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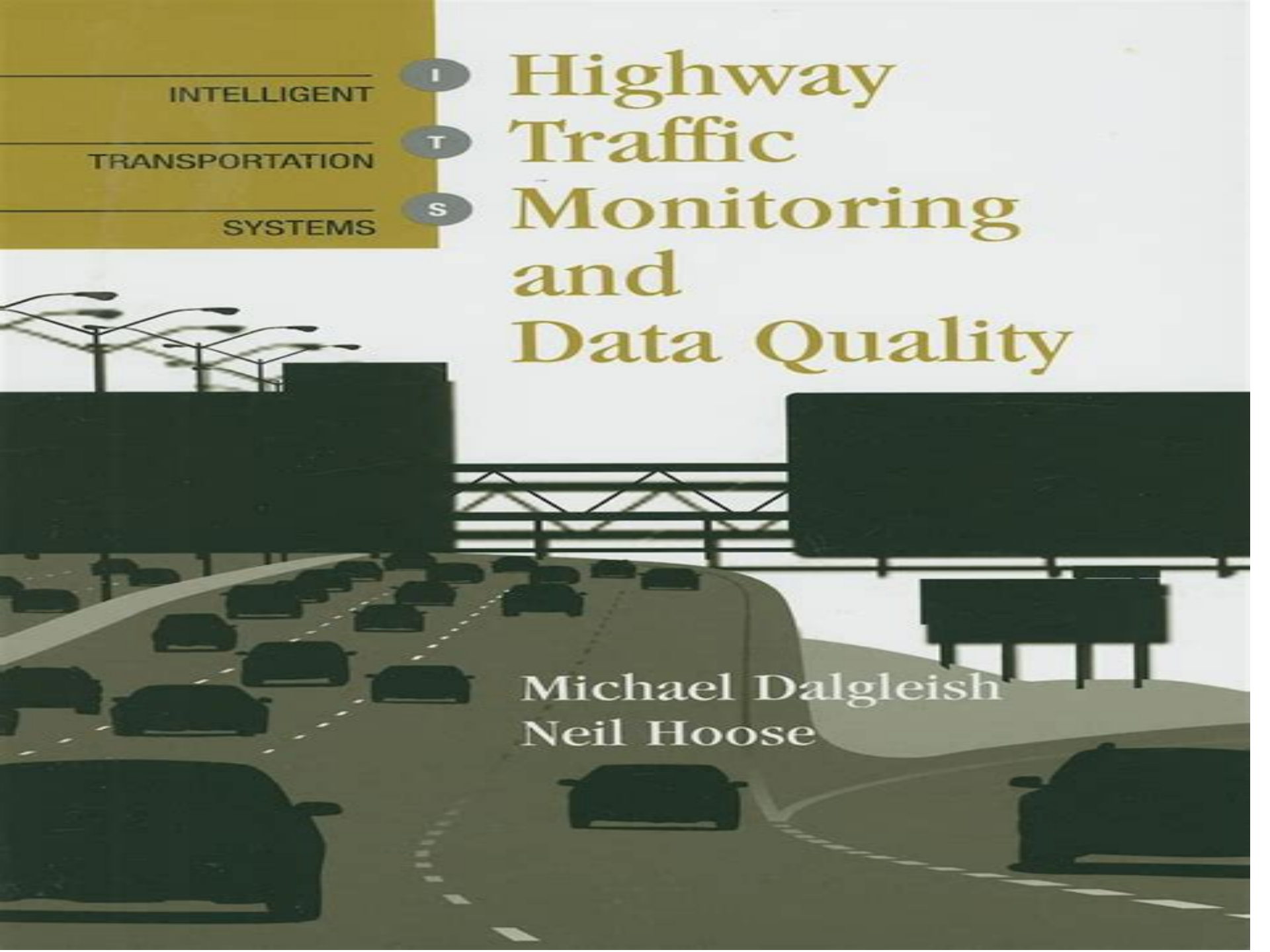
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# Highway Traffic Monitoring and Data Quality

