Table of Contents

Preface ................................................................................................................................................ xxii

Volume I

Section 1
Fundamental Concepts and Theories

This section serves as a foundation for this exhaustive reference tool by addressing underlying principles essential to the understanding of Transportation Systems and Engineering. Chapters found within these pages provide an excellent framework in which to position Transportation Systems and Engineering within the field of information science and technology. Insight regarding the critical incorporation of global measures into Transportation Systems and Engineering is addressed, while crucial stumbling blocks of this field are explored. With 16 chapters comprising this foundational section, the reader can learn and chose from a compendium of expert research on the elemental theories underscoring the Transportation Systems and Engineering discipline.

Chapter 1
Transportation Risk Analysis ................................................................................................................. 1
  Dragan Crnčević, INA Plc, Croatia

Chapter 2
Petroleum Industry Environmental Performance and Risk .............................................................. 32
  Lidia Hrncevic, University of Zagreb, Croatia

Chapter 3
Risk Due to Wellbore Instability ............................................................................................................. 57
  Nediljka Gaurina-Medjimurec, University of Zagreb, Croatia
  Borivoje Pasic, University of Zagreb, Croatia

Chapter 4
Risk Reduction in Natural Disaster Management through Information Systems: A Literature Review and an IS Design Science Research Agenda ........................................................................... 79
  Guido Schryen, University of Regensburg, Germany
  Felix Wex, University of Freiburg, Germany
Chapter 5
Knowledge Management in Support of Enterprise Risk Management........................................ 108
Eduardo Rodriguez, University of Ottawa, Canada & IQAnalytics Inc., Canada
John S. Edwards, Aston Business School, UK

Chapter 6
Oil and Gas Storage Tank Risk Analysis ............................................................................................ 128
Katarina Simon, University of Zagreb, Croatia

Chapter 7
Employing Traffic Lights as Road Side Units for Road Safety Information Broadcast.................... 143
Navin Kumar, University of Aveiro, Portugal
Luis Nero Alves, University of Aveiro, Portugal
Rui L. Aguiar, University of Aveiro, Portugal

Chapter 8
Risk Requirement for Multi-Hybrid Renewable Energy for Marine System.................................... 160
Oladokun Sulaiman Olanrewaju, University Malaysia Terengganu, Malaysia

Chapter 9
The Impact of Traffic Information Acquisition on the Traffic Conditions of the Athens Greater Area............................................................................................................ 174
Athena Tsirimpa, University of the Aegean, Greece
Amalia Polydoropoulou, University of the Aegean, Greece

Chapter 10
Intrusion Detection in Vehicular Ad-Hoc Networks on Lower Layers............................................ 192
Chong Han, University of Surrey, UK
Sami Muhaidat, Khalifa University, UAE
Ibrahim Abualhaol, Khalifa University, UAE
Mehrdad Dianati, University of Surrey, UK
Rahim Tafazolli, University of Surrey, UK

Chapter 11
Pareto Evolutionary Optimization of Joint Network Design and Pricing Strategies Related to Emissions in Urban Networks............................................................................................................. 221
Loukas Dimitriou, National Technical University of Athens, Greece
Antonios Kaltsounis, National Technical University of Athens, Greece
Antony Stathopoulos, National Technical University of Athens, Greece

Chapter 12
Project Risk Management: Use and Benefit of Various Tools.......................................................... 250
Jan Terje Karlsen, Norwegian Business School BI, Norway
Odin Folke-Olsen, Norwegian University of Science and Technology, Norway
Tim Torvatn, Norwegian University of Science and Technology, Norway
Chapter 13
Privacy Protection in Vehicular Ad-Hoc Networks .......................................................... 272
  Gongjun Yan, University of Southern Indiana, USA
  Danda B. Rawat, Georgia Southern University, USA
  Bhed Bahadur Bista, Iwate Prefectural University, Japan
  Wu He, Old Dominion University, USA
  Awny Alnusair, Indiana University – Kokomo, USA

Chapter 14
Passenger Train Delay Classification ................................................................................. 310
  Masoud Yaghini, Iran University of Science and Technology, Iran
  Maryam Setayesh Sanai, Iran University of Science and Technology, Iran
  Hossein Amin Sadrabady, Research and Training Center of Iranian Railways, Iran

Chapter 15
Managing Information for a Risk Based Approach to Stakeholder Management .................. 320
  Franco Caron, Politecnico di Milano, Italy
  Fulvio Salvatori, ENI, Italy

