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WHOLE SYSTEM DESIGN

AN INTEGRATED APPROACH TO SUSTAINABLE ENGINEERING

Earthscan Whole System Design is increasingly being seen as one of the most cost-effective ways to both increase the productivity and reduce the negative environmental impacts of an engineered system. A focus on design is critical as the output from this stage of the project locks in most of the economic and environmental performance of the designed system throughout its life which can span from a few years to many decades. Indeed it is now widely acknowledged that all designers - particularly engineers architects and industrial designers - need to be able to understand and implement a whole system design approach. This book provides a clear design methodology based on leading efforts in the field and is supported by worked examples that demonstrate how advances in energy materials and water productivity can be achieved through applying an integrated approach to sustainable engineering. Chapters 1-5 outline the approach and explain how it can be implemented to enhance the established Systems Engineering framework. Chapters 6-10 demonstrate through detailed worked examples the application of the approach to industrial pumping systems passenger vehicles electronics and computer systems temperature control of buildings and domestic water systems. Published with The Natural Edge Project the World Federation of Engineering Organizations UNESCO and the Australian Government.

ENVIRONMENTAL ENGINEERING IV

CRC Press Environmental engineering has a leading role in the elimination of ecological threats, and deals, in brief, with securing technically the conditions which create a safe environment for mankind to live in. Due to its interdisciplinary character it can deal with a wide range of technical and technological problems. Since environmental engineering use

TRAFFIC MANAGEMENT AND TRAFFIC ENGINEERING FOR THE FUTURE INTERNET

FIRST EURO-NF WORKSHOP, FITRAMEN 2008, PORTO, PORTUGAL, DECEMBER 11-12, 2008, REVISED SELECTED PAPERS

Springer Science & Business Media This post proceedings volume contains a selection of research contributions presented at FITraMEn 2008, held during December 11-12, 2008 in Porto, Portugal. The papers contained in this book provide a general view of the ongoing research on traffic management and traffic engineering in the Euro-NF Network of Excellence, and give a representative example of the problems currently investigated in this area, that spans topics such as bandwidth allocation and traffic control, statistical analysis, traffic engineering, and optical networks and video communications.

PROCEEDINGS OF THE 4TH INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING (AMMA 2018)

Springer This volume includes selected and reviewed papers from the 4th International Congress of Automotive and Transport Engineering, held in Cluj, Romania, in September 2018. Authors are experts from research, industry and universities coming from 14 countries worldwide. The papers are covering the latest developments in automotive vehicles and environment, advanced transport systems and road traffic, heavy and special vehicles, new materials, manufacturing technologies and logistics, accident research and analysis and innovative solutions for automotive vehicles. The conference is organized by SIAR (Society of Automotive Engineers from Romania) in cooperation with FISITA.

INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING AND MANAGEMENT SCIENCE-2013

DEStech Publications, Inc ICIEMS 2013 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Industrial Engineering and Management Science. This conference provides opportunities for the delegates to exchange new ideas and experiences face to face, to establish business or research relations and to find global partners for future collaboration.

PRINCIPLES OF HIGHWAY ENGINEERING AND TRAFFIC ANALYSIS

John Wiley & Sons Highly regarded for its clarity and depth of coverage, the bestselling Principles of Highway Engineering and Traffic Analysis provides a comprehensive introduction to the highway-related problems civil engineers encounter every day. Emphasizing practical applications and up-to-date methods, this book prepares students for real-world practice while building the essential knowledge base required of a transportation professional. In-depth coverage of highway engineering and traffic analysis, road vehicle performance, traffic flow and highway capacity, pavement design, travel demand, traffic forecasting, and other essential topics equips students with the understanding they need to analyze and solve the problems facing America's highway system. This new Seventh Edition features a new e-book format that allows for enhanced pedagogy, with instant access to solutions for selected problems. Coverage focuses exclusively on highway transportation to reflect the dominance of U.S. highway travel and the resulting employment opportunities, while the depth and scope of coverage is designed to prepare students for success on standardized civil engineering exams.