Michael Dalglish  
Neil Hoose



# Highway Traffic Monitoring And Data Quality Artech House Intelligent Transportation Systems Library

**Ana L.C. Bazzan, Franziska Klügl**



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Highway Traffic Monitoring and Data Quality Michael Dalglish, 2008 This unique resource gives you a hands on understanding of the latest sensors processors and communication links for everything from vehicle counts to urban congestion measurement Moreover you learn statistical techniques for quantifying data accuracy and reducing uncertainty in both current system state assessments and future system state forecasts **Traffic Engineering & Control** ,1999

**Modern Transport Telematics** Jerzy Mikulski, 2011-10-14 This book constitutes the proceedings of the 11th International Conference on Transport Systems Telematics TST 2011 held in Katowice Ustron Poland in October 2011 The 47 papers included in this volume were carefully reviewed and selected for inclusion in this book Transport telematics systems are information technologies that are used in the field of transport including infrastructure vehicles and users Intelligent transport systems are advanced applications that are to provide innovative services for the various modes of transport and traffic management Also they should enable users to be better informed and make safer more coordinated and smarter use of transport networks Telematic services integrate telecommunications electronics and information technology in transport engineering in order to plan design operate maintain and manage transport systems **Whitaker's Books in Print** ,1998

ITS Sensors and Architectures for Traffic Management and Connected Vehicles Lawrence A. Klein, 2018 Intelligent transportation systems supported by data gathering sensors and vehicle communications increase safety efficiency predictability of traffic flow and potentially air quality This book addresses the impact of automated and connected vehicles systems engineering and national ITS architectures in the US Europe Japan and elsewhere *Traffic Data Collection and its Standardization* Jaume Barceló, Masao Kuwahara, 2010-07-20 A nice night of October 2007 in Beijing during the XV World Conference on ITS a number of colleagues met informally for a dinner party that spontaneously became a vivid discussion on the importance of traffic data for all types of poses Researchers can hardly do any progress in modeling developing and testing theories without suitable data and what practitioners can do in real life is limited not only by technology but also by the availability of the required data Quite frequently the data and not the technologies are what determine how far we can go Any discussion about traffic data leads in a natural way to a discussion on the variety of traffic data sources formats levels of aggregation accuracies and so on Consequently we moved to talk on the initiative that Kuwahara had undertaken in his traffic laboratory at the University of Tokyo known as the International Traffic Data Base and thus smoothly but inexorably we came to agree that it would be convenient to organize a workshop to continue our discussion at a more formal level share our points of view with other colleagues listen what they had to say and if possible disseminate the findings in our professional and academic communities Mobility Data-Driven Urban Traffic Monitoring Zhidan Liu, Kaishun Wu, 2021-05-18 This book introduces the concepts of mobility data and data driven urban traffic monitoring A typical framework of mobility data based urban traffic monitoring is also presented and it describes the processes of mobility data collection data processing traffic

modelling and some practical issues of applying the models for urban traffic monitoring This book presents three novel mobility data driven urban traffic monitoring approaches First to attack the challenge of mobility data sparsity the authors propose a compressive sensing based urban traffic monitoring approach This solution mines the traffic correlation at the road network scale and exploits the compressive sensing theory to recover traffic conditions of the whole road network from sparse traffic samplings Second the authors have compared the traffic estimation performances between linear and nonlinear traffic correlation models and proposed a dynamical non linear traffic correlation modelling based urban traffic monitoring approach To address the challenge of involved huge computation overheads the approach adapts the traffic modelling and estimations tasks to Apache Spark a popular parallel computing framework Third in addition to mobility data collected by the public transit systems the authors present a crowdsensing based urban traffic monitoring approach The proposal exploits the lightweight mobility data collected from participatory bus riders to recover traffic statuses through careful data processing and analysis Last but not the least the book points out some future research directions which can further improve the accuracy and efficiency of mobility data driven urban traffic monitoring at large scale This book targets researchers computer scientists and engineers who are interested in the research areas of intelligent transportation systems ITS urban computing big data analytic and Internet of Things IoT Advanced level students studying these topics benefit from this book as well ITS Handbook 2000 PIARC Committee on Intelligent Transport,1999 Combining a comprehensive definition of Intelligent Transport Systems and a full review of experimental implementation of ITS in various countries around the world this new book is an excellent introduction to ITS concepts and implementation for transportation managers planners and designers everywhere as well as a valuable resource for ITS professionals Whether you re planning to convert existing roadway systems into the superhighway of tomorrow or you re charged with creating an entirely new roadway incorporating the best intelligent systems this is an essential guide that helps you understand what technologies are available and what kinds of success others have experienced with ITS already **High-tech Highways** Elizabeth Pinkston,1995 Avalia o do intelligent transportation systems its amplo programa de moderniza o do sistema de trafego e transportes dos estados unidos