Chapter 16
Simulation-Based Scheduling of Waterway Projects Using a Parallel Genetic Algorithm .......... 334
  Ning Yang, Parsons Corporation, USA
  Shiaaulir Wang, Clarksville, USA
  Paul Schonfeld, University of Maryland, USA

Section 2
Frameworks and Methodologies

This section provides in-depth coverage of conceptual architecture frameworks to provide the reader with a comprehensive understanding of the emerging developments within the field of Transportation Systems and Engineering. Research fundamentals imperative to the understanding of developmental processes within Transportation Systems and Engineering are offered. From broad examinations to specific discussions on methodology, the research found within this section spans the discipline while offering detailed, specific discussions. From basic designs to abstract development, these chapters serve to expand the reaches of development and design technologies within the Transportation Systems and Engineering community. This section includes 19 contributions from researchers throughout the world on the topic of Transportation Systems and Engineering.

Chapter 17
Methodology for Risk Assessment and Costs Associated with Risk Occurrence in E-Government Projects ................................................................................................. 349
  Neven Vrček, University of Zagreb, Croatia
  Petra Peharda, University of Zagreb, Croatia
  Dušan Mundar, University of Zagreb, Croatia
Chapter 18
A Link-Node Nonlinear Complementarity Model for a Multiclass Simultaneous Transportation Dynamic User Equilibria ................................................................. 370
  Mohamad K. Hasan, Kuwait University, Kuwait
  Xuegang Ban, Rensselaer Polytechnic Institute, USA

Chapter 19
Proactive Security Protection of Critical Infrastructure: A Process Driven Methodology ............. 393
  Bill Bailey, Edith Cowan University, Australia
  Robert Doleman, Edith Cowan University, Australia

Chapter 20
A Real Time Topological Map Matching Methodology for GPS/GIS-Based Travel Behavior Studies ..................................................................................................... 422
  Carola A. Blazquez, Universidad Andres Bello, Chile
  Pablo A. Miranda, Pontificia Universidad Catolica de Valparaiso, Chile

Chapter 21
STAR-TRANS Modeling Language: Risk Modeling in the STAR-TRANS Risk Assessment Framework ....................................................................................................... 440
  Dimitris Zisiadis, Centre for Research & Technology Hellas (CERTH), Greece
  George Thanos, Centre for Research & Technology Hellas (CERTH), Greece
  Spyros Kopsidas, Centre for Research & Technology Hellas (CERTH), Greece
  George Leventakis, Center for Security Studies (KEMEA), Greece

Chapter 22
Proposed Isomorphic Graph Model for Risk Assessment on a Unix Operating System ............. 456
  Prashant Kumar Patra, College of Engineering & Technology, India
  Padma Lochan Pradhan, Sikha ‘O’ Anusandhan University, India

Chapter 23
The Role of a Sustainability Informatics Framework in Transportation Systems ..................... 470
  Lin Jia, Auburn University, USA
  Barry Cumbie, University of Southern Mississippi, USA
  Chetan S. Sankar, Auburn University, USA
  Jian Yu, Beijing Forestry University, China

Chapter 24
Meta-Modeling Based Secure Software Development Processes ........................................... 487
  Mehrez Essafi, University of Manouba, Tunisia
  Henda Ben Ghezala, University of Manouba, Tunisia

Chapter 25
Maturity and Process Capability Models and Their Use in Measuring Resilience in Critical Infrastructure Protection Sectors ......................................................... 506
  Clemith J. Houston Jr., University of Colorado Boulder, USA
  Douglas C. Sicker, University of Colorado Boulder, USA
### Chapter 26
ONTOST-TEC: An Ontology-Based Knowledge Management Framework to Teach Engineering Courses

**Authors:**
- C. R. Rene Robin, Jerusalem College of Engineering, India
- D. Doreen Hepzibah Miriam, Loyola-ICAM College of Engineering and Technology, India
- G. V. Uma, Madras Institute of Technology, India

---

### Chapter 27
Dynamic FCFS ACM Model for Risk Assessment on Real Time Unix File System

**Authors:**
- Prashant Kumar Patra, Biju Patnaik University of Technology (BPUT), India
- Padma Lochan Pradhan, Central Institute of Technology, India

---

### Volume II

#### Chapter 28
Critical Risk Path Method: A Risk and Contingency-Driven Model for Construction Procurement in Complex and Dynamic Projects

**Authors:**
- Chi Iromuanya, Capella University, USA
- Kathleen M. Hargiss, Capella University, USA
- Caroline Howard, HC Consulting, USA

