

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**



Name	<b>ANTONIOU, CONSTANTINOS (COSTAS)</b>
Personal Address	<b>26 SAPFOUS ST. GR-14671, NEA ERYTHRAIA, GREECE</b>
Work Address	<b>NATIONAL TECHNICAL UNIVERSITY OF ATHENS LABORATORY OF TRANSPORTATION ENGINEERING 9 IROON POLYTECHNIU STR., ZOGRAFOU CAMPUS, GR-15780 ATHENS, GREECE</b>
Telephone	<b>++30 210 7722783</b>
Fax	<b>++30 210 7722629</b>
E-mail	<b><a href="mailto:antoniou@central.ntua.gr">antoniou@central.ntua.gr</a>, <a href="mailto:costas@alum.mit.edu">costas@alum.mit.edu</a></b>
URL	<b><a href="http://users.ntua.gr/antoniou">http://users.ntua.gr/antoniou</a></b>
Nationality	Hellenic (European Union)
Date of birth	4 MARCH 1973
Gender	MALE
Family status	MARRIED (THREE CHILDREN)

Constantinos Antoniou is a (tenured) Associate Professor in the National Technical University of Athens (NTUA), Greece. He holds a Diploma in Civil Engineering from NTUA (1995), a MS in Transportation (1997) and a PhD in Transportation Systems (2004), both from MIT. His research focuses on modelling and simulation of transportation systems, Intelligent Transport Systems (ITS), calibration and optimization applications, road safety and sustainable transport systems and in his 20 years of experience he has held key positions in a number of research projects in Europe, the US and Asia, while he has also participated in a number of consulting projects. Costas has a proven track record in attracting competitive funding in both national and international levels. He is/has been the PI of several research projects, and has contributed considerably to the preparation of a large number of funded proposals, in the national and international level.

He has authored more than 250 scientific publications, including more than 65 papers in international, peer-reviewed journals, 160 in international conference proceedings, a book and 17 book chapters. He is a member of several professional and scientific organizations, editorial boards (Member of the Editorial Board of Transportation Research – Part C and Journal of Intelligent Transportation Systems, Editor in European region in the International Journal of Transportation), committees (Secretary of TRB committee AND20 User Information Systems, Member of TRB committee AHB45 – Traffic Flow Theory, Steering Committee of hEART – The European Association for Research in Transportation), and a frequent reviewer for a large number of scientific journals, scientific conferences, research proposals and scholarships.

He enjoys teaching at the graduate and undergraduate levels, as well as in other venues, such as Summer Schools and Short Courses. He has supervised one PhD student at NTUA (graduated at 2004), and is currently supervising five more, has supervised 5 graduate theses and 17 five-year diploma theses at NTUA, as well as participated in various roles in doctoral committees and examinations in other universities (such as KTH, TU Berlin, University of Naples – Federico II, EPFL and the National University of Singapore).

A leader of the profession and opinion maker, with frequent presence in major national media (TV, radio, newspapers) on transportation topics. As part of his volunteer activities, he is the former Chairman of the Hellenic Institute of Transportation Engineers (HITE), President of the MIT Club of Greece, and co-founder and Secretary of the Board of Directors of the MIT Enterprise Forum Greece.

## RESEARCH INTERESTS

- MODELING AND SIMULATION OF TRANSPORTATION SYSTEMS, WITH AN EMPHASIS ON BEHAVIORAL ASPECTS AND DEMAND MODELING
- INTELLIGENT TRANSPORT SYSTEMS (ITS), INCLUDING USER ACCEPTANCE AND PERCEPTION
- CALIBRATION AND OPTIMIZATION APPLICATIONS, WITH AN EMPHASIS ON DERIVATIVE-FREE, LARGE SCALE ALGORITHMS FOR STOCHASTIC, NOISY SYSTEMS
- ROAD SAFETY
- STATISTICS AND ECONOMETRICS MODELS AND THEIR APPLICATIONS

## WORK EXPERIENCE

(SELECTED PROJECTS' LIST IN ANNEX 1)

- Dates (from – to)
    - Name and address of employer
      - Type of business or sector
      - Occupation or position held
    - Main activities and responsibilities
  - Dates (from – to)
    - Name and address of employer
      - Type of business or sector
      - Occupation or position held
    - Main activities and responsibilities
  - Dates (from – to)
    - Name and address of employer
      - Type of business or sector
      - Occupation or position held
    - Main activities and responsibilities
  - Dates (from – to)
    - Name and address of employer
      - Type of business or sector
      - Occupation or position held
    - Main activities and responsibilities
  - Dates (from – to)
    - Name and address of employer
      - Type of business or sector
      - Occupation or position held
    - Main activities and responsibilities
  - Dates (from – to)
    - Name and address of employer
      - Type of business or sector
      - Occupation or position held
    - Main activities and responsibilities
  - Dates (from – to)
    - Name and address of employer
      - Type of business or sector
      - Occupation or position held
    - Main activities and responsibilities
- 2008-Present  
National Technical University of Athens, Greece  
University / Higher Education  
Tenured Associate Professor (since March 2014, Assistant Professor until then)  
Teaching graduate and undergraduate courses, supervision of diploma theses and Ph.D. dissertations, preparation, management and execution of research projects (e.g. EU co-funded projects DACOTA, SustainCity, Multitude - COST Action TU0903, as well as nationally funded projects, such as DriverBrain, DISTRACT and EMPARCO), basic and applied research.
- 2008-Present  
Massachusetts Institute of Technology, Cambridge MA, USA  
University / Higher Education  
Research Affiliate  
Co-supervision of graduate theses, participation in research projects, both in Cambridge (US) and the Singapore-MIT Alliance for Research and Technology (SMART) in Singapore
- 2004-2008  
Massachusetts Institute of Technology, Cambridge MA, USA  
University / Higher Education  
Post-doctoral Research Associate  
Management and participation, including Technical Lead, in research projects, co-supervision of graduate theses, preparation of research proposals
- 2006-2008  
TREDIT S.A., Athens, Greece  
Transport Consultancy  
Director of Athens Branch  
Athens branch administration, Principal Investigator (PI) of EU projects (including FREIGHTWISE, EFFORTS, EURIDICE, PROMIT, MADAMA, MEDIGATE, CORELOG, SMART-CM) and national projects, preparation of research proposals
- 1999-2008  
National Technical University of Athens, Greece  
University / Higher Education  
Research Associate  
Participation in EU projects primarily related to road safety and ITS (incl. ADVISORS, SAFETY-NET, MARIE CURIE FLEXIBLETRAFFIC) and national projects
- 2001-2004  
Massachusetts Institute of Technology, Cambridge MA, USA  
University / Higher Education  
Full-time Research Assistant  
Management and participation in research projects, co-supervision of undergraduate projects and graduate theses, preparation of research proposals

- Dates (from – to) 2000-2001
- Name and address of employer TRD International SA, Athens, Greece
  - Type of business or sector Transport Consultancy
  - Occupation or position held Senior Transportation Consultant
- Main activities and responsibilities Participation in research projects, development of software (including some the main components of the Container Management Terminal System currently operational at the Port of Thessaloniki (second largest port in Greece).
  
- Dates (from – to) 1999-2000
- Name and address of employer IBI Group UK Ltd., Athens, Greece
  - Type of business or sector Transport Consultancy/System integrator
  - Occupation or position held Senior Transportation Engineer
- Main activities and responsibilities Participation in the design of the Integrated Toll and Traffic Management System of the Attiki Odos Toll-way
  
- Dates (from – to) 1997
- Name and address of employer DENCO Ltd. Athens, Greece
  - Type of business or sector Transport Consultant
  - Occupation or position held Transportation Engineer
- Main activities and responsibilities Traffic simulation study for the prediction of the expected traffic under various tolling schemes for the (then-planned) underwater tunnel for the Malliakos Gulf.
  
- Dates (from – to) 1995-1997
- Name and address of employer Massachusetts Institute of Technology, Cambridge MA, USA
  - Type of business or sector University / Higher Education
  - Occupation or position held Full-time Research Assistant
- Main activities and responsibilities Management and participation in research projects, preparation of research proposals

## EDUCATION AND TRAINING

- Dates (from – to) 2001-2004
  - University Massachusetts Institute of Technology, Cambridge MA, USA
- Principal subjects/occupational skills covered Transportation Systems Simulation and Operation, Intelligent Transport Systems, Modeling and Optimization, Demand Modeling, Public Transport Operation and Management
- Title of qualification awarded Ph.D. in Transportation Systems, title: “On-line calibration for dynamic traffic assignment”, supervisors: Prof. M. Ben-Akiva and Prof. H. N. Koutsopoulos
  
- Dates (from – to) 1995-1997
  - University Massachusetts Institute of Technology, Cambridge MA, USA
- Principal subjects/occupational skills covered Transportation Systems Simulation and Operation, Intelligent Transport Systems, Modeling and Optimization, Demand Modeling
- Title of qualification awarded MS in Transportation, title: “Demand simulation for dynamic traffic assignment”, supervisor: Prof. M. Ben-Akiva
  
- Dates (from – to) 1990-1995
  - University National Technical University of Athens, Greece
- Principal subjects/occupational skills covered Civil Engineering  
Transportation Engineering
- Title of qualification awarded Diploma (5-year) in Civil Engineering (Transportation Specialization)

## PUBLICATIONS (LIST IN ANNEX 2)

MORE THAN 250 SCIENTIFIC PUBLICATIONS INCLUDING 2 DIPLOMA THESES, 1 DOCTORAL DISSERTATION, 1 BOOK, MORE THAN 15 CHAPTERS IN BOOKS, MORE THAN 65 PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS, MORE THAN 160 PUBLICATIONS IN REFEREED INTERNATIONAL CONFERENCE PROCEEDINGS, 50 PRESENTATIONS IN CONFERENCES AND WORKSHOPS WITHOUT PROCEEDINGS AND 3 LECTURE NOTES/TEXTBOOKS

## CITATIONS

THESE PUBLICATIONS HAVE ATTRACTED HUNDREDS OF CITATIONS FROM OTHER RESEARCHERS. AS OF MARCH 30, 2016 THERE WERE >1500 CITATIONS IN GOOGLE SCHOLAR (~1200 IN THE LAST FIVE YEARS), (H-INDEX: 23, I10-INDEX: 37)

## EDITORIAL BOARD AND SCIENTIFIC COMMITTEE MEMBERSHIP

EDITORIAL BOARD OF TRANSPORTATION RESEARCH PART C: EMERGING TECHNOLOGIES  
EDITORIAL BOARD OF JOURNAL OF INTELLIGENT TRANSPORTATION SYSTEMS  
EDITOR IN EUROPEAN REGION OF THE INTERNATIONAL JOURNAL OF TRANSPORTATION  
GUEST EDITOR IN SPECIAL ISSUES FOR SEVERAL JOURNALS (E.G. IEEE TRANSACTIONS IN ITS)  
SECRETARY OF TRB COMMITTEE AND20 USER INFORMATION SYSTEMS  
MEMBER OF TRB COMMITTEE AHB45 TRAFFIC FLOW THEORY AND CHARACTERISTICS  
MEMBER OF THE TRB TASK FORCE ON SIMULATION  
STEERING COMMITTEE MEMBER OF hEART: EUROPEAN ASSOCIATION FOR RESEARCH IN TRANSPORTATION  
MEMBER OF >30 SCIENTIFIC COMMITTEES OF INTERNATIONAL AND NATIONAL SCIENTIFIC CONFERENCES (INCLUDING PUBLICATIONS CO-CHAIR IEEE ITSC 2016, SPECIAL SESSIONS CO-CHAIR IEEE ITSC 2010)

## REVIEWING RESPONSIBILITIES (SEE ANNEX 3 FOR SELECTIVE LIST)

REVIEWER FOR OVER 40 SCIENTIFIC JOURNALS, MORE THAN 50 INTERNATIONAL SCIENTIFIC CONFERENCES, GREEK SCIENTIFIC CONFERENCES, AS WELL AS RESEARCH PROPOSALS IN MORE THAN 10 RESEARCH ORGANIZATIONS FROM EUROPE AND THE US.