*Road Traffic Modeling and Management* Fouzi Harrou,Abdelhafid Zeroual,Mohamad Mazen Hittawe,Ying Sun,2021-10-05 Road Traffic Modeling and Management Using Statistical Monitoring and Deep Learning provides a framework for understanding and enhancing road traffic monitoring and management The book examines commonly used traffic analysis methodologies as well the emerging methods that use deep learning methods Other sections discuss how to understand statistical models and machine learning algorithms and how to apply them to traffic modeling estimation forecasting and traffic congestion monitoring Providing both a theoretical framework along with practical technical solutions this book is ideal for researchers and practitioners who want to improve the performance of intelligent transportation systems Provides integrated up to date and complete coverage of the key components for intelligent transportation systems traffic modeling

forecasting estimation and monitoring Uses methods based on video and time series data for traffic modeling and forecasting Includes case studies key processes guidance and comparisons of different methodologies      *Data Analytics for Intelligent Transportation Systems* Mashrur Chowdhury,Amy Apon,Kakan Dey,2017-04-05 Data Analytics for Intelligent Transportation Systems provides in depth coverage of data enabled methods for analyzing intelligent transportation systems that includes detailed coverage of the tools needed to implement these methods using big data analytics and other computing techniques The book examines the major characteristics of connected transportation systems along with the fundamental concepts of how to analyze the data they produce It explores collecting archiving processing and distributing the data designing data infrastructures data management and delivery systems and the required hardware and software technologies Users will learn how to design effective data visualizations tactics on the planning process and how to evaluate alternative data analytics for different connected transportation applications along with key safety and environmental applications for both commercial and passenger vehicles data privacy and security issues and the role of social media data in traffic planning Includes case studies in each chapter that illustrate the application of concepts covered Presents extensive coverage of existing and forthcoming intelligent transportation systems and data analytics technologies Contains contributors from both leading academic and commercial researchers Explains how to design effective data visualizations tactics on the planning process and how to evaluate alternative data analytics for different connected transportation applications      **Data Sharing and Data Partnerships for Highways** Kevin E. Heanue,2000 This synthesis report will be of interest to DOT administrators supervisors and staff as well as to the consultants that work with them Metropolitan Planning Organization MPO regional and local agency staffs might also find it informative The synthesis was initiated in response to a recommendation made during the Highway Performance Monitoring System HPMS Reassessment which was undertaken by the FHWA in 1997 1998 to expand data sharing and partnering more widely among states MPOs and local governments It documents current arrangements among state DOTs MPOs and other local and regional agencies to partner in the collection and share in the use of HPMS data Key elements examined include institutional arrangements the use of data and data sharing cost and resource requirements technical capabilities barriers implementation processes and data quality and capability as well as successes failures and difficulties Case studies of successful state and MPO partnerships are included      *Introduction to Intelligent Systems in Traffic and Transportation* Ana L.C. Bazzan,Franziska Klügl,2014-05-01 Urban mobility is not only one of the pillars of modern economic systems but also a key issue in the quest for equality of opportunity once it can improve access to other services Currently however there are a number of negative issues related to traffic especially in mega cities such as economical issues cost of opportunity caused by delays environmental externalities related to emissions of pollutants and social traffic accidents Solutions to these issues are more and more closely tied to information and communication technology Indeed a search in the technical literature using the keyword urban traffic to filter out articles on data network