---

#### Chapter 29
An Effective Methodology for Road Accident Data Collection in Developing Countries

**Authors:**
- Muhammad Adnan, NED University of Engineering and Technology, Pakistan
- Mir Shabbar Ali, NED University of Engineering and Technology, Pakistan

---

#### Chapter 30
The Challenges of Obtaining Credible Data for Transportation Security Modeling

**Authors:**
- Matt Campo, Rutgers University, USA
- Michael Greenberg, Rutgers University, USA
- Henry Mayer, Rutgers University, USA
- Karen Lowrie, Rutgers University, USA

---

#### Chapter 31
Analysis of Risk and Reliability in Project Delivery Methods

**Authors:**
- Robert Schultz, California State University, USA
- Ahmad Sarfaraz, California State University, USA
- Kourosh Jenab, Society of Reliability Engineering-Ottawa, Canada

---

#### Chapter 32
Rural Intelligent Public Transportation System Design: Applying the Design for Re-Engineering of Transportation eCommerce System in Iran

**Authors:**
- Leila Esmalei, Amirkabir University of Technology, Iran
- Seyyed AliReza Hashemi G., Amirkabir University of Technology, Iran
Chapter 33
GeneticTKM: A Hybrid Clustering Method Based on Genetic Algorithm, Tabu Search and K-Means

Masoud Yaghini, Iran University of Science and Technology, Iran
Nasim Gereilinia, Iran University of Science and Technology, Iran

Chapter 34
Agent-Based Modeling for Carpooling

Luk Knapen, Hasselt University, Belgium
Ansar-Ul-Haque Yasar, Hasselt University, Belgium
Sungjin Cho, Hasselt University, Belgium
Tom Bellemans, Hasselt University, Belgium

Chapter 35
On-Board Unit Hardware and Software Design for Vehicular Ad-Hoc Networks

Matteo Petracca, National Interuniversity Consortium for Telecommunications, Italy
Paolo Pagano, National Interuniversity Consortium for Telecommunications, Italy
Riccardo Pelliccia, Scuola Superiore Sant’Anna, Italy
Marco Ghibaudi, Scuola Superiore Sant’Anna, Italy
Claudio Salvadori, Scuola Superiore Sant’Anna, Italy
Christian Nastasi, Scuola Superiore Sant’Anna, Italy

Section 3
Tools and Technologies

This section presents an extensive coverage of various tools and technologies available in the field of Transportation Systems and Engineering that practitioners and academicians alike can utilize to develop different techniques. These chapters enlighten readers about fundamental research on the many tools facilitating the burgeoning field of Transportation Systems and Engineering. It is through these rigorously researched chapters that the reader is provided with countless examples of the up-and-coming tools and technologies emerging from the field of Transportation Systems and Engineering. With 13 chapters, this section offers a broad treatment of some of the many tools and technologies within the Transportation Systems and Engineering field.

Chapter 36
Enhancing DotProject to Support Risk Management Aligned with PMBOK in the Context of SMEs

Rafael Queiroz Gonçalves, Federal University of Santa Catarina, Brazil
Elisa de Freitas Kählkamp, Federal University of Santa Catarina, Brazil
Christiane Gresse von Wangenheim, Federal University of Santa Catarina, Brazil

Chapter 37
A Pattern-Based and Tool-Supported Risk Analysis Method Compliant to ISO 27001 for Cloud Systems

Azadeh Alebrahim, University of Duisburg-Essen, Germany
Denis Hatebur, University of Duisburg-Essen, Germany
Stephan Fassbender, University of Duisburg-Essen, Germany
Ludger Goekke, ITESYS Inst. f. tech. Sys. GmbH, Germany
Isabelle Côté, ITESYS Inst. f. tech. Sys. GmbH, Germany
Chapter 38
Risk Evaluation in the Insurance Company Using REFII Model ........................................... 748
Goran Klepac, Raiffeisen Bank Austria, Croatia

Chapter 39
Seamless Communication to Mobile Devices in Vehicular Wireless Networks ....................... 769
Kira Kastell, Frankfurt University of Applied Sciences, Germany

Chapter 40
Threatening the Cloud: Securing Services and Data by Continuous, Model-Driven Negative
Security Testing .................................................................................................................................. 789
Philipp Zech, University of Innsbruck, Austria
Philipp Kalb, University of Innsbruck, Austria
Michael Felderer, University of Innsbruck, Austria
Ruth Breu, University of Innsbruck, Austria