## PARTICIPATION IN CONFERENCES

PARTICIPATION IN >100 CONFERENCES  
CHAIR OR MODERATOR OF SESSIONS IN >40 SCIENTIFIC CONFERENCES

## TEACHING

TEACHING OF 7 COURSES AT NTUA SINCE 2008.

UNDERGRADUATE (WITHIN 5-YEAR DIPLOMA PROGRAMME):

- DESIGN OF TRANSPORTATION FACILITIES OTHER THAN HIGHWAYS AND PRINCIPLES OF TRANSPORTATION ECONOMICS, 5TH SEMESTER. COMPULSORY COURSE
- HIGHWAY ENGINEERING II (TRAFFIC ENGINEERING), 7TH SEMESTER. COMPULSORY FOR TRANSPORTATION DIRECTION
- TRANSPORTATION SYSTEMS, 7TH SEMESTER. COMPULSORY FOR TRANSPORTATION DIRECTION
- HIGHWAY ENGINEERING III (INTERSECTION DESIGN AND OPERATION), 8TH SEMESTER. COMPULSORY FOR TRANSPORTATION DIRECTION
- RAILWAY ENGINEERING, 8TH SEMESTER. ELECTIVE COURSE
- HIGHWAY DESIGN AND OPERATION, 9TH SEMESTER. PROJECT-ORIENTED COURSE

GRADUATE (MSC IN GEOINFORMATICS):

- TELEMATICS APPLICATIONS IN TRANSPORTATION INFRASTRUCTURE, 2ND SEMESTER. ELECTIVE COURSE

ORGANIZATION AND PARTICIPATION IN A NUMBER OF SUMMER SCHOOLS AND RELATED ACTIVITIES, SUCH AS THE MULTITUDE SUMMER SCHOOLS IN ISPRA, ITALY (2012), CHIOS, GREECE (2014) AND NICOSIA, CYPRUS (2015), AND A BIG DATA AND MOBILITY SUMMER SCHOOL IN NICOSIA (2016).

## SUPERVISION OF DISSERTATIONS AND THESES

SUPERVISION OF (6: 1 COMPLETED, 5 ONGOING) DOCTORAL DISSERTATIONS AT NTUA OPPONENT/EXAMINER/COMMITTEE MEMBER IN (5 COMPLETED) DOCTORAL DISSERTATIONS ABROAD AND IN GREECE (3 COMPLETED)

MEMBER OF ADVISORY/MONITORING AND EVALUATION COMMITTEES FOR SEVERAL PHD STUDENTS AT NTUA AND OTHER GREEK AND INTERNATIONAL UNIVERSITIES

SUPERVISION OF (5) MS THESES AT NTUA MSc PROGRAMME IN GEOINFORMATICS.

SUPERVISION OF (20) DIPLOMA THESES (17 COMPLETED) AT NTUA

PARTICIPATION IN SUPERVISION OF MS THESES AT VARIOUS UNIVERSITIES (SUCH AS MIT, AND THE LEBANESE UNIVERSITY)

## INVITED SEMINARS AND KEYNOTES

INVITED TO GIVE A NUMBER OF SEMINARS (E.G. UNIVERSITY OF CYPRUS, PORTLAND STATE UNIVERSITY, UC BERKELEY, EPFL, TU BERLIN, UNIVERSITY OF NAPLES, CALPOLY AT SAN LUIS OBISPO), PRESENT IN A NUMBER OF SUMMER SCHOOLS, GIVE KEYNOTE PRESENTATIONS AT CONFERENCES (E.G. INTERNATIONAL SYMPOSIUM ON THE RECENT ADVANCES IN INTELLIGENT TRANSPORTATION SYSTEMS

**AWARDS AND DISTINCTIONS  
(SELECTED)**

AND TRAFFIC FLOW THEORY: THE FRONTIER AND CHALLENGES IN HANGZHOU CHINA IN OCT 2014, RELIABILITY AND STATISTICS 2012 IN RIGA, LATVIA AND 15<sup>TH</sup> ROAD SAFETY SEMINAR IN 2013 IN CYPRUS, COGNITION, BEHAVIOR AND DRIVING, ATHENS, 2016)

MEMBER OF THE STEERING COMMITTEE OF HEART – EUROPEAN ASSOCIATION FOR RESEARCH IN TRANSPORTATION (HEART-WEB.ORG) (2014-PRESENT)

GRANT FOR SHORT-TERM SCIENTIFIC MISSION (STSM) FROM COST, JUNE-JULY 2013

OIKOPOLIS AWARD 2013 FOR BEST DIPLOMA THESIS IN THE FIELD OF TRANSPORT (SUPERVISOR OF MARKOS KLADEFTIRAS' THESIS)

2013 TRB COMMITTEE ANB20 2013 “OUTSTANDING PAPER AWARD” FOR THE PAPER “ANTONIOU, C., AND G. YANNIS, ASSESSMENT OF EXPOSURE PROXIES FOR MACROSCOPIC ROAD SAFETY PREDICTION”

CONFERENCE GRANT FOR EARLY STAGE RESEARCHERS (AWARDED BY THE EU COST OFFICE) (FOR PARTICIPATION TO THE 91ST ANNUAL MEETING OF THE TRANSPORTATION RESEARCH BOARD, JANUARY 2012, WASHINGTON, D.C.).

2011 IEEE ITS OUTSTANDING APPLICATION AWARD (FOR DYNA MIT DTA MODEL)

MARIE-CURIE FELLOW (2006-2008 INTERNATIONAL REINTEGRATION GRANT, AWARDED BY THE EU)

“ALL-ROUND EXCELLENCE” GRANT (2005-2006) – EXCELLENCE GRANT FROM THE AUSTRIAN RESEARCH CENTERS (ARC)

FHWA SCHOLARSHIP – TRAVEL GRANT, FOR PARTICIPATION TO THE 7TH INTERNATIONAL IEEE CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS, WASHINGTON, D.C., OCTOBER 3–6, 2004.

FULL-TIME RESEARCH ASSISTANT, DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING, MIT (1995-1997, 2001-2004)

1997 MILTON PIKARSKY AWARD “FOR AN OUTSTANDING MASTER OF SCIENCE THESIS”, AWARDED BY THE COUNCIL OF UNIVERSITY TRANSPORTATION CENTERS (CUTC)

**PROFESSIONAL MEMBERSHIPS**

AMERICAN SOCIETY OF CIVIL ENGINEERS (UNTIL 2012)

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) (UNTIL 2013)

TRANSPORTATION RESEARCH BOARD (TRB)

TECHNICAL CHAMBER OF GREECE (TEE)

ASSOCIATION OF CIVIL ENGINEERS OF GREECE (SPME)

HELLENIC INSTITUTE OF TRANSPORTATION ENGINEERS (HITE) – CHAIRMAN OF THE BoD (2014-2016), VICE-CHAIRMAN OF THE BoD (2012-2014), GENERAL SECRETARY OF THE BoD (2010-2012), SPECIAL SECRETARY OF THE BOARD OF DIRECTORS (BoD) (2008-2010).

**PERSONAL SKILLS  
AND COMPETENCES**

MOTHER TONGUE

**GREEK**

OTHER LANGUAGES

**ENGLISH**

EXCELLENT

EXCELLENT

EXCELLENT

- Reading skills
- Writing skills
- Verbal skills

**GERMAN**

GOOD

GOOD

GOOD

- Reading skills
- Writing skills
- Verbal skills

**ORGANISATIONAL SKILLS  
AND COMPETENCES**

EFFECTIVE MANAGEMENT OF SMALL- AND MID-SIZE TEAMS (SMALL RESEARCH TEAMS AT MIT AND NTUA, OFFICE OF 15 PEOPLE AND RESEARCH GROUP OF 10+ AT TREDIT)

PREPARATION OF PROPOSALS, INCLUDING TECHNICAL AND FINANCIAL ASPECTS – SUCCESSFUL IN RAISING GRANTS BASED ON THESE PROPOSALS IN A NATIONAL AND INTERNATIONAL (EU) LEVEL

ENTHUSIASTIC IN TEACHING, ATTRACTING POSITIVE FEEDBACK AND EVALUATIONS FROM STUDENTS

TECHNICAL SKILLS AND COMPETENCES	<p>PRESENTATIONS AND COMMUNICATION SKILLS, BOTH AT PROFESSIONAL AND SCIENTIFIC VENUES</p> <p>SIGNIFICANT EXPERIENCE IN THE DESIGN AND DEVELOPMENT OF TECHNICAL AND SCIENTIFIC SOFTWARE IN SEVERAL LANGUAGES (INCLUDING: C/C++, PYTHON, MATLAB/OCTAVE, BASH/TCSH SHELL SCRIPTING, DELPHI/PASCAL, SQL, MAPOBJECTS, CORBA) AND PLATFORMS (INCLUDING: WINDOWS, LINUX, MAC OS X, SOLARIS, IRIX).</p> <p>VERY GOOD USE OF TRANSPORTATION SOFTWARE (E.G. DYNAMIT, MITSIMLAB, TRANSMODELER, AIMSUN, SATURN, VISSIM), STATISTICAL SOFTWARE (E.G. R, SPSS, STATA, BIOGEME, SST) AND GEOGRAPHIC INFORMATION SYSTEMS (E.G. TRANSCAD, QGIS, ARCVIEW)</p>
OTHER MEMBERSHIPS/ INTERESTS	<p>MIT CLUB OF GREECE – PRESIDENT OF THE BoD (2015-PRESENT), VICE-PRESIDENT OF THE BoD (2011-2015), SECRETARY OF THE BoD (2005-2011), MEMBER OF THE BOARD OF DIRECTORS (BoD) (1999-2001).</p> <p>MIT ENTERPRISE FORUM GREECE – CO-FOUNDER AND SECRETARY OF THE BOARD OF DIRECTORS (BoD) (2013-PRESENT)</p> <p>ATHENS COLLEGE ALUMNI CLUB (SAKA)</p> <p>MIT ALUMNI ASSOCIATION</p> <p>HELLENIC RED CROSS, MEMBER</p>
<b>ANNEXES</b>	<ol style="list-style-type: none"> <li>1. LIST OF SELECTED PROJECTS</li> <li>2. LIST OF SELECTED PUBLICATIONS</li> <li>3. REVIEWING RESPONSIBILITIES</li> </ol>