PUBLIC ROADS

AN INTRODUCTION TO THE USE OF PORTABLE VEHICULAR SIGNALS

SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS

CODE OF PRACTICE FOR ENGLAND

Editions de l'Atelier This code of practice sets out the statutory requirements for materials, performance and standards of workmanship for use in association with street works by utilities and other undertakers with apparatus in the street. It applies in England only and comes into effect on 1 October 2010, when it replaces the 2nd edition (2002, ISBN 9780115525384).

ROADWAY SAFETY TOOLS FOR LOCAL AGENCIES

Transportation Research Board

TRAFFIC PLANNING AND ENGINEERING

PERGAMON INTERNATIONAL LIBRARY OF SCIENCE, TECHNOLOGY, ENGINEERING AND SOCIAL STUDIES

Elsevier Traffic Planning and Engineering, Second Edition takes into account underlying trends in traffic planning and engineering. In this edition, Chapter 3 has been remodeled, focusing on the techniques on conducting surveys and their subsequent analysis. Further emphasis has also been provided on environmental management and the central role of computers in all aspects of traffic planning and engineering. The topics discussed in this book include administration and planning in traffic engineering; traffic studies; traffic surveys and analysis; parking; traffic and environmental management; and road user, the vehicle and the road. The traffic stream and capacity; traffic control systems; street lighting, traffic signs, and carriageway markings; and accidents and road safety are also deliberated in this text. This publication is valuable to traffic engineering students, as well as individuals researching on techniques to achieve the safe and efficient movement of people and goods on roadways.

TRANSPORT PLANNING AND TRAFFIC ENGINEERING

CRC Press 'Transport Planning and Traffic Engineering' is a comprehensive textbook on the relevant principles and practice. It includes sections on transport policy and planning, traffic surveys and accident investigation, road design for capacity and safety, and traffic management. Clearly written and illustrated, the book is ideal reading for students of t

ADVANCES IN COMPUTER SCIENCE AND ENGINEERING

13TH INTERNATIONAL CSI COMPUTER CONFERENCE, CSICC 2008 KISH ISLAND, IRAN, MARCH 9-11, 2008 REVISED SELECTED PAPERS

Springer Science & Business Media It is our pleasure to welcome you to the proceedings of the 13th International C-puter Society of Iran Computer Conference (CSICC-2008). The conference has been held annually since 1995, except for 1998, when it transitioned from a year-end to first-quarter schedule. It has been moving in the direction of greater selectivity (see Fig.1) and broader international participation. Holding it in Kish Island this year represents an effort to further facilitate and encourage international contributions. We feel privileged to participate in further advancing this strong technical tradition. 60 50 40 30 20 10 0 Dec 23-26 Dec 23-25 Dec 23-25 Jan 26-28 Mar 8-10 Feb 21-23 Feb 28-30 Feb 23-26 Feb 16-19 Feb 15-18 Jan 24-26 Feb 20-22 Mar 9-11 1995 1996 1997 Iran 1999 2000 2001 U of 2002 Iran 2003 2004 2005 Iran 2006 IPM, 2007 2008 Sharif U Amirkabir U of Sharif U Shahid Isfahan, Telecom Ferdowsi Sharif U Telecom Tehran Shahid Sharif U of Tech, U of Tech, Sci/Tech, of Tech, Beheshti Isfahan Res. U, of Tech, Res. Beheshti of Tech, Tehran Tehran Tehran Tehran U, Tehran Center Mashhad Tehran Center U, Tehran Kish Island Dates, Year, Venue

MODELLING TRANSPORT

John Wiley & Sons Already the market leader in the field, Modelling Transport has become still more indispensable following a thorough and detailed update. Enhancements include two entirely new chapters on modelling for private sector projects and on activity-based modelling; a new section on dynamic assignment and micro-simulation; and sizeable updates to sections on disaggregate modelling and stated preference design and analysis. It also tackles topical issues such as valuation of externalities and the role of GPS in travel time surveys. Providing unrivalled depth and breadth of coverage, each topic is approached as a modelling exercise with discussion of the roles of theory, data, model specification, estimation, validation and application. The authors present the state of the art and its practical application in a pedagogic manner, easily understandable to both students and practitioners. Follows on from the highly successful third edition universally acknowledged as the leading text on transport modelling techniques and applications Includes two new chapters on modelling for private sector projects and activity based modeling, and numerous updates to existing chapters Incorporates treatment of recent issues and concerns like risk analysis and the dynamic interaction between land use and transport Provides comprehensive and rigorous information and guidance, enabling readers to make practical use of every available technique Relates the topics to new external factors and technologies such as global warming, valuation of externalities and global positioning systems (GPS).