Chapter 41
Communication Networks to Connect Moving Vehicles to Transportation Systems to
Infrastructure ........................................................................................................................................ 815
Kira Kastell, Frankfurt University of Applied Sciences, Germany

Chapter 42
RETRA: Web Based Resource Allocation Tool for Emergency Management .......................... 836
Venkata S. Inampudi, University of Massachusetts, USA
Russell Kondaveti, University of Massachusetts, USA
Aura Ganz, University of Massachusetts, USA

Chapter 43
Financial Software as a Service: A Paradigm for Risk Modelling and Analytics .................. 849
Muthu Ramachandran, Leeds Beckett University, UK
Victor Chang, Leeds Beckett University, UK

Chapter 44
QoS-Aware Chain-Based Data Aggregation in Cooperating Vehicular Communication Networks
and Wireless Sensor Networks ........................................................................................................... 874
Zahra Taghikhaki, University of Twente, The Netherlands
Yang Zhang, University of Twente, The Netherlands
Nirvana Meratnia, University of Twente, The Netherlands
Paul J.M. Havinga, University of Twente, The Netherlands

Chapter 45
Cloud Computing for Global Software Development: Opportunities and Challenges ........... 897
Thamer Al-Rousan, Isra University, Jordan
Chapter 46
An 802.11p Compliant System Prototype Supporting Road Safety and Traffic Management Applications ................................................................. 909
  Helen C. Leligou, Technological Educational Institute of Central Greece, Greece
  Periklis Chatzimisios, Alexander TEI of Thessaloniki, Greece
  Lambros Sarakis, Technological Educational Institute of Central Greece, Greece
  Theofanis Orphanoudakis, Technological Educational Institute of Central Greece, Greece
  Panagiotis Karkazis, Technological Educational Institute of Central Greece, Greece
  Theodore Zahariadis, Technological Educational Institute of Central Greece, Greece

Chapter 47
Holistic and Law Compatible IT Security Evaluation: Integration of Common Criteria, ISO 27001/IT-Grundschutz and KORA ................................................................. 927
  Daniela Simić-Draws, Universität Koblenz-Landau, Germany
  Stephan Neumann, Technische Universität Darmstadt, Germany
  Anna Kahlert, Universität Kassel, Germany
  Philipp Richter, Universität Kassel, Germany
  Rüdiger Grimm, Universität Koblenz-Landau, Germany
  Melanie Volkamer, Technische Universität Darmstadt, Germany
  Alexander Roßnagel, Universität Kassel, Germany

Chapter 48
Multi-System Integration Scheme for Intelligence Transportation System Applications .............. 947
  Chih-Chiang Kuo, Institute for Information Industry, Taiwan
  Jyun-Naih Lin, Institute for Information Industry, Taiwan
  Syue-Hua Wu, Institute for Information Industry, Taiwan
  Cheng-Hsuan Cho, Institute for Information Industry, Taiwan
  Yi-Hong Chu, Institute for Information Industry, Taiwan
  Frank Chee Da Tsai, Institute for Information Industry, Taiwan

Section 4
Cases and Applications

This section discusses a variety of applications and opportunities available that can be considered by practitioners in developing viable and effective Transportation Systems and Engineering programs and processes. This section includes 13 chapters that review topics on case studies, best practices, and ongoing research. Further chapters discuss Transportation Systems and Engineering in a variety of settings. Contributions included in this section provide excellent coverage of today’s IT community and how research into Transportation Systems and Engineering is impacting the social fabric of our present-day global village.

Chapter 49
A Case Study for Business Integration as a Service ................................................................. 964
  Victor Chang, Leeds Metropolitan University, UK & University of Southampton, UK

Chapter 50
Decision Support Model for Fire Insurance Risk Analysis in a Petrochemical Case Study .............. 990
  Hadis Z. Nejad, Islamic Azad University (IAU), Iran
  Reza Samizadeh, Alzahra University, Iran
Chapter 51
Risk Analysis of Completion and Production Systems.................................................. 1005
Davorin Matanovic, University of Zagreb, Croatia

Chapter 52
Teaching Case for Addressing Risks with Strategies in an International Airport Project.......... 1025
Daly Paulose, SCMS Educational Institutions Group, India

Chapter 53
Chengcui Zhang, The University of Alabama - Birmingham, USA

Chapter 54
A Sensitivity Analysis of Critical Genetic Algorithm Parameters: Highway Alignment Optimization Case Study .................................................................................................................. 1064
Eungcheol Kim, Incheon National University, South Korea
Manoj K. Jha, Morgan State University, USA
Min-Wook Kang, University of South Alabama, USA