## ANNEX 1. List of selected projects

### National Technical University of Athens (NTUA)

1998	Participation in the technical team for the preparation of the Plan of Peripheral Development of the Ministry of Transport for the European Support Framework 2000-2008.
2000-2002	Participation in the research project «ADVISORS – Action for advanced Driver assistance and Vehicle control systems Implementation, Standardisation, Optimum use of the Road network and Safety» of the 5th Framework Programme for Research in Transport of the EU.
2004-2009	Participation in the research project «SAFETYNET – European Road Safety Observatory» of the 6th Framework Programme for Research in Transport of the EU.
2006-2008	Basic researcher and fellow of the research project «FLEXIBLETRAFFIC – Development of flexible traffic models that exploit emerging data collection technologies with the use of machine learning concepts », co-funded through the Marie-Curie programme of the EU.
2009	Main researcher in the research project «Reliability of traffic forecasts regarding the construction of new motorways in Greece».
2009	Main researcher in the research project: «Road safety improvements in the vicinity of school compounds in Athens» (sponsor: Municipality of Athens)
2010-2012	Participation in the research project «DACOTA – Road Safety Data, Collection, Transfer and Analysis» of the 7th Framework Programme for Research of the EU.
2009-2013	National representative and Management Committee member in the COST Action – TU 0903 Methods and Tools for Supporting the Use, Calibration and Validation of Traffic Simulation Models (WG3 and WG4 co-leader)
2010-2013	Principal Investigator (NTUA) for the research project «SustainCity – Micro-simulation for the prospective of sustainable cities in Europe» of the 7th Framework Programme for Research of the EU.
2010-2012	Principal Investigator for the research project «Investigation of dynamic on-line calibration algorithms' performance characteristics for large scale systems» sponsored by the NTUA Basic Research Programme.
2011-2013	Main researcher (NTUA) in the project: «Highway Design and Management: Curricular Reform for Russian Federation – Design and Implementation of Higher Education Master Courses in Russia», funded by the EU TEMPUS IV Programme.
2012-2015	Researcher in the project «DriverBRAIN – Performance of drivers with cerebral diseases at unexpected incidents», funded by the Greek National Excellence (ARISTEIA) Programme.
2012-2015	Researcher in the project “DISTRACT – Causes and impacts of driver distraction: a driving simulator study”, funded by the Greek Thales Research Programme.
2014-2016	Main researcher (NTUA) in the project: «Highway and Traffic Engineering: Curricular Reform for Mediterranean Area – HIT4MED», funded by the EU TEMPUS IV Programme.
2014-2015	Principal Investigator in the project: «EMPARCO – Effective Management of PARKing under COncstraints», funded by the Greek National Excellence-II (ARISTEIA-II) Programme.
2014-2017	National representative and Management Committee member in the COST Action – TU1305 Social Networks and Travel Behavior
2014-2015	Grant for the preparation of Traffic Flow Theory textbook (as ebook), to be used in several Greek universities for teaching related courses (within the Kallipos framework)

### Massachusetts Institute of Technology, Department of Civil and Environmental Engineering, Intelligent Transportation Systems Programme

1995 –1997 and 2001–2002	Participation in the research project: “A Deployable Real-Time Dynamic Traffic Assignment System” (Sponsor: Federal Highway Administration, FHWA)
2001-2003	Technical coordinator in the research project: “DynaMIT – ITS Study: Development of ITS Analysis Tools for Lower Westchester County – Phase I” (Sponsor: New York State Department of Transportation, NYSDOT)
2002-2004	Participation in the research project: “NGSIM – Next Generation Simulation Models” (Sponsor: Federal Highway Administration, FHWA)
2003-2005	Basic researcher in the research project: “NSF/USDOT Collaborative Proposal: Methodology for Calibration and Validation of Traffic Simulation Models” (Sponsor: National Science Foundation, NSF)
2003 –2005	Basic researcher in the research project: “Evaluation of the DynaMIT system in Los Angeles” (Sponsor: US Department of Transportation)
2003 –2005	Basic researcher in the research project: “Evaluation of the DynaMIT system in Hampton Roads, VA” (Sponsor: Federal Highway Administration, FHWA)
2003-2008	Main researcher in the research project: “DynaMIT – ITS Study: Development of ITS Analysis Tools for Lower Westchester County – Phase II” (Sponsor: New York State Department of Transportation, NYSDOT)

2011- Participation in the Future Urban Mobility cluster of projects in the SMART (Singapore-MIT Alliance for Research and Technology) initiative

Arsenal research, Transport telematics group, Vienna, Austria

2005-2006 Participation in the research project "INTRO – Intelligent Roads" of the 6th Framework Programme for Research in Transport of the EU.

Hellenic Institute of Transport (HIT), Centre for Research and Technology Hellas (CERTH)

2006 Participation in the research project «PROMIT: Promoting Innovative Intermodal Freight Transport» of the 6th Framework Programme for Research in Transport of the EU.

Aristotle University of Thessaloniki

2006-2008 Main researcher in the research project «CORELOG- Coordinated Regional Logistics» within the EU programme INTERREG IIIB CADSES.

2007-2008 Main researcher in the research project «MEDIGATE - Interconnections dans l'espace Medoc pour promouvoir le transport intermodal et l'intégration à travers les noeuds intermodaux» to within the EU programme INTERREG IIIB MEDOCC.

TREDIT S.A.

1999-2000 Participation in the research project "INTACT – Integrated Telematics for Advanced Communication in Transport" of the 4th Framework Programme for Research of the EU.

2006-2008 Scientific responsible for the research project «FREIGHTWISE – Management Framework for Intelligent Intermodal Transport» of the 6th Framework Programme for Research of the EU.

2006-2008 Scientific responsible for the research project «EFFORTS – Effective Operations in Ports» of the 6th Framework Programme for Research of the EU.

2007-2008 Scientific responsible for the research project «MOSES – Motorways of the Sea» of the 6th Framework Programme for Research of the EU.

2006-2008 Scientific responsible for the research project "Integration of fleet monitoring and safety technologies for the management of integrated transport supply changes in the liquid fuel sector" funded through the «Competitiveness» Programme of the General Secretariat for Research and Technology of the Ministry of Development (Greece).

2006-2007 Scientific responsible for the research project "Integrated systems for vehicle and cargo monitoring in intermodal transport" funded through the «Competitiveness» Programme of the General Secretariat for Research and Technology of the Ministry of Development (Greece).

2008 Scientific responsible for the research project «EURIDICE - European Inter-Disciplinary Research on Intelligent Cargo for Efficient, Safe and Environment-friendly Logistics» of the 7th Framework Programme for Research of the EU.

2007-2008 Participation in the project «The Study and Implementation of Intelligent Transport Systems and Development of a Geographic Information System» funded by the Ministry of Transport and Public Works (Cyprus)

IBI Group U.K. Ltd.

1999 Participation in the study for the determination of the impact of the relocation of the Athens International Airport to the commute of the airport workers.

1999-2000 Participation in the design, development and implementation of the Integrated Toll and Traffic Management System of the Attica Tollway.

2007-2008 Participation in the project «Feasibility Study on Deploying Advanced Technologies in Incident Management», funded by the Transport Department, The Government of the Hong Kong SAR.

Ecole Polytechnique Federale de Lausanne, Institute of Mathematics, Operations Research Group

2001 Participation in the research project: "Traffic management plan: pilot survey in Western Switzerland" (Sponsor: Swiss Federal Roads Office)

DENCO Ltd.

1997 Participation in the study for the forecast of traffic for the then-planned underwater tunnel under the Malliakos Gulf.



## ANNEX 2. List of selected publications (grouped, more recent in the top within group)

### A2.1. Theses

- 1.3. C. Antoniou, Online calibration for dynamic traffic assignment, PhD Thesis, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology, September 2004.
- 1.2. C. Antoniou. Demand estimation for dynamic traffic assignment. MS Thesis, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology, January 1997.
- 1.1. C. Antoniou. Development of a Geographical Information System for the management of road safety. Diploma Thesis, Department of Transportation Planning and Engineering, National Technical University of Athens, June 1995. (in Greek)

### A2.2. Books and book chapters

- 2.18. Antoniou, C., and I. Spyropoulou (2016). [Principles of Transportation Engineering and Simulation. Textbook developed within the Kallipos \(kallipos.gr\) initiative](#) (freely available in pdf and epub formats), in Greek (277 p.).
- 2.17. Antoniou, C., G. Yannis, E. Papadimitriou, and S. Lassarre (2015). Improving fatalities forecasting in times of recession in Europe. In OECD/IRTAD, Why does Road Safety Improve When Economic Times are Hard?, Research Report, International Transport Forum.
- 2.16. Papathanasopoulou, V. and C. Antoniou (2015). Simulation optimization of car-following models using flexible techniques. In N. D. Lagaros and M. Papadrakakis (eds), Engineering and Applied Sciences Optimization. Dedicated to the memory of Professor M.G. Karlaftis, Springer, pp. 87-106.
- 2.15. Antoniou, C. and N. Picard (2015). Urban sustainability and individual/household well-being, in A. Michelangeli (ed.), Quality of Life in Cities. Equity, Sustainable Development and Happiness from a Policy Perspective. Routledge, pp. 110-142.
- 2.14. Antoniou, C. (2014). Microsimulation, in M. Garrett (ed.), Encyclopedia of Transportation. Social Science and Policy. Sage Publications, Inc.
- 2.13. Antoniou, C. (2014). Traffic simulation, in M. Garrett (ed.), Encyclopedia of Transportation. Social Science and Policy. Sage Publications, Inc.
- 2.12. Antoniou, C. (2014). Highway safety, in M. Garrett (ed.), Encyclopedia of Transportation. Social Science and Policy. Sage Publications, Inc.
- 2.11. Proost, S., S. van der Loo, C. Antoniou and D. Efthymiou (2014). Indicators of sustainable development for microsimulation models, in R. Hurtubia, M. Bierlaire, P. Waddell and A. de Palma (eds.), Handbook on Integrated transport and land use modeling for sustainable cities, EPFL Press, Lausanne, pp. 293-306.
- 2.10. Antoniou, C. and N. Picard (2014). Econometric methods for land use microsimulation, in R. Hurtubia, M. Bierlaire, P. Waddell and A. de Palma (eds.), Handbook on Integrated transport and land use modeling for sustainable cities, EPFL Press, Lausanne, pp. 219-236.
- 2.9. Antoniou, C., J. Casas, H. Koutsopoulos and R. Liu (2014). Validation. In: W. Daamen, C. Buisson, S. Hoogendoorn (eds), Traffic Simulation and Data: Validation Methods and Applications, CRC Press.
- 2.8. Hoogendoorn, S., C. Antoniou, C., T. Schreiter, Y. Yuan, J. Barcelo, C. Buisson, V. Punzo and H. van Lint (2014). Data processing and enhancement techniques. In: W. Daamen, C. Buisson, S. Hoogendoorn (eds), Traffic Simulation and Data: Validation Methods and Applications, CRC Press.
- 2.7. Antoniou, C., J. Barcelo, M. Brackstone, H.B. Celikoglu, B. Ciuffo, V. Punzo, P. Sykes, T. Toledo, P. Vortisch and P. Wagner (2014), Traffic Simulation: Case for Guidelines, (M. Brackstone, V. Punzo, eds), JRC Scientific and Technical Research Report, EUR 26534 EN. Publications Office of the European Union, Luxembourg. ISBN 978-92-79-35578-3.
- 2.6. Antoniou, C., M. Ben-Akiva, and H. N. Koutsopoulos (2010). "Kalman Filter Applications for Traffic Management". In V. Kordic (ed.) "Kalman Filter". (ISBN: 978-953-307-094-0), INTECH, pp. 1-28.
- 2.5. Antoniou, C. Towards dynamic management and control of transport networks for effective emergency response. In "Prevention and management of natural disasters. The role of the surveying engineer". Special volume in memory of Prof. Petros Vythoulkas, NTUA, 2010 (in Greek).

