (ISUF). This edition of the conference discussed the role and critical potential of the architectural project in the transformation process of cities and territories that leads to new urban configurations.

The publication contains all 140 accepted papers and a selection of the keynote lectures presented at the conference. The papers have been grouped into five main themes: innovation in building typology; infrastructure and the city; complex urban projects; green spaces, and delta urbanism. Four of these major topics are further divided into several subtopics.

This book will be of interest to everyone involved in designing, building, thinking about as well as managing the urban landscape and territory.

The first and only comprehensive guide to best practices in winter road operations

Winter maintenance operations are essential to ensure the safety, mobility, and productivity of transportation systems, especially in cold-weather climates, and responsible agencies are continually challenged to provide a high level of service in a fiscally and environmentally responsible manner. Sustainable Winter Road Operations bridges the knowledge gaps, providing the first up-to-date, authoritative, single-source overview and guide to best practices in winter road operations that considers the triple bottom line of sustainability. With contributions from experts in the field from around the world, this book takes a holistic approach to the subject. The authors address the many negative impacts on regional economies and the environment of poorly planned and inadequate winter road operations, and they make a strong case for the myriad benefits of environmentally sustainable concepts and practices. Best practice applications of materials, processes, equipment, and associated technologies and how they can improve the effectiveness and efficiency of winter operations, optimize materials usage, and minimize cost, corrosion, and environmental impacts are all covered in depth. Provides the first up-to-date, authoritative and comprehensive overview of best practices in sustainable winter road operations currently in use around the world Covers materials, processes, equipment, and associated technologies for sustainable winter road operations Brings together contributions by an

international all-star team of experts with extensive experience in designing, implementing, and managing sustainable winter road operations. Designed to bring professionals involved in transportation and highway maintenance and control up to speed with current best practice. Sustainable Winter Road Operations is essential reading for maintenance professionals dealing with snow and ice control operations on highways, motorways and local roads. It is a valuable source of information and guidance for decision makers, researchers, and engineers in transportation engineering involved in transportation and highway maintenance. And it is an ideal textbook for advanced-level courses in transportation engineering.

Over half of the global population now lives in cities. This ongoing urbanisation is making it increasingly important to adequately manage urban systems and preserve urban environments. This book is the outcome of the 11th Urban Environment Symposium (UES) held on 16-19 September 2012 in Karlsruhe, Germany. The UES aims at providing a forum on the sciences and practices needed to promote a sustainable future in urban environments. Papers by leading experts are presented in sections on Urban Management and Spatial Planning, Green Cities and Urban Ecosystems, Urban Planning and Development, Air Quality and Noise, Urban Climate Change and Adaptation, and Contamination of Urban Waters and its Effects.

For a one/two-semester undergraduate survey, and/or for graduate courses on Traffic Engineering, Highway Capacity Analysis, and Traffic Control and Operations. Presents coverage of traffic engineering. It covers all modern topics in traffic engineering, including design, construction, operation, maintenance, and system optimization.

TRB' National Cooperative Highway Research Program (NCHRP) Report 674: Crossing Solutions at Roundabouts and Channelized Turn Lanes for Pedestrians with Vision Disabilities explores information related to establishing safe crossings at roundabouts and channelized turn lanes for pedestrians with vision disabilities. Appendices B through N to NCHRP Report 674 were published as NCHRP Web-Only Document 160.

These twelve previously unpublished essays present innovative and practical ideas for addressing the harmful effects of sprawl. Sprawl is not only an ongoing focus of specialized magazines like Dwell; indeed, Time magazine has cited "recycling the suburbs" as the second of "Ten Ideas Changing the World Right Now." While most conversations on sprawl tend to focus on its restriction, this book presents an overview of current thinking on ways to fix, repair, and retrofit existing sprawl. Chapters by planners, geographers, designers, and architects present research grounded in diverse locales including Phoenix, Arizona; Seattle, Washington; Dublin, Ohio; and the Atlanta, Georgia, and Washington, D.C. metro areas. The authors address head-on the most controversial aspects of sprawl--issues of power and control, justice and equity, and American attitudes about regulating private development. But they also put these issues in practical

contexts, bringing in examples of redesign that are already occurring around the country, including the retrofitting of corridors and the repurposing of cul-de-sacs. Whether fixing sprawl requires a "cultural shift" in thinking or a "coordinated effort" by local government, these essays testify that a combination of forethought and creative thinking will be needed.

This book contains the papers presented at the nineteenth annual International Conference on Urban Transport and the Environment. The papers cover research on how to minimise ecological and environmental impacts from urban transportation systems, make them sustainable, and use them to improve the socio-economic fabric of the city. Papers also address the concerns about the safety, security and efficiency of the systems. Topics covered include: Urban transport planning and Management; Transportation demand analysis; Traffic integration and control; Intelligent transport systems; Transport modelling and simulation; Land use and transport integration; Public transport systems; Environmental and ecological aspects; Air and noise pollution; Safety and security; Energy and transport fuels; Economic and social impact; and Advanced transport systems.

This book presents 57 peer-reviewed papers from the 12th Conference on Traffic and Granular Flow (TGF) held in Washington, DC, in July 2017. It offers a unique synthesis of the latest scientific findings made by researchers from different countries, institutions and disciplines. The research fields covered range from physics, computer science and engineering and they may be all grouped under the topic of "Traffic and Granular Flow". The main theme of the Conference was: "From Molecular Interactions to Internet of Things and Smart Cities: The Role of Technology in the Understanding and the Evolution of Particle Dynamics".

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