Chapter 55
Traffic Safety Implications of Travel Demand Management Policies: The Cases of Teleworking and Fuel Cost Increase .................................................................................................................. 1082
Ali Pirdavani, Hasselt University, Belgium
Tom Bellemans, Hasselt University, Belgium
Tom Brijs, Hasselt University, Belgium
Bruno Kochan, Hasselt University, Belgium
Geert Wets, Hasselt University, Belgium

Chapter 56
Analysis of Passengers’ Perception of Public Transport Quality and Performance ......... 1108
Yannis Tyrinopoulos, Technological Educational Institute of Athens, Greece
Constantinos Antoniou, National Technical University of Athens (NTUA), Greece

Chapter 57
Risk Analysis in the Process of Hydraulic Fracturing ..................................................... 1125
Sonja Koščak Kolin, University of Zagreb, Croatia
Marin Čikeš, University of Zagreb, Croatia

Volume III

Chapter 58
Assessing Human Reliability Behaviour from Use of Technology for Ships Navigating within Coastal Water .................................................................................................................. 1141
Oladokun Sulaiman Olanrewaju, University Malaysia Terengganu, Malaysia
Chapter 59
Using AIS Data for Navigational Risk Assessment in Restricted Waters .......................... 1154
  Adi Maimun, Universiti Teknologi Malaysia, Malaysia
  Istaz F. Nursyirman, Universiti Teknologi Malaysia, Malaysia
  Ang Yit Sian, Universiti Teknologi Malaysia, Malaysia
  Rahimuddin Samad, Universiti Teknologi Malaysia, Malaysia
  Sulaiman Oladokun, Universiti Malaysia Terengganu, Malaysia

Chapter 60
Analysis of Pedestrian Road Crossing Behaviour in Urban Areas ........................................ 1164
  Eleonora Papadimitriou, National Technical University of Athens, Greece
  George Yannis, National Technical University of Athens, Greece
  John Golias, National Technical University of Athens, Greece

Chapter 61
Applying the Safety and Environmental Risk and Reliability Model (SERM) for Malaysian Langat River Collision Aversion................................................................. 1180
  Oladokun Sulaiman Olanrewaju, University Malaysia Terengganu, Malaysia
  Ab Saman Ab Kader, Universiti Teknologi Malaysia, Malaysia

Section 5
Issues and Challenges

This section contains 12 chapters, giving a wide variety of perspectives on Transportation Systems and Engineering and its implications. The section also discusses new ethical considerations within transparency and accountability. Within the chapters, the reader is presented with an in-depth analysis of the most current and relevant issues within this growing field of study. Crucial questions are addressed and alternatives offered and theoretical approaches are discussed.

Chapter 62
General Approach to Risk Analysis......................................................................................... 1217
  Davorin Matanovic, University of Zagreb, Croatia

Chapter 63
Genre-Based Approach to Assessing Information and Knowledge Security Risks.............. 1237
  Ali Mohammad Padyab, Luleå University of Technology, Sweden
  Tero Päivärinta, Luleå University of Technology, Sweden
  Dan Harnesk, Luleå University of Technology, Sweden

Chapter 64
A Software Tool to support Risks Analysis about what Should or Should Not go to the Cloud ..... 1254
  Miguel Torrealba S., Simón Bolívar University, Venezuela
  Mireya Morales P., Simón Bolívar University, Venezuela
  José M. Campos, Simón Bolívar University, Venezuela
  Marina Meza S., Simón Bolívar University, Venezuela
Chapter 65
The Integrative Time-Dependent Modeling of the Reliability and Failure of the Causes of Drivers’ Error Leading to Road Accidents .......................................................... 1279
Khashayar Hojjati-Enami, University of Ottawa, Canada
Balbir S. Dhillon, University of Ottawa, Canada
Kouroush Jenab, Society of Reliability Engineering-Ottawa, Canada

Chapter 66
Lost Circulation ........................................................................................................ 1295
Nediljka Gaurina-Medjimurec, University of Zagreb, Croatia
Borivoje Pasic, University of Zagreb, Croatia

Chapter 67
Large-Scale Agent-Based Models for Transportation Network Management under Unplanned Events................................................................. 1316
Yunjie Zhao, SUNY Buffalo, USA
Adel W. Sadek, SUNY Buffalo, USA

Chapter 68
Olav Skjelkvåle Ligaarden, SINTEF ICT & University of Oslo, Norway
Atle Refsdal, SINTEF ICT, Norway
Ketil Stølen, SINTEF ICT & University of Oslo, Norway