2.4. M. Ben-Akiva, H.N. Koutsopoulos, T. Toledo, Q. Yang, C.F. Choudhury, C. Antoniou, and R. Balakrishna (2010). "Traffic Simulation with MITSIMLab". In J. Barcelo (ed.) "Fundamentals of traffic simulation". (ISBN: 978-1-4419-6141-9), Springer.

2.3. M. Ben-Akiva, H. N. Koutsopoulos, C. Antoniou and R. Balakrishna (2010). "Traffic Simulation with DynaMIT". In J. Barcelo (ed.) "Fundamentals of traffic simulation". (ISBN: 978-1-4419-6141-9), Springer.

2.2. C. Antoniou (2007). "Online calibration for dynamic traffic assignment. Theory, methods and application". VDM Verlag Dr. Müller. (ISBN: 978-3-8364-2141-6)

2.1. M. Ben-Akiva and C. Antoniou (2005). Predictive Traffic Information and Travel Time Reliability: DynaMIT Case Studies. In H. van Zuylen (ed.) "The reliability of traveling and the robustness of transport systems", TRAIL Research School.

### **A2.3. International journals**

3.69. Antoniou, C., G. Yannis, E. Papadimitriou, and S. Lassarre (accepted). Relating traffic fatalities to GDP in Europe on the long term, Accident Analysis and Prevention (accepted).

3.68. Pavlou, D., P. Papantoniou, E. Papadimitriou, S. Vardaki, G. Yannis, C. Antoniou, J. Golias, S.G. Papageorgiou (accepted). Which are the effects of driver distraction and brain pathologies on reaction time and accident risk? RSS2015 Special Issue of ATS - Advances in Transportation Studies, an International Journal (accepted).

3.67. Antoniou, C., J. Barceló, M. Breen, M. Bullejos, J. Casas, E. Cipriani, B. Ciuffo, T. Djukic, S. Hoogendoorn, V. Marzano, L. Montero, M. Nigro, J. Perarnau, V. Punzo, T. Toledo and H. van Lint (accepted). Towards a generic benchmarking platform for OD flows estimation/updating algorithms: design, demonstration and validation. Transportation Research Part C (accepted).

3.66. Efthymiou, D., and C. Antoniou (accepted). Modeling the propensity to join carsharing using hybrid choice models and mixed survey data. Transport Policy (accepted).

3.65. Antoniou, C., C. L. Azevedo, L. Lu, F. Pereira and M. Ben-Akiva (2015). W-SPSA in practice: Approximation of weight matrices and calibration of traffic simulation models. Transportation Research Part C: Emerging Technologies, Vol. 59, October, pp. 129-146.

3.64. Antoniou, C., V. Gikas, V. Papathanasopoulou, C. Danezis, A. Panagopoulos, I. Markou, H. Perakis, D. Efthymiou and G. Yannis (2015). Localization and driving behavior classification using smartphone sensors in the direct absence of GNSS. Transportation Research Record: Journal of the Transportation Research Board (accepted).

3.63. Papathanasopoulou, V., and C. Antoniou (2015). Towards data-driven car-following models. Transportation Research Part C, Vol. 55, pp. 496-509.

3.62. Hale, D.K, C. Antoniou, M. Brackstone, D. Michalaka, A. T. Moreno and K. Parikh (2015). Optimization-based assisted calibration of traffic simulation models. Transportation Research Part C, Vol. 55, pp. 100-115.

3.61. Lu, L., Y. Xu, C. Antoniou and M. Ben-Akiva (2015). An Enhanced SPSA Algorithm for the Calibration of Dynamic Traffic Assignment Models. Transportation Research Part C, 51, pp. 149-166.

3.60. Efthymiou, D., and C. Antoniou (2015). Investigating the impact of recession on transportation cost capitalization: a spatial analysis. Journal of Transport Geography, 42, pp. 1-9.

3.59. Spyropoulou, I. and C. Antoniou (2015). Determinants of driver response to variable message sign information in Athens. IET Intelligent Transportation Systems, 9(4), pp. 453-466.

3.58. Dupont, E., Commandeur, J. J., Lassarre, S., Bijleveld, F., Martensen, H., Antoniou, C., E. Papadimitriou, G. Yannis, E. Hermans, K. Perez, E. Santamarina-Rubio, D. S. Usami & Giustiniani, G. (2014). Latent risk and trend models for the evolution of annual fatality numbers in 30 European countries. Accident Analysis & Prevention, 71, 327-336.

3.57. Antoniou, C. and A. Polydoropoulou (2015). The value of privacy. Evidence from the use of mobile devices for traveler information systems. Journal of Intelligent Transportation Systems: Technology, Planning and Operations, 19(2), pp. 167-180.

3.56. Efthymiou, D., B. Farooq, M. Bierlaire and C. Antoniou (2014). Multidimensional indicators analysis for transport policy evaluation. Transportation Research Record: Journal of the Transportation Research Board, Vol. 2430, pp. 83-94.

3.55. Efthymiou, D., M. Kaziales, C. Antoniou and Y. Tyrinopoulos (2014). Measuring the Effects of Economic Crisis on User Perception of Public Transport Quality. Transportation Research Record: Journal of the Transportation Research Board, Vol. 2415, pp. 1-12.

- 3.54. Papadopoulou, M. and C. Antoniou (2014). Environmental impact assessment methodological framework for Liquefied Natural Gas terminal and transport network planning. *Energy Policy*, 68, pp. 306-319.
- 3.53. Dimoulas, S., B. Psarianos, C. Antoniou, and S. Vardaki (2014). Powered two-wheeler rider eye-height determination. *Transportation Letters*, 6(2), pp. 67-77.
- 3.52. Antoniou, C. (2012). Towards human-centred flood evacuation for cities under climate change. *Water Utility Journal*, 3, 37-46.
- 3.51. Pereira, F., C. Antoniou, J.A. Fargas and M. Ben-Akiva (2014). A meta-model for estimating error bounds in real-time traffic prediction systems. *IEEE Transactions in Intelligent Transportation Systems*, 15(3), pp. 1310-1322.
- 3.50. Tyrinopoulos, Y. and C. Antoniou (2014). Analysis of passengers' perception of public transport quality and performance. *International Journal of Information Systems and Supply Chain Management (IJISSCM)*, 7(1), 56-72.
- 3.49. Antoniou, C., E. Papadimitriou and G. Yannis (2014). Road safety forecasts in five European countries using structural time-series models. *Traffic Injury Prevention*, Volume 15, Issue 6, pp. 598-605.
- 3.48. Antoniou, C. and Y. Tyrinopoulos (2013). Factors affecting public transport use in touristic areas. *International Journal of Transportation*, 1(1), pp. 91-112.
- 3.47. Efthymiou, D., and C. Antoniou (2014). Measuring the effects of transportation infrastructure location on real estate prices and rents. Investigating the current impact of a planned metro line. *EURO Journal on Transportation and Logistics*, 3(3-4), pp. 179-294. (10.1007/s13676-013-0030-4).
- 3.46. Antoniou, C., H.N. Koutsopoulos and G.Yannis (2013). Dynamic Data-Driven Local Traffic State Estimation and Prediction. *Transportation Research Part C: Emerging Technologies*, Vol. 34, pp. 89-107.
- 3.45. Antoniou, C. (2014). A stated-preference study of the willingness-to-pay to reduce traffic risk in urban vs. rural roads. *European Transport Research Review*, 6(1), pp. 31-42 ( <http://dx.doi.org/10.1007/s12544-013-0103-3> )
- 3.44. Efthymiou, D., and C. Antoniou (2013). How do Transport Infrastructure and Policies Affect House Prices and Rents? Evidence from Athens, Greece. *Transportation Research Part A: Policy and Practice*, 52, 1–22. ( <http://dx.doi.org/10.1016/j.tra.2013.04.002> )
- 3.43. Efthymiou, D., C. Antoniou and P. Waddell (2013). Factors affecting the adoption of vehicle sharing systems by young drivers. *Transport Policy*, 29, pp. 64-73. ( <http://dx.doi.org/10.1016/j.tranpol.2013.04.009> )
- 3.42. Bergel, R., M. Debarh, C. Antoniou, and G. Yannis (2013). Explaining the road accident risk: weather effects. *Accident Analysis and Prevention*, 60, 456-465.
- 3.41. Antoniou, C., and G. Yannis (2013). State-space based analysis and forecasting of macroscopic road safety trends in Greece. *Accident Analysis and Prevention*, 60, 268-276.
- 3.40. Sarlas, G., V. Papathanasopoulou and Antoniou, C. (2013). A simulation-based analysis of road pricing prospects for Athens, Greece. *ASCE Journal of Urban Planning and Development*, 139(3), pp. 206–215. (doi: 10.1061/(ASCE)UP.1943-5444.0000145)
- 3.39. Antoniou, C., A. Kondyli, G.M. Lykogianni and E. Gyftodimos (2013). Exploratory assessment of the Limiting Extended Kalman filter properties. *Transport and Telecommunication*, 14(1), pp. 1-12.
- 3.38. Kladefiras, M. and C. Antoniou (2013). Simulation-based assessment of double-parking impacts on traffic and environmental conditions. *Transportation Research Record: Journal of the Transportation Research Board*, 2390, pp.121-130.
- 3.37. Antoniou, C. and G. Yannis (2013). Assessment of exposure proxies for macroscopic road safety prediction. *Transportation Research Record: Journal of the Transportation Research Board*, 2386, pp. 81-94.
- 3.36. Samoili, S., D. Efthymiou, C. Antoniou and A.-G. Dumont (2013). Investigation of Lane Flow Distribution on Hard Shoulder Running Freeways. *Transportation Research Record: Journal of the Transportation Research Board*, 2396, pp. 133-142.
- 3.35. Tyrinopoulos, Y. and C. Antoniou (2013). Factors affecting modal choice in urban mobility. *European Transport Research Review*, 5(1), pp. 27-39.
- 3.34. Antoniou, C., G. Yannis, E. Papadimitriou (2012). Macroscopic Traffic Safety Data Analysis And Prediction. *Journal of Transport and Shipping*, Vol. 5, pp. 97-116.
- 3.33. Commandeur, J.J.F., F. D. Bijleveldb, R. Bergel, C. Antoniou, G. Yannis, E. Papadimitriou (2013). On statistical inference in time series analysis of the evolution of road safety. *Accident Analysis and Prevention*, 60, 424-434.