COMPUTATIONAL MODELS OF RISKS TO INFRASTRUCTURE

IOS Press This publication deals with modeling of infrastructure risk. The objective, exploring different methodologies and related applications, recognized four major topics: Complex Models; Simulation Models; Distributional Models; and Deterministic Models. Focus is on the following issues: the state-of-the-art and practice, gaps between the arts and practices, ways to bridge the gaps, and future research directions. In the first chapter, papers can be found on Computational Nonlinear Models of Risk Assessment, Risk-Based Evaluation of Safety and Security Programs in Critical Infrastructure and Risk Assessment of Modes of Terrorist Attack. One of the papers in the chapter on Simulation Models is on Computational Models for the Simulation of Evacuations following Infrastructure Failures and Terrorist Incidents. Bayesian Belief Nets for Discrete and Continuous Variables and Development of Risk Based Software for Analysis of Power Engineering Accidents are two titles of papers in the third chapter of the book on Distributional Models. Finally, the fourth chapter on Deterministic Models focuses on Environmental Risk Ranking and more.

MODERN TRAFFIC ENGINEERING IN THE SYSTEM APPROACH TO THE DEVELOPMENT OF TRAFFIC NETWORKS

16TH SCIENTIFIC AND TECHNICAL CONFERENCE "TRANSPORT SYSTEMS. THEORY AND PRACTICE 2019" SELECTED PAPERS

Springer Nature 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.

GREEN CONNECTED AUTOMATED TRANSPORTATION AND SAFETY

PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON GREEN INTELLIGENT TRANSPORTATION SYSTEMS AND SAFETY

Springer Nature These proceedings gather selected papers from the 11th International Conference on Green Intelligent Transportation Systems and Safety, held in Beijing, China on October 17-19, 2020. The book features 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. The readers will be able to find out the Advances in Green Intelligent Transportation System and Safety.

PROCEEDINGS OF THE 2012 INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY AND SOFTWARE ENGINEERING

INFORMATION TECHNOLOGY

Springer Science & Business Media Proceedings of the 2012 International Conference on Information Technology and Software Engineering presents selected articles from this major event, which was held in Beijing, December 8-10, 2012. This book presents the latest research trends, methods and experimental results in the fields of information technology and software engineering, covering various state-of-the-art research theories and approaches. The subjects range from intelligent computing to information processing, software engineering, Web, unified modeling language (UML), multimedia, communication technologies, system identification, graphics and visualizing, etc. The proceedings provide a major interdisciplinary forum for researchers and engineers to present the most innovative studies and advances, which can serve as an excellent reference work for researchers and graduate students working on information technology and software engineering. Prof. Wei Lu, Dr. Guoqiang Cai, Prof. Weibin Liu and Dr. Weiwei Xing all work at Beijing Jiaotong University.

INFORMATION TECHNOLOGY APPLICATIONS IN INDUSTRY, COMPUTER ENGINEERING AND MATERIALS SCIENCE

Trans Tech Publications Ltd Collection of selected, peer reviewed papers from the 2013 3rd International Conference on Materials Science and Information Technology (MSIT 2013), September 14-15, 2013, Nanjing, Jiangsu, China. The 958 papers are grouped as follows: Chapter 1: Materials Science and Engineering; Chapter 2: Mechatronics, Control, Testing, Measurement, Instrumentation, Detection and Monitoring Technologies; Chapter 3: Communication, Computer Engineering and Information Technologies; Chapter 4: Data Processing and Applied Computational Methods and Algorithms; Chapter 5: Power Systems and Electronics, Microelectronics and Embedded, Integrated Systems, Electric Applications; Chapter 6: Manufacturing, Industry Development and Automation.