traffic retrieved the following number of articles as of December 3 2013 9 443 ACM Digital Library 26 054 Scopus and 1 730 000 Google Scholar Moreover articles listed in the ACM query relate to conferences as diverse as MobiCom CHI PADS and AAMAS This means that there is a big and diverse community of computer scientists and computer engineers who tackle research that is connected to the development of intelligent traffic and transportation systems It is also possible to see that this community is growing and that research projects are getting more and more interdisciplinary To foster the cooperation among the involved communities this book aims at giving a broad introduction into the basic but relevant concepts related to transportation systems targeting researchers and practitioners from computer science and information technology In addition the second part of the book gives a panorama of some of the most exciting and newest technologies originating in computer science and computer engineering that are now being employed in projects related to car to car communication interconnected vehicles car navigation platooning crowd sensing and sensor networks among others This material will also be of interest to engineers and researchers from the traffic and transportation community

*Traffic Data Collection and its Standardization* Jaume Barceló, Masao Kuwahara, 2010-06-21 A nice night of October 2007 in Beijing during the XV World Conference on ITS a number of colleagues met informally for a dinner party that spontaneously became a vivid discussion on the importance of traffic data for all types of purposes Researchers can hardly do any progress in modeling developing and testing theories without suitable data and what practitioners can do in real life is limited not only by technology but also by the availability of the required data Quite frequently the data and not the technologies are what determine how far we can go Any discussion about traffic data leads in a natural way to a discussion on the variety of traffic data sources formats levels of aggregation accuracies and so on Consequently we moved to talk on the initiative that Kuwahara had undertaken in his traffic laboratory at the University of Tokyo known as the International Traffic Data Base and thus smoothly but inexorably we came to agree that it would be convenient to organize a workshop to continue our discussion at a more formal level share our points of view with other colleagues listen what they had to say and if possible disseminate the findings in our professional and academic communities

**Advanced Vehicle/highway Systems and Urban Traffic Problems**, 1989 Modeling and Simulation of Intelligent Transportation Systems Wael A. Altabay, Mohammad Noori, Ahmed Silik, Marco Domaneschi, Weixing Hong, 2024-10-23 As transport networks become more congested there is a growing need to adopt policies that manage demand and make full use of existing assets Advances in information technology are now such that intelligent transportation systems ITS offer real potential to meet this challenge by monitoring current conditions predicting what might happen in the future and providing the means to manage transport proactively and on an area wide basis Modeling and Simulation of Intelligent Transportation Systems provides engineers professionals and researchers an intuitive appreciation for ITS theory related sensor technologies and other practical applications including traffic management safety design optimization and sustainability Provides the theory and practical applications of Intelligent Transport Theory which

will be helpful as highway construction recedes as a sustainable long term solution Includes several case studies that illustrate the concepts presented throughout      **Big Data Transportation Systems** Guanghui Zhao,Gusheng Zhu,2021-07-02 This book is designed as a popular science book on big data analytics in intelligent transportation systems It aims to provide an introduction to big data transportation starting from an overview on the development of big data transportation in various countries This is followed by a discussion on the blueprint strategies of big data transportation which include innovative models planning transportation logistics and application case studies Finally the book discusses applications of big data transportation platforms      Traffic Management and Control in Intelligent Vehicle Highway Systems Lakshmi Dhevi Baskar,2009      **Incident Detection Optimization and Data Quality Control** César Augusto Quiroga,Khaled Hamad,Eun Sug Park,2005      **Smart Highways: Challenges Facing DOT's Intelligent Vehicle Highway Systems Program** Barry Thomas Hill,1994

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