- 3.32. Efthymiou, D., C. Antoniou and Y. Tyrinopoulos (2012). Spatially-aware optimal site selection. Method and application in a mobility center in Greece. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2276, pp. 146-155.
- 3.31. Antoniou, C., B. Psarianos and W. Brilon (2011). Induced traffic prediction inaccuracies as a source of traffic forecasting failure. *Transportation Letters: The International Journal of Transportation Research*, Vol. 3, Iss. 4, pp. 253-264.
- 3.30. Yannis, G., C. Antoniou and E. Papadimitriou (2011). Autoregressive nonlinear time-series modeling of traffic fatalities in Europe. *European Transport Research Review*, Volume 3, Number 3, 113-127, DOI: 10.1007/s12544-011-0055-4.
- 3.29. Antoniou, C., R. Balakrishna and H. N. Koutsopoulos (2011). A synthesis of emerging data collection technologies and their impact on traffic management applications. *European Transport Research Review*, Volume 3, Number 3, 139-148, DOI: 10.1007/s12544-011-0058-1.
- 3.28. Antoniou, C., Koutsopoulos, H. N., Ben-Akiva, M. and Chauhan, A. S. (2011) Evaluation of diversion strategies using dynamic traffic assignment, *Transportation Planning and Technology*, 34: 3, 199 — 216.
- 3.27. Yannis, G., C. Antoniou, E. Papadimitriou and D. Katsochis (2011). When may road fatalities start to decrease? *Journal of Safety Research*, 42(1), pp. 17-25.
- 3.26. Antoniou, C., R. Balakrishna, H.N. Koutsopoulos and M. Ben-Akiva (2011). Calibration methods for simulation-based dynamic traffic assignment systems. *International Journal of Modeling and Simulation*, Vol. 31, No. 3, pp. 227-233.
- 3.25. Sundaram, S., H. N. Koutsopoulos, M. Ben-Akiva, C. Antoniou and R. Balakrishna (2011). Simulation-based Dynamic Traffic Assignment for Short-Term Planning Applications. *Simulation Modelling Practice and Theory*, Vol. 19, pp. 450-462.
- 3.24. B. Heilman, N.-E. El Faouzi, O. de Mouzon, N. Hainitz, H. Koller, C. Antoniou (2011). Estimating Motorway Network Performance And Its Reliability From Electronic Toll Collection Data. *Computer-Aided Civil and Infrastructure Engineering*, 26, pp. 451-463.
- 3.23. G. Yannis, C. Antoniou, S. Vardaki and G. Kanellaidis (2010). Older drivers' perception and acceptance of in-vehicle devices for traffic safety and traffic efficiency. *ASCE Journal of Transportation Engineering*, Vol. 136, No. 5, pp. 472-479.
- 3.22. A. Tsirimpa, A. Polydoropoulou and C. Antoniou. Development of a Latent Variable Model to Capture the Impact of Risk Aversion on Travelers' Switching Behavior. *Journal of Choice Modeling*, Vol. 3, Issue 1, pp. 127-148, 2010.
- 3.21. V.Vaze, C. Antoniou, Y.Wen and M. Ben-Akiva. Calibration of Dynamic Traffic Assignment Models with Point-to-Point Traffic Surveillance. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2090, pp. 1-9, 2009.
- 3.20. R. Balakrishna, Y. Wen, M. Ben-Akiva and C. Antoniou. Simulation-Based Framework for Transportation Network Management for Emergencies. *Transportation Research Record: Journal of the Transportation Research Board*. Number 2041, pp. 80-88, 2008.
- 3.19. Y. Tyrinopoulos and C. Antoniou. Public transit user satisfaction: Variability and policy implications. *Transport Policy*, Volume 15, Issue 4, pp. 260-272, July 2008.
- 3.18. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. Non-linear Kalman Filtering Algorithms for On-line Calibration of Dynamic Traffic Assignment Models. *IEEE Transactions on Intelligent Transportation Systems*, Volume 8, Issue 4, Page(s):661 - 670, Dec. 2007.
- 3.17. G. Yannis, C. Antoniou and E. Papadimitriou. Road casualties and enforcement: Distributional assumptions of serially correlated count data. *Traffic Injury Prevention*, 8:3, pp. 300 - 308, 2007.
- 3.16. R. Balakrishna, C. Antoniou, M. Ben-Akiva, H. N. Koutsopoulos and Y. Wen. Calibration of Microscopic Traffic Simulation Models: Methods and Application. *Transportation Research Record: Journal of the Transportation Research Board*. Number 1999, pp. 198-207, 2007.
- 3.15. C. Antoniou, E. Matsoukis, and P. Roussi. A methodology for the estimation of value-of-time using state-of-the-art econometric models. *Journal of Public Transportation*, Volume 10, No. 3, pp. 1-19, 2007.
- 3.14. G. Yannis and C. Antoniou. A mixed logit model for the sensitivity analysis of Greek drivers' behavior towards enforcement for road safety. *European Transport/Europei Transporti*, No. 37, pp. 62-77, 2007.
- 3.13. G. Yannis, E. Papadimitriou, and C. Antoniou. Impact of enforcement on traffic accidents and fatalities: A multivariate multilevel analysis. *Safety Science*, 46, pp. 738-750, 2008.
- 3.12. G. Yannis, E. Papadimitriou, and C. Antoniou. Multilevel modeling for the regional effect of enforcement on road accidents. *Accident Analysis and Prevention*, 39, pp. 818-825, 2007.

- 3.11. A. Tsimpa, A. Polydoropoulou, and C. Antoniou. Development of a Mixed MNL Model to Capture Commuters' Response to Travel Information. *Intelligent Transportation Systems Journal*, 11(2):1-11, 2007.
- 3.10. G. Yannis, J. Golias, and C. Antoniou. Effects of Urban Delivery Restrictions on Traffic Movements. *Transportation Planning and Technology*, Vol. 29, No. 4, pp. 295-311, August 2006
- 3.9. C. Antoniou and H. N. Koutsopoulos. Estimation of Traffic Dynamics Models with Machine Learning Methods. *Transportation Research Record: Journal of the Transportation Research Board*, No. 1965, pp. 103-111, Washington D.C., 2006.
- 3.8. D. Tsamboulas and C. Antoniou. Allocating integrated fare revenue to multiple public transit operators. *Transportation Research Record: Journal of the Transportation Research Board*, No. 1986, pp. 29-37, Washington D.C., 2006.
- 3.7. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. Dynamic Traffic Demand Prediction Using Conventional and Emerging Data Sources. *IEE Proceedings Intelligent Transport Systems*, Vol. 153, No. 1, pp. 97-104, March 2006.
- 3.6. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. On-Line Calibration of Traffic Prediction Models. *Transportation Research Record: Journal of the Transportation Research Board* 1934, pp. 235-245, Washington D.C., 2005.
- 3.5 G. Yannis and C. Antoniou. Integration of Weigh-in-Motion Technologies in Road Infrastructure Management. *Journal of the Institute of Transportation Engineers (ITE)*, 75(1), pp. 39-43, January 2005.
- 3.4. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. Incorporating Automated Vehicle Identification data into Origin-Destination Estimation. *Transportation Research Record* 1882, pp 37-44, Washington D.C., 2004.
- 3.3 J. Golias, C. Antoniou and G. Yannis. A methodology for the estimation of traffic and related impacts of advanced driver assistance systems. *Journal of Intelligent Transportation Systems*, Vol. 7, No. 3-4, 261-277, July-December 2002.
- 3.2. J. Golias, G. Yannis, C. Antoniou. A classification of driver assistance systems according to their impact on road safety and traffic efficiency. *Transport Reviews*, Vol. 22, No. 2, pp. 179-196, 2002.
- 3.1. J. Golias, G. Yannis, C. Antoniou. Impact of advanced driver assistance systems on urban traffic network conditions. *European Journal of Transport and Infrastructure Research*, special issue on advanced vehicle control and safety systems, Vol. 1, No. 3, 277-289, 2001.

#### **A2.4. Refereed conference proceedings**

- 4.163. Gupta, S., R. Seshadri, B. Atasoy, F. Pereira, S. Wang, V-A Vu, G. Tan, W. Dong, Y. Lu, C. Antoniou and M. Ben-Akiva (2016). Real time optimization of network control strategies in DynaMIT 2.0. *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016, Washington, D.C.
- 4.162. Psarianos, B., C. Antoniou and I. Mavride (2016). Investigating the impact of night-time on operating speeds in two-lane rural roads. *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016, Washington, D.C.
- 4.161. Dimitriou, L., D. Efthymiou and C. Antoniou (2016). Understanding the impact of accessibility and weather on emergency unit reaction times. *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016, Washington, D.C.
- 4.160. Armouti, I., and C. Antoniou (2016). Factors affecting the use of Child Car Seats for nursery school travel. A study in Athens. *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016, Washington, D.C.
- 4.159. Hale, D., C. Antoniou, B. Park, J. Ma, L. Zhang and A. Paz (2016). An investigation of SPSA for Signal Timing Optimization at Isolated Intersections. *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016, Washington, D.C.
- 4.158. Kotopouli, A., K. Kepaptsoglou and C. Antoniou (2016). Optimal locations of electric taxi charging stations: Model and Application. *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016, Washington, D.C.
- 4.157. Kouskoulis, G. and C. Antoniou (2015). "Influencing factors of pedestrian velocity under constraints", *Proceedings of the 7th International Congress on Transport Research in Greece*, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.156. Markou, I., C. Antoniou, M. Tsakiri and A. Georgopoulos (2015). "Applications of terrestrial laser scanning in transport", *Proceedings of the 7th International Congress on Transport Research in Greece*, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.