ENGINEERING FOR HUMAN-COMPUTER INTERACTION

IFIP TC2/TC13 WG2.7/WG13.4 SEVENTH WORKING CONFERENCE ON ENGINEERING FOR HUMAN-COMPUTER INTERACTION SEPTEMBER 14-18, 1998, HERAKLION, CRETE, GREECE

Springer Science & Business Media The aim of IFIP Working Group 2.7 (13.4) for User Interface Engineering is to investigate the nature, concepts and construction of user interfaces for software systems. The group's scope is: • developing user interfaces based on knowledge of system and user behaviour; • developing frameworks for reasoning about interactive systems; and • developing engineering models for user interfaces. Every three years, the group holds a "working conference" on these issues. The conference mixes elements of a regular conference and a workshop. As in a regular conference, the papers describe relatively mature work and are thoroughly reviewed. As in a workshop, the audience is kept small, to enable in-depth discussions. The conference is held over 5-days (instead of the usual 3-days) to allow such discussions. Each paper is discussed after it is presented. A transcript of the discussion is found at the end of each paper in these proceedings, giving important insights about the paper. Each session was assigned a "notes taker", whose responsibility was to collect/transcribe the questions and answers during the session. After the conference, the original transcripts were distributed (via the Web) to the attendees and modifications that clarified the discussions were accepted.

SITE RELIABILITY ENGINEERING

HOW GOOGLE RUNS PRODUCTION SYSTEMS

"O'Reilly Media, Inc." In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world.

TRAFFIC SAFETY AND HUMAN BEHAVIOR

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.

SUSTAINABLE RAIL TRANSPORT 4

INNOVATE RAIL RESEARCH AND EDUCATION

Springer Nature This book offers a timely collection of articles on innovative research and developments in the vast field of rail transport, including rail operations, management, economics, vehicles interior design and sustainable infrastructure. It addresses academics and professionals specializing in railway transport analysis, innovation, systems design and new technology. Continuing on the tradition of the previous volumes, the book reports on innovative solutions for energy saving, noise reduction and baggage handling. It elaborates on the implementation of digital technologies and discusses sustainable rail operations along transport corridors. The concept of hyperloop is also discussed as a possible transport mode of the future. All the contributions were selected through an internal competition and a double-blinded peer review process organized by the RailUniNet members

PRINCIPLES OF HIGHWAY ENGINEERING AND TRAFFIC ANALYSIS

John Wiley & Sons Incorporated Publisher Description

TRAFFIC AND PAVEMENT ENGINEERING

CRC Press Traffic and Pavement Engineering presents the latest engineering concepts, techniques, practices, principles, standard procedures, and models that are applied and used to design and evaluate traffic systems, road pavement structures, and alternative transportation systems to ultimately achieve greater safety, sustainability, efficiency, and cost-effectiveness. It provides in-depth coverage of the major areas of transportation engineering and includes a broad range of practical problems and solutions, related to theory, concepts, practice, and applications. Solutions for each problem follow step-by-step procedures that include the theory and the derivation of the formulas and computations where applicable. Additionally, numerical methods, linear algebraic methods, and least squares regression techniques are presented to assist in problem solving. Features: Presents coverage of major areas in transportation engineering: traffic engineering, and pavement materials, analysis, and design. Provides solutions to numerous practical problems in traffic and pavement engineering including terminology, theory, practice, computation, and design. Offers downloadable and user-friendly MS Excel spreadsheets as well as numerical methods and optimization tools and techniques. Includes several practical case studies throughout. Utilizes a unique approach in presenting the different topics of transportation engineering. Traffic and Pavement Engineering will help academics and professionals alike to find practical solutions across the broad spectrum of traffic and pavement engineering issues.

FUNDAMENTALS OF NETWORK FORENSICS

A RESEARCH PERSPECTIVE

Springer This timely text/reference presents a detailed introduction to the essential aspects of computer network forensics. The book considers not only how to uncover information hidden in email messages, web pages and web servers, but also what this reveals about the functioning of the Internet and its core protocols. This, in turn, enables the identification of shortcomings and highlights where improvements can be made for a more secure network. Topics and features: provides learning objectives in every chapter, and review questions throughout the book to test understanding; introduces the basic concepts of network process models, network forensics frameworks and network forensics tools; discusses various techniques for the acquisition of packets in a network forensics system, network forensics analysis, and attribution in network forensics; examines a range of advanced topics, including botnet, smartphone, and cloud forensics; reviews a number of freely available tools for performing forensic activities.