Chapter 69
A Survey of Wireless Backhauling Solutions for ITS ........................................ 1378
Claudio Cicconetti, Intecs S.p.A., Italy
Raffaella Mambrini, Intecs S.p.A., Italy
Alessandro Rossi, Intecs S.p.A., Italy

Chapter 70
Snježana Mihalić Arbanas, University of Zagreb, Croatia
Željko Arbanas, University of Rijeka, Croatia

Chapter 71
WLAN Systems for Communication in Transportation Systems: Towards the Benefits of a Cooperative Vehicular Approach ......................................................... 1429
Riccardo Scopigno, Istituto Superiore Mario Boella (ISMB), Italy

Chapter 72
Managing Risk in Small and Medium Enterprises (SMEs) Supply Chains’ Using Quality Function Deployment (QFD) Approach ...................................................... 1469
Mohd. Nishat Faisal, Qatar University, Qatar
Chapter 73
Workover Impact on Accidental Risk ................................................................. 1490
Bojan Moslavac, University of Zagreb, Croatia

Section 6
Emerging Trends

This section highlights research potential within the field of Transportation Systems and Engineering while exploring uncharted areas of study for the advancement of the discipline. Introducing this section are chapters that set the stage for future research directions and topical suggestions for continued debate, centering on the new venues and forums for discussion. A pair of chapters on the usability and effectiveness research makes up the middle of the section of the final 7 chapters, and the book concludes with a look ahead into the future of the Transportation Systems and Engineering field. In all, this text will serve as a vital resource to practitioners and academics interested in the best practices and applications of the burgeoning field of Transportation Systems and Engineering.

Chapter 74
Evolution of Security Engineering Artifacts: A State of the Art Survey...................... 1508
Michael Felderer, University of Innsbruck, Austria
Basel Katt, University of Innsbruck, Austria
Philipp Kalb, University of Innsbruck, Austria
Jan Järjens, Technical University of Dortmund, Germany
Martin Ochoa, Technical University of Munich, Germany
Federica Paci, University of Trento, Italy
Le Minh Sang Tran, University of Trento, Italy
Thein Than Tun, The Open University, UK
Koen Yskout, iMinds-DistriNet, KU Leuven, Belgium
Riccardo Scandariato, iMinds-DistriNet, KU Leuven, Belgium
Frank Piessens, iMinds-DistriNet, KU Leuven, Belgium
Dries Vanoverberghe, iMinds-DistriNet, KU Leuven, Belgium
Elizabeta Fourneret, University of Luxembourg, Luxembourg
Matthias Gander, University of Innsbruck, Austria
Bjornar Solhaug, SINTEF, Norway
Ruth Breu, University of Innsbruck, Austria

Chapter 75
Adding Electric Vehicle Modeling Capability to an Agent-Based Transport Simulation........ 1563
Rashid A. Waraich, ETH Zurich, Switzerland
Gil Georges, ETH Zurich, Switzerland
Matthias D. Galus, ETH Zurich, Switzerland
Kay W. Axhausen, ETH Zurich, Switzerland

Chapter 76
A Threat Table Based Assessment of Information Security in Telemedicine.................... 1601
John C. Pendergrass, University of Illinois - Chicago, USA
Karen Heart, Tagmata Software Security, USA
C. Ranganathan, University of Illinois - Chicago, USA
V. N. Venkatakrishnan, University of Illinois - Chicago, USA
Chapter 77
A New Method for Writing Assurance Cases............................................................... 1614
   Yutaka Matsuno, Nagoya University, Japan
   Shuichiro Yamamoto, Nagoya University, Japan

Chapter 78
TraffCon: An Innovative Vehicle Route Management Solution Based on IEEE 802.11p Sparse Roadside-Vehicle Networking................................................................. 1633
   Kevin Collins, Dublin City University, Ireland
   Gabriel-Miro Muntean, Dublin City University, Ireland

Chapter 79
A Novel Distributed QoS Control Scheme for Multi-Homed Vehicular Networks.................. 1667
   Hamada Alshaer, Khalifa University, UAE
   Thierry Ernst, l’Ecole des Mines Paristech, France
   Arnaud de La Fortelle, l’Ecole des Mines Paristech, France

Chapter 80
A New Design of Intelligent Traffic Signal Control ...................................................... 1686
   Fatemeh Daneshfar, University of Kurdistan, Iran
   Javad RavanJamJah, University of Kurdistan, Iran

Index........................................................................................................................................ XXV