- 4.155. Chaniotakis, E., C. Antoniou and E. Mitsakis (2015). "Systematic data collection from social networking services for use in transport applications", Proceedings of the 7th International Congress on Transport Research in Greece, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.154. Perakis, H., A. Mpimis, C. Danezis, V. Gikas, and C. Antoniou (2015). "Evaluation of inertial sensors (INS/GYRO) in modern smartphones in navigation applications: Preliminary pilots and results", Proceedings of the 7th International Congress on Transport Research in Greece, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.153. Spiliopoulou, C. and C. Antoniou (2015). "Peak Car Effects on Scheme Appraisal", Proceedings of the 7th International Congress on Transport Research in Greece, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.152. Dimitriou, L., D. Efthymiou and C. Antoniou (2015). "Spatial road safety modeling leveraging "crowd-sourced" publicly available geographic data", Proceedings of the 7th International Congress on Transport Research in Greece, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.151. Papathanasopoulou V., I. Markou, C. Antoniou, V. Gikas, A. Mpimis, H. Perakis and G. Yannis (2015). "Efficient management of parking under constraints", Proceedings of the 7th International Congress on Transport Research in Greece, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.150. Kostovasilis, M., and C. Antoniou (2015). "Investigation of evacuation effectiveness using simulation and all-at-once sensitivity analysis", Proceedings of the 7th International Congress on Transport Research in Greece, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.149. Armouti I., C. Antoniou, and G. Yannis (2015). "How does socio-economic status affect the use of CRS and seat belts? Preliminary results from a study in Athens", Proceedings of the 7th International Congress on Transport Research in Greece, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.148. Kostovasilis, K. and C. Antoniou (2015). "Towards a modern estimate of the "value of preventing a fatality" in road crashes in Greece", Proceedings of the 7th International Congress on Transport Research in Greece, Hellenic Institute of Transportation Engineers, Hellenic Institute of Transport, Athens, November 2015.
- 4.147. Antoniou, C., P. Papantoniou, E. Papadimitriou, D. Pavlou, G. Yannis and J. Golias (2015). Cell phone use and drivign performance of different age groups. Proceedings of the 2015 Road Safety and Simulation International Conference, October 6-8, Orlando, Florida.
- 4.146. Pavlou, D., P. Papantoniou, E. Papadimitriou, S. Vardaki, G. Yannis, C. Antoniou, J. Golias and S. Papageorgiou (2015). In-vehicle distraction and brain pathologies: Effects on reaction time and accident probability. Proceedings of the 2015 Road Safety and Simulation International Conference, October 6-8, Orlando, Florida.
- 4.145. Kaisar, E., D. Philips, C. Antoniou, G. Laffitte and C. Harvey (2015). Simulation based evaluation for operation and safety of mini-roundabouts with low-volume unsignalized intersections. Proceedings of the 2015 Road Safety and Simulation International Conference, October 6-8, Orlando, Florida.
- 4.144. Pouloupoulou, M., I. Spyropoulou, and C. Antoniou (2015). Parameters affecting professional driver response to VMS messages. 18th IEEE International Conference on Intelligent Transporttion Systems, September 15-18, Gran Canaria.
- 4.143. Dimitriou, L., C. Antoniou and S. Christodoulou (2015). Monitoring Social Networks Formation and Information Velocity for Cases of Airlines' Crashes. 18th IEEE International Conference on Intelligent Transporttion Systems, September 15-18, Gran Canaria.
- 4.142. Yang, L., F. C. Pereira, R. Seshadri, A. O'Sullivan, C. Antoniou and M. Ben-Akiva (2015). DynaMIT2.0: Architecture Design and Preliminary Results on Real-time Data Fusion for Traffic Prediction and Crisis Management. 18th IEEE International Conference on Intelligent Transporttion Systems, September 15-18, Gran Canaria.
- 4.141. Chaniotakis, E. and C. Antoniou (2015). Use of Geotagged Social Media in Urban Settings: Empirical Evidence on its Potential from Twitter. 18th IEEE International Conference on Intelligent Transporttion Systems, September 15-18, Gran Canaria.
- 4.140. Hale, D.K., C. Antoniou, B. B. Park, J. Ma, L. Zhang and A. Paz (2015). An Investigation of SPSA for Signal Timing Optimization at Isolated Intersections. 18th IEEE International Conference on Intelligent Transporttion Systems, September 15-18, Gran Canaria.
- 4.139. Kostic, B., G. Gentile and C. Antoniou (2015). An Aggregate Approach for the Calibration of Time-dependent Demand for Dynamic Traffic Assignment Models using SPSA Algorithm. 4th hEART Symposium (European Association for Research in Transportation - hEART), DTU, Denmark, 8-10 September, 2015.
- 4.138. Papathanasopoulou, V., I. Markou, and C. Antoniou (2015). On-line calibration of car-following models exploiting input parameter correlation. 4th hEART Symposium (European Association for Research in Transportation - hEART), DTU, Denmark, 8-10 September, 2015.

- 4.137. Chaniotakis, E., C. Antoniou and E. Mitsakis (2015). Data for Leisure Travel Demand from Social Media. 4th hEART Symposium (European Association for Research in Transportation - hEART), DTU, Denmark, 8-10 September, 2015.
- 4.136. Antoniou, C., C. L. Azevedo, L. Lu, F. Pereira and M. Ben-Akiva (2015). W-SPSA in practice: Approximation of weight matrices and calibration of traffic simulation models. Transportation Research Procedia, Volume 7, 2015, Pages 233–253, 21st International Symposium on Transportation and Traffic Theory Kobe, Japan, 5-7 August, 2015.
- 4.135. Papantoniou P., Antoniou C., Yannis G., Papadimitriou E., Pavlou D., Golias J., "How does distracted driving affect reaction time of older drivers?", Proceedings of the 14th international conference on mobility and transport for elderly and disabled persons, University of Lisbon, Lisbon, July 2015.
- 4.134. Yannis G., Papantoniou P., Papadimitriou E., Pavlou D., Antoniou C., Golias J., "Assessing driving behaviour in the elderly: methodological issues", Proceedings of the 14th international conference on mobility and transport for elderly and disabled persons, University of Lisbon, Lisbon, July 2015.
- 4.133. Armouti I. and C. Antoniou (2015), "How does socio-economic status affect mobility patterns of families with pre-school children?", Proceedings of the The 2nd International Conference on "Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions", Porto Heli, Peloponnese, Greece, 22-26 June 2015.
- 4.132. Markou, I., V. Papathanasopoulou and C. Antoniou (2015). A demonstration of distribution-based calibration, Proceedings of Models and Technologies for Intelligent Transportation Systems (MT-ITS), Budapest, 3-5, June 2015.
- 4.131. Markou, I. and C. Antoniou (2015). Developing insight into effective SPSA parameters through sensitivity analysis, Proceedings of Models and Technologies for Intelligent Transportation Systems (MT-ITS), Budapest, 3-5, June 2015.
- 4.130. Pitsiladis, G., D. Papanikolaou, A.D. Panagopoulos and C. Antoniou (2015). "Vehicle-to-vehicle communication: End-to-end performance evaluation in dense propagation environments", 9th European Conference on Antennas and Propagation, pp.1-5, April 13-17, Lisbon, Portugal.
- 4.129. Kouskoulis, G., and C. Antoniou (2015). "Determination of parameters affecting safe pedestrian movement via microscopic simulation", Proceedings of the 6th Pan-hellenic Road Safety Conference, Hellenic Institute of Transportation Engineers, National Technical University of Athens, Athens, March 2015.
- 4.128. Papantoniou P., Antoniou C., Papadimitriou E., Yannis G., Golias J. (2015), "Exploratory analysis of the effect of distraction on driving behaviour through a driving simulator experiment", Proceedings of the 6th Pan-hellenic Road Safety Conference, Hellenic Institute of Transportation Engineers, National Technical University of Athens, Athens, March 2015.
- 4.127. Vardaki S., Yannis G., Antoniou C., Pavlou D., Beratis I., Andronas N., Papageorgiou S. (2015), "Investigation of the relationship between working memory and Parkinson's disease in a driving simulator", Proceedings of the 6th Pan-hellenic Road Safety Conference, Hellenic Institute of Transportation Engineers, National Technical University of Athens, Athens, March 2015.
- 4.126. Antoniou C., Yannis G., Papadimitriou E., Lassarre S., Commandeur J., Bijleveld F., Dupont E. (2015), "Forecasting the number of road traffic fatalities in Greece", Proceedings of the 6th Pan-hellenic Road Safety Conference, Hellenic Institute of Transportation Engineers, National Technical University of Athens, Athens, March 2015.
- 4.125. Armouti I., Antoniou C., Yannis G. (2015), "Safety Practices of Nursery School Travel: Preliminary Results from Ilioupoli", Proceedings of the 6th Pan-hellenic Road Safety Conference, Hellenic Institute of Transportation Engineers, National Technical University of Athens, Athens, March 2015.
- 4.124. Antoniou, C., V. Gikas, V. Papathanasopoulou, C. Danezis, A. Panagopoulos, I. Markou, H. Perakis, D. Efthymiou and G. Yannis (2015). Localization and driving behavior classification using smartphone sensors in the direct absence of GNSS. Proceedings of the 94th Annual Meeting of the Transportation Research Board, January 2015, Washington, D.C.
- 4.123. Vardaki, S., G. Yannis, C. Antoniou, D. Pavlou, I. Beratis and S. Papageorgiou (2015). Do simulator measures improve identification of older drivers with MCI? Proceedings of the 94th Annual Meeting of the Transportation Research Board, January 2015, Washington, D.C.
- 4.122. Nagarajan, S. and C. Antoniou (2015). Framework for Automatic Extraction of Road Features from Multi-Sensor Data. Proceedings of the 94th Annual Meeting of the Transportation Research Board, January 2015, Washington, D.C.
- 4.121. Kladeftiras, G. and C. Antoniou (2015). Social networks' impact on carpooling systems performance: Privacy vs. efficiency. Proceedings of the 94th Annual Meeting of the Transportation Research Board, January 2015, Washington, D.C.
- 4.120. Hale, D.K., C. Antoniou, M. Brackstone, D. Michalaka, A. T. Moreno and K. Parikh (2015). Comparison of Optimization Methods for Assisted Calibration of Traffic Micro-Simulation. Proceedings of the 94th Annual Meeting of the Transportation Research Board, January 2015, Washington, D.C.