ARTIFICIAL INTELLIGENCE-BASED INTERNET OF THINGS SYSTEMS

Springer Nature The book discusses the evolution of future generation technologies through Internet of Things (IoT) in the scope of Artificial Intelligence (AI). The main focus of this volume is to bring all the related technologies in a single platform, so that undergraduate and postgraduate students, researchers, academicians, and industry people can easily understand the AI algorithms, machine learning algorithms, and learning analytics in IoT-enabled technologies. This book uses data and network engineering and intelligent decision support system-by-design principles to design a reliable AI-enabled IoT ecosystem and to implement cyber-physical pervasive infrastructure solutions. This book brings together some of the top IoT-enabled AI experts throughout the world who contribute their knowledge regarding different IoT-based technology aspects.

SYNTHESIS OF HIGHWAY PRACTICE

IMDC-IST 2021

PROCEEDINGS OF 2ND INTERNATIONAL MULTI-DISCIPLINARY CONFERENCE THEME: INTEGRATED SCIENCES AND TECHNOLOGIES, IMDC-IST 2021, 7-9 SEPTEMBER 2021, SAKARYA, TURKEY

European Alliance for Innovation This book contains the proceedings of the Second International Conference on Integrated Sciences and Technologies (IMDC-IST-2021). Where held on 7th-9th Sep 2021 in Sakarya, Turkey. This conference was organized by University of Bradford, UK and Southern Technical University, Iraq. The papers in this conference were collected in a proceedings book entitled: Proceedings of the second edition of the International Multi-Disciplinary Conference Theme: "Integrated Sciences and Technologies" (IMDC-IST-2021). The presentation of such a multi-discipline conference provides a lot of exciting insights and new understanding on recent issues in terms of Green Energy, Digital Health, Blended Learning, Big Data, Meta-material, Artificial-Intelligence powered applications, Cognitive Communications, Image Processing, Health Technologies, 5G Communications. Referring to the argument, this conference would serve as a valuable reference for future relevant research activities. The committee acknowledges that the success of this conference are closely intertwined by the contributions from various stakeholders. As being such, we would like to express our heartfelt appreciation to the keynote speakers, invited speakers, paper presenters, and participants for their enthusiastic support in joining the second edition of the International Multi-Disciplinary Conference Theme: "Integrated Sciences and Technologies" (IMDC-IST-2021). We are convinced that the contents of the study from various papers are not only encouraged productive discussion among presenters and participants but also motivate further research in the relevant subject. We appreciate for your enthusiasm to attend our conference and share your knowledge and experience. Your input was important in ensuring the success of our conference. Finally, we hope that this conference serves as a forum for learning in building togetherness and academic networks. Therefore, we expect to see you all at the next IMDC-IST.

EVALUATING ALTERNATIVE OPERATIONS STRATEGIES TO IMPROVE TRAVEL TIME RELIABILITY

Transportation Research Board This report from the second Strategic Highway Research Program (SHRP 2), which is administered by the Transportation Research Board of the National Academies, sets out requirements for travel time reliability within a performance-based planning process. The research includes an effort to determine the economic value of improvements in travel time reliability by applying options theory from the financial sector. The report includes two succinct tables that describe requirements for person and freight trips for reliable transport, as well as a forecast of the year 2030 under alternative assumptions that may influence travel time reliability.

ICCWS 2017 12TH INTERNATIONAL CONFERENCE ON CYBER WARFARE AND SECURITY

Academic Conferences and publishing limited

ICMLG 2017 5TH INTERNATIONAL CONFERENCE ON MANAGEMENT LEADERSHIP AND GOVERNANCE

Academic Conferences and publishing limited

OPERATIONAL AND INSTITUTIONAL AGREEMENTS THAT FACILITATE REGIONAL TRAFFIC SIGNAL OPERATIONS

Transportation Research Board

WIAPP 2003

THE THIRD IEEE WORKSHOP ON INTERNET APPLICATIONS : PROCEEDINGS : 23-24 JUNE, 2003, SAN JOSE, CALIFORNIA

Institute of Electrical & Electronics Engineers(IEEE)

DYNAMICS OF COUPLED STRUCTURES, VOLUME 4

PROCEEDINGS OF THE 34TH IMAC, A CONFERENCE AND EXPOSITION ON STRUCTURAL DYNAMICS 2016

Springer Dynamics of Coupled Structures, Volume 4. Proceedings of the 34th IMAC, A Conference and Exposition on Dynamics of Multiphysical Systems: From Active Materials to Vibroacoustics, 2016, the fourth volume of ten from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: • Experimental Dynamic Substructuring • Structural Coupling of Nonlinear Structures • Analytical/Numerical Modeling of Joints • Industrial Applications of Substructuring • Source Identification & Transfer Path Analysis • Human Induced Vibrations • Damping & Friction

ADVANCES IN SYSTEMS, COMPUTING SCIENCES AND SOFTWARE ENGINEERING

PROCEEDINGS OF SCSS 2005

Springer Science & Business Media Advances in Systems, Computing Sciences and Software Engineering This book includes the proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS'05). The proceedings are a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of computer science, software engineering, computer engineering, systems sciences and engineering, information technology, parallel and distributed computing and web-based programming. SCSS'05 was part of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE'05) (www.cisse2005.org), the World's first Engineering/Computing and Systems Research E-Conference. CISSE'05 was the first high-caliber Research Conference in the world to be completely conducted online in real-time via the internet. CISSE'05 received 255 research paper submissions and the final program included 140 accepted papers, from more than 45 countries. The concept and format of CISSE'05 were very exciting and ground-breaking. The PowerPoint presentations, final paper manuscripts and time schedule for live presentations over the web had been available for 3 weeks prior to the start of the conference for all registrants, so they could choose the presentations they want to attend and think about questions that they might want to ask. The live audio presentations were also recorded and were part of the permanent CISSE archive, which also included all power point presentations and papers. SCSS'05 provided a virtual forum for presentation and discussion of the state-of-the-art research on Systems, Computing Sciences and Software Engineering.

DIRECTIONS OF DEVELOPMENT OF TRANSPORT NETWORKS AND TRAFFIC ENGINEERING

15TH SCIENTIFIC AND TECHNICAL CONFERENCE "TRANSPORT SYSTEMS. THEORY AND PRACTICE 2018", KATOWICE, POLAND, SEPTEMBER 17-19, 2018, SELECTED PAPERS

Springer This book offers a collection of valuable guidelines for making decisions concerning the future development of transport networks and traffic engineering. The decision-making support systems described here will certainly attract the interest of those who face the challenge of finding solutions to problems concerning modern transport systems on a daily basis. Consequently, the book is chiefly intended for local authorities involved in planning and preparing development strategies for specific transport-related areas (in both urban and regional contexts), as well as for representatives of business and industry who are directly engaged in the implementation of traffic engineering solutions. The guidelines provided in the respective chapters help to address the given problem soundly, and to simplify the selection of an appropriate strategy. The topics covered include increasing the competitiveness of public transport, the status quo of electric vehicle infrastructures worldwide, methods for calming urban traffic as an element of sustainable transport development, speed traffic zones and electric buses, car-sharing systems in Poland, a method for deconstructing the regional travel demand model, monitoring urban traffic using floating car data, problems of deliveries in urban agglomeration distribution systems, estimating the number of threatened people in case of fire in road tunnels, and road pavement evaluation using advanced tools. Since the book also considers new approaches to theoretical models (including traffic flow surveys and measurements, transport behaviors, human factors in traffic engineering, and road condition modeling), it will also appeal to researchers and scientists studying these problems. The book gathers selected papers presented at the 15th Scientific and Technical Conference "Transport Systems. Theory and Practice", organized by the Department of Transport Systems and Traffic Engineering, Silesian University of Technology in Katowice, Poland on September 17-19, 2018.

TRAFFIC ENGINEERING HANDBOOK

John Wiley & Sons "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"--

THE HANDBOOK OF HIGHWAY ENGINEERING

CRC Press Modern highway engineering reflects an integrated view of a road system's entire lifecycle, including any potential environmental impacts, and seeks to develop a sustainable infrastructure through careful planning and active management. This trend is not limited to developed nations, but is recognized across the globe. Edited by renowned authority

SYSTEMS ENGINEERING PROCESSES FOR DEVELOPING TRAFFIC SIGNAL SYSTEMS

Transportation Research Board