- 4.119. Milakis D., D. Efthymiou and C. Antoniou (2015). Quasi-longitudinal analysis of links between built environment, travel attitudes and travel behavior: a case of Greeks relocating from US to Greece. Proceedings of the 94th Annual Meeting of the Transportation Research Board, January 2015, Washington, D.C.
- 4.118. Pavlou D., E. Papadimitriou, C. Antoniou, P. Papantoniou, G. Yannis, J. Golias and S.G. Papageorgiou (2015). Driving behaviour of drivers with mild cognitive impairment and Alzheimer's disease: A driving simulator study. Proceedings of the 94th Annual Meeting of the Transportation Research Board, January 2015, Washington, D.C.
- 4.117. Vardaki S., Yannis G., Antoniou C., "Exploring the Association between Working Memory and Parkinson's Disease in a Driving Simulator", Proceedings of the International interdisciplinary conference 'Ageing and Safe Mobility', Bergisch-Gladbach, Germany, November 2014.
- 4.116. Pavlou D., Papadimitriou E., Vardaki S., Antoniou C., Papantoniou P., Yannis G., Golias J., Beratis I., Economou A., Papageorgiou S.G., "Assessment of driving performance of drivers with brain pathologies in urban roads, using a driving simulator", Proceedings of the International Interdisciplinary Conference: Ageing and Safe Mobility, BAST, Bergisch-Gladbach, Germany, November 2014.
- 4.115. Papantoniou, P., C. Antoniou, E. Papadimitriou, D. Pavlou, G. Yannis, and J. Golias (2014). Is distracted driving performance affected by age? First findings from a driving simulator study. International Interdisciplinary Conference: Ageing and Safe Mobility, BAST, Bergisch-Gladbach, Germany, 27-28/11/2014.
- 4.114. Antoniou, C., V. Papathanasopoulou, V. Gikas, T. Mpimis, I. Markou and H. Perakis (2014). Monitoring indoor driver behavior using opportunistic smartphone sensor data. ITS2014 - ITS and Smart Cities, Patras, November 19-21, 2014.
- 4.113. Psarianos, B., C. Antoniou and N. Kotsikou (2014). Simulation-based assessment of access management implementation schemes. ACE 2014. 11th International Congress on Advances in Civil Engineering, Istanbul, Turkey, 21-25 October, 2014.
- 4.112. Antoniou, C., V. Gikas, V. Papathanasopoulou, T. Mpimis, I. Markou and H. Perakis (2014). Towards distribution-based calibration for traffic simulation. 17th International IEEE Conference on Intelligent Transportation Systems, Qingdao, China, October 8-11, 2014.
- 4.111. Antoniou, C., V. Papathanasopoulou, V. Gikas, C. Danezis and H. Perakis (2014). Classification of driving characteristics using smartphone sensor data, hEART 2014: 3rd Symposium of the European Association for Research in Transportation, Leeds, UK, September 10-12, 2014.
- 4.110. Papathanasopoulou, V. and C. Antoniou (2014). Simulation optimization of car-following models using flexible models. Opt-i: 1st International Conference on Engineering and Applied Sciences Optimization, Kos, Greece, 4-6 June 2014.
- 4.109. Hale, D.K., C. Antoniou, M. Brackstone, D. Michalaka, A. T. Moreno and K. Parikh (2014). Comparison of optimization methods for assisted calibration of traffic micro-simulation. Opt-i: 1st International Conference on Engineering and Applied Sciences Optimization, Kos, Greece, 4-6 June 2014.
- 4.108. Efthymiou, D., M. Kaziales, C. Antoniou and Y. Tyrinopoulos (2014). Measuring the Effects of Economic Crisis on User Perception of Public Transport Quality Proceedings of the 93rd Annual Meeting of the Transportation Research Board, January 2014, Washington, D.C.
- 4.107. Efthymiou, D. and C. Antoniou (2014). Modeling the propensity to join carsharing using hybrid choice and latent variable models and mixed internet/paper survey data. Proceedings of the 93rd Annual Meeting of the Transportation Research Board, January 2014, Washington, D.C.
- 4.106. Antoniou, C. and A. Polydoropoulou (2014). How likely are travelers to give up information in exchange for better user information services? Proceedings of the 93rd Annual Meeting of the Transportation Research Board, January 2014, Washington, D.C.
- 4.105. Efthymiou, D., B. Farooq, M. Bierlaire and C. Antoniou (2014). Multidimensional indicators analysis for transport policy evaluation. Proceedings of the 93rd Annual Meeting of the Transportation Research Board, January 2014, Washington, D.C.
- 4.104. Samoili, S., D. Efthymiou, C. Antoniou and A-G Dumont (2014). A multidimensional analysis of hard shoulder running systems. Proceedings of the 93rd Annual Meeting of the Transportation Research Board, January 2014, Washington, D.C.
- 4.103. Antoniou, C., B. Ciuffo, L. Montero, J. Casas, J. Barcelo, E. Cipriani, T. Djukic, V. Marzano, M. Nigro, M. Bullejos, J. Perarnau, M. Breen, V. Punzo, and T. Toledo (2014). A framework for the benchmarking of OD estimation and prediction algorithms. Proceedings of the 93rd Annual Meeting of the Transportation Research Board, January 2014, Washington, D.C.
- 4.102. Efthymiou, D., B. Farooq, M. Bierlaire and C. Antoniou (2013). A multidimensional analysis of agent-based policy evaluation indicators. hEART2013 - 2nd Symposium of the European Association for Research in Transportation, 4-6 September, Stockholm, Sweden.



- 4.101. Montela, A., C. Antoniou, H. Farah, H.N. Koutsopoulos, A. Nissan and B. Psarianos (2013). Highway safety training within the international master course Highway Design and Management. RSS2013 - International Conference on Road Safety and Simulation, October 2013, Rome, Italy.
- 4.100. G. Yannis, S.G. Papageorgiou, A. Economou, E. Papadimitriou, S. Vardaki, P. Papantoniou, D. Pavlou, J. Golias, N. Andronas, A. Liozidou, I. Beratis, D. Kontaxopoulou, S. Fragkiadaki, C. Antoniou, I. Papatriantafyllou (2013). Design of a Large Driving Simulator Experiment on Performance of Drivers with Cerebral Diseases. RSS2013 - International Conference on Road Safety and Simulation, October 2013, Rome, Italy.
- 4.99. Efthymiou, D. and E. Derebouka and C. Antoniou (2013). Factors of acceptance of car-sharing systems by Greek travelers. 6th Conference on Transportation Research, October 2013, Thessaloniki, Greece (in Greek).
- 4.98. Kladeftiras, M. and C. Antoniou (2013). Assessment of impacts of the reduction of parking violations with the use of simulation. 6th Conference on Transportation Research, October 2013, Thessaloniki, Greece (in Greek).
- 4.97. Antoniou, C., G. Yannis and D. Katsochis (2013). Impact of meteorological parameters on the number of injury accidents. Proceedings of the 13th World Conference on Transport Research (WCTR), July 15-18, 2013 – Rio de Janeiro, Brazil.
- 4.96. Samoili, S., Efthymiou, D., C. Antoniou and A-G Dumont (2013). Short-term prediction models and calibration for managed lanes. Proceedings of the 13th Swiss Transport Research Conference, Monte Verita/Ascona, April 24-26, 2013
- 4.95. Efthymiou, D., R. Hurtubia, M. Bierlaire and C. Antoniou (2013). The Integrated Land-Use and Transport Model of Brussels. Proceedings of the 13th Swiss Transport Research Conference, Monte Verita/Ascona, April 24-26, 2013
- 4.94. Efthymiou, D., B. Farooq, M. Bierlaire and C. Antoniou (2013). Agent-based indicators analysis in the context of policy evaluation. Proceedings of the 13th Swiss Transport Research Conference, Monte Verita/Ascona, April 24-26, 2013
- 4.93. Samoili, S., D. Efthymiou, C. Antoniou and A.-G. Dumont (2013). Short-term lane flow distribution forecasting in hard shoulder running freeways. Proceedings of Optimum 2013 - International Symposium on Recent Advances in Transport Modeling, Kingscliffe NSW, Australia, April 21-23, 2013.
- 4.92. Antoniou, C., E. Papadimitriou and G. Yannis (2013). Road safety forecasts in five European countries using structural time-series models. Proceedings of the 92nd Annual Meeting of the Transportation Research Board, January 2013, Washington, D.C.
- 4.91. Antoniou, C. and G. Yannis (2013). Assessment of exposure proxies for macroscopic road safety prediction. Proceedings of the 92nd Annual Meeting of the Transportation Research Board, January 2013, Washington, D.C.
- 4.90. Dimoulas, S., B. Psarianos, C. Antoniou and S. Vardaki (2013). Powered two-wheeler rider eye-height determination. Proceedings of the 92nd Annual Meeting of the Transportation Research Board, January 2013, Washington, D.C.
- 4.89. Antoniou, C. and Y. Tyrinopoulos (2013). Understanding public transport use in areas with seasonal variations of transport demand. Proceedings of the 92nd Annual Meeting of the Transportation Research Board, January 2013, Washington, D.C.
- 4.88. Kladeftiras, M. and C. Antoniou (2013). Simulation-based assessment of double-parking impacts on traffic and environmental conditions. Proceedings of the 92nd Annual Meeting of the Transportation Research Board, January 2013, Washington, D.C.
- 4.87. Samoili, S., D. Efthymiou, C. Antoniou and A.-G. Dumont (2013). Lane flow distribution investigation of hard shoulder running freeways. Proceedings of the 92nd Annual Meeting of the Transportation Research Board, January 2013, Washington, D.C.
- 4.86. Kamargianni, M., A. Polydoropoulou and C. Antoniou (2012). Attitudes and perceptions of Greek high-school students as road users. Proceedings of the 5th Panhellenic Road Safety Conference, Volos, October 2012
- 4.85. Efthymiou, D. and C. Antoniou (2012). Leveraging crowd-sourced road defect information for road quality assessment. Proceedings of the 5th Panhellenic Road Safety Conference, Volos, October 2012
- 4.84. Antoniou, C., M. Tsakiri and G. Yannis (2012). Road safety improvements in junctions using 3D laser scanning. Proceedings of the 5th Panhellenic Road Safety Conference, Volos, October 2012
- 4.83. Antoniou, C., G.M. Lykogianni, E. Gyftodimos and A. Kondyli (2012). A preliminary exploration of the Limiting Extended Kalman gain matrix properties. Presented at the 12th Reliability and Statistics Conference (RelStat 2012), Riga, Latvia, October 2012
- 4.82. Prionisti, E. and C. Antoniou (2012). Sensitivity Analysis of Driver Behavior under Emergency Conditions. Proceedings of the 15th International IEEE Annual Conference on Intelligent Transportation Systems, September 16-19, Anchorage, Alaska, USA

- 4.81. Efthymiou, D. and C. Antoniou (2012). How does transport infrastructure affect dwelling prices in Athens? Proceedings of the 1st European Symposium on Quantitative Methods in Transportation Systems, September 4-7, Lausanne, Switzerland.
- 4.80. Efthymiou, D. and C. Antoniou (2012). Use of social media for transport data collection. *Procedia - Social and Behavioral Sciences*, Volume 48, 2012, Pages 775-785.
- 4.79. Spiliopoulou, C. and C. Antoniou (2012). Analysis of illegal parking behavior in Greece. *Procedia - Social and Behavioral Sciences*, Volume 48, 2012, Pages 1622-1631.
- 4.78. Antoniou, C. and G. Yannis (2012). State-space based analysis and forecasting of macroscopic road safety trends in Greece. *Procedia - Social and Behavioral Sciences*, Volume 48, 2012, Pages 1589-1598.
- 4.77. Efthymiou, D., C. Antoniou, Y. Tyrinopoulos and E. Mitsakis (2012). Spatial exploration of effective electric vehicle infrastructure location. *Procedia - Social and Behavioral Sciences*, Volume 48, 2012, Pages 765-774.
- 4.76. Yannis, G., C. Antoniou, P. Evgenikos, P. Papantoniou and A. Kirk (2012). Characteristics and causes of power two wheeler accidents in Europe. *Procedia - Social and Behavioral Sciences*, Volume 48, 2012, Pages 1535-1544.
- 4.75. Kondyli, A., I. Spyropoulou, C. Antoniou and B. Psarianos (2012). Investigation of traffic flow characteristics in freeways under congested conditions. Proceedings of the 3rd Pan-Hellenic Highway Engineering Conference, Athens, February (in Greek).
- 4.74. Antoniou, C., G. Yannis and P. Evgenikos (2012). Comparative analysis of road safety parameters on European motorways. Proceedings of the 3rd Pan-Hellenic Highway Engineering Conference, Athens, February (in Greek).
- 4.73. Psarianos, B. and C. Antoniou (2012). Operating speed in modern highway engineering and its perspective. Proceedings of the 3rd Pan-Hellenic Highway Engineering Conference, Athens, February (in Greek).
- 4.72. Efthymiou, D., C. Antoniou and Y. Tyrinopoulos (2012). Spatially-aware optimal site selection. A method and an application in a mobility center in Greece. Proceedings of the 91st Annual Meeting of the Transportation Research Board, January 2012, Washington, D.C.
- 4.71. Antoniou, C. and M. Tsakiri (2012). 3D laser scanning as a tool for modern road design. A methodology and applications in intersection safety analysis. Proceedings of the 91st Annual Meeting of the Transportation Research Board, January 2012, Washington, D.C.
- 4.70. Efthymiou, D., C. Antoniou and P. Waddell (2012). Which factors affect the willingness to join vehicle sharing systems? Proceedings of the 91st Annual Meeting of the Transportation Research Board, January 2012, Washington, D.C.
- 4.69. Antoniou, C. and K. Kostovasilis (2012). Can external stimuli affect the perceived value of statistical life? Proceedings of the 91st Annual Meeting of the Transportation Research Board, January 2012, Washington, D.C.
- 4.68. Efthymiou, D. and C. Antoniou (2011). Transport telematics applications for car- and bike-sharing systems, Proceedings of ITS2011: Intelligent Transportation Systems, 3-4 October, 2011, Patras, Greece.
- 4.67. Antoniou, C., M. Ben-Akiva and H.N. Koutsopoulos (2011). Practical considerations for on-line calibration of traffic simulation models, Proceedings of ITS2011: Intelligent Transportation Systems, 3-4 October, 2011, Patras, Greece.
- 4.66. Picard, N. and C. Antoniou (2011). Econometric guidance for developing UrbanSim models. First lessons from the SustainCity project. Proceedings of the 51st European Congress of the Regional Science Association International, 30th August - 3rd September 2011, Barcelona, Spain.
- 4.65. Antoniou, C. and K. Papoutsis (2011). Investigation of Greek driver behavior during the approach to suburban un-signalized intersections. Proceedings of the 1<sup>st</sup> International Conference on Access Management, Athens, Greece, June 2011.
- 4.64. Antoniou, C., G. Yannis and P. Evgenikos, J. Knowles, J. Broughton and A. Kirk (2011). A critical assessment of intersection safety across Europe. Proceedings of the 1<sup>st</sup> International Conference on Access Management, Athens, Greece, June 2011.
- 4.63. Antoniou, C., B. Psarianos and G. Foll (2011). Simulation-based time-space management of workzone construction scheduling. Application in the Korinth-Patras motorway. Proceedings of the 6th International Symposium on Highway Capacity and Quality of Service, Stockholm, June 2011.
- 4.62. Yannis, G., C. Antoniou and E. Papadimitriou (2011). Modeling traffic fatalities in Europe. Proceedings of the 90th Annual Meeting of the Transportation Research Board, January 2011, Washington, D.C.
- 4.61. Papathanasopoulou, V. and C. Antoniou (2011). Assessment of congestion pricing prospects for Athens, Greece. Proceedings of the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, January 2011, Washington, D.C.

- 4.60. Y. Tyrinopoulos and C. Antoniou. Analysis of factors affecting public transit user satisfaction. Proceedings of the 5th International Congress on Transportation Research, Volos, 27-28 September 2010.
- 4.59. G. Yannis, C. Antoniou and E. Sigalas. Applications of new technologies in road safety and the attitude of drivers toward them. Proceedings of the 5th International Congress on Transportation Research, Volos, 27-28 September 2010 (in Greek).
- 4.58. G. Sarlas and C. Antoniou. Simulation-based impact assessment of a hypothetical congestion charging scheme in the downtown Athens road network. Proceedings of the 5th International Congress on Transportation Research, Volos, 27-28 September 2010 (in Greek).
- 4.57. E. Huang, C. Antoniou, J. Lopes, Y. Wen and M. Ben-Akiva. Accelerated On-line Calibration of Dynamic Traffic Assignment using Distributed Stochastic Gradient Approximation. Proceedings of the 13th International IEEE Conference on Intelligent Transportation Systems (ITSC), Madeira, Portugal, 19-22 September 2010.
- 4.56. J. Lopes, J. Bento, E. Huang, C. Antoniou and M. Ben-Akiva. Traffic and Mobility Data Collection for Real- Time Applications. Proceedings of the 13th International IEEE Conference on Intelligent Transportation Systems (ITSC), Madeira, Portugal, 19-22 September 2010.
- 4.55. C. Antoniou, P. Kopelias and F. Papadimitriou. Active Traffic Management Applications in Greece. The case of Attica Tollway. Proceedings of the 13th International IEEE Conference on Intelligent Transportation Systems (ITSC), Madeira, Portugal, 19-22 September 2010.
- 4.54. N. Picard, A. de Palma, K. Axhausen and C. Antoniou. SustainCity: State of the art review in landuse transport modeling. Proceedings of the 12th World Conference on Transport Research (WCTR), July 11-15, 2010, Lisbon, Portugal.
- 4.53. C. Antoniou, R. Balakrishna and H.N. Koutsopoulos. Exploiting emerging data collection technologies for dynamic traffic management applications. Proceedings of the 12th World Conference on Transport Research (WCTR), July 11-15, 2010, Lisbon, Portugal.
- 4.52. G. Yannis, C. Antoniou and P. Evgenikos. Comparative analysis of junction safety in Europe. Proceedings of the 12th World Conference on Transport Research (WCTR), July 11-15, 2010, Lisbon, Portugal.
- 4.51. M. Ben-Akiva, C. Antoniou, E. Huang, M. Milkovits, and J. Lopes. DynaMIT 2.0: Next Generation Real-time Dynamic Traffic Assignment System. Proceedings of The Second International Conference on Advances in System Simulation (SIMUL 2010), August 22-27, 2010 - Nice, France.
- 4.50. C. Antoniou, P. Vythoulkas, B. Psarianos and Chr. Akritidis. Road safety enhancements in schools. Application to the Municipality of Athens. Proceedings of the 4th Panhellenic Conference on Road Safety, November 5-6, 2009, Athens (in Greek).
- 4.49. E. Huang, C. Antoniou, Y. Wen, M. Ben-Akiva, J. Lopes and J. Bento. Real-Time Multi-Sensor Multi-Source Network Data Fusion Using Dynamic Traffic Assignment Models. Proceedings of the 12th International IEEE Conference on Intelligent Transportation Systems (ITSC2009), October 3-7, 2009, St. Louis, MO, USA.
- 4.48. E. Dupont, H. Martensen, H. Stipdonk, F. Bijleveld, J. Commandeur, E. Papadimitriou, G. Yannis, C. Antoniou, R. Bergel, M. Debarh, C. Brandstaetter. Analyses using the European Road Safety Observatory. Proceedings of the 4th IRTAD Conference, 16-17 September, 2009, Seoul, Korea.
- 4.47. C. Antoniou, R. Balakrishna, H. N. Koutsopoulos and M. Ben-Akiva. Off-line and on-line calibration of Dynamic Traffic Assignment Systems. Proceedings of the 12th IFAC Symposium on Control in Transportation Systems, Redondo Beach, CA, USA, September 2 - 4, 2009.
- 4.46. C. Antoniou, B. Psarianos and W. Brilon. Irregularities in the output of transport planning models' forecasts for capital infrastructure planning decisions. Proceedings of the 2nd International Symposium on Freeway and Tollway Operations, Honolulu, Hawaii – June 21-24, 2009.
- 4.45. V. Vaze, C. Antoniou, Y. Wen and M. Ben-Akiva. Calibration of Dynamic Traffic Assignment Models with Point-to-Point Traffic Surveillance. Proceedings of the 87th Annual Meeting of the Transportation Research Board, January 2009.
- 4.44. R. Balakrishna, C. Antoniou, H. N. Koutsopoulos, Y. Wen and M. Ben-Akiva. Calibrating Speed-Density Functions for Mesoscopic Traffic Simulation. Symposium on the Fundamental Diagram: 75 Years (Greenshields 75 Symposium), July 8-10, 2008, Woods Hole, MA. Preprints.
- 4.43. Y. Tyrinopoulos and C. Antoniou. Advanced information and communication technologies initiatives aiming at the efficiency of intermodal transport. Proceedings of the 4th International Congress on Transport Research, 28-30 May 2008, Athens, Greece (In Greek).
- 4.42. C. Antoniou, G. Tsoukos, A. Bizakis and D. Papadopoulos. Improving the effectiveness of rail freight transport management through ICT: An innovative state-of-the-art tool. Proceedings of the 4th International Congress on Transport Research, 28-30 May 2008, Athens, Greece (In Greek).

- 4.41. C. Antoniou, G. Tsoukos, A. Bizakis, C. Papadopoulos and D. Tsitsamis. Container terminal management using ICT: An innovative state-of-the-art tool developed for the port of Thessaloniki. Proceedings of the 4th International Congress on Transport Research, 28-30 May 2008, Athens, Greece (In Greek).
- 4.40. Y. Xu, S. Zhu, H. Wang, J. Guan, Q. Sun, B. Liu, D. Liu, J. Xia, and C. Antoniou. Relationship between weaving length and traffic safety in road interchange. Proceedings of ASCE T&DI Symposium on Transportation and Development Innovative Best Practices (TDIBP), Beijing, April 2008.
- 4.39. G. Yannis, C. Antoniou and G. Kapotsis. Correlation road risk with selected interurban road characteristics. Proceedings of the 4th International Congress on Transport Research, 28-30 May 2008, Athens, Greece (In Greek).
- 4.38. G. Yannis, E. Bournelaki and C. Antoniou. Investigation of the influence of the median to the relative risk of interurban road segments. Proceedings of the 4th International Congress on Transport Research, 28-30 May 2008, Athens, Greece (In Greek).
- 4.37. V. Rathi, C. Antoniou, Y. Wen, M. Ben-Akiva and M. Cusack. Assessment of the Impact of Dynamic Prediction-Based Route Guidance using a simulation-based, closed-loop Framework. Proceedings of the 87th Annual Meeting of the Transportation Research Board, January 2008.
- 4.36. R. Balakrishna, Y. Wen, M. Ben-Akiva and C. Antoniou. Simulation-Based Framework for Transportation Network Management under Emergencies. Proceedings of the 87th Annual Meeting of the Transportation Research Board, January 2008.
- 4.35. A. Tsimpa, A. Polydoropoulou and C. Antoniou.. Modelling Advanced Traveller Information Systems (ATIS) Acquisition and Effect on Travellers Choices: An Extended Literature Review. Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation, 27-31 May 2008, Athens, Greece.
- 4.34. Constantinos Antoniou, Ramachandran Balakrishna and Haris N. Koutsopoulos. Emerging Data Collection Technologies and their Impact on Traffic Management Applications. Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation, 27-31 May 2008, Athens, Greece.
- 4.33. Vaibhav Rathi, Constantinos Antoniou\*, Moshe Ben-Akiva and Wen Yang. Optimal Variable Message Sign location identification using genetic algorithms and a closed-loop simulation environment. Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation, 27-31 May 2008, Athens, Greece.
- 4.32. G. Yannis, C. Antoniou, S. Vardaki and G. Kanellaidis. Older drivers' perception and acceptance of in-vehicle devices for road safety and traffic efficiency. Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation, 27-31 May 2008, Athens, Greece.
- 4.31. A. Bizakis and C. Antoniou. Enhancing the container transport paradigm through ICT for safety, security, efficiency and sustainability. Abstract submitted to the 10th International Conference MARDCON 10 "Container Transport: The future ahead". Ain El Sokhna, Egypt, 4-5 November, 2007.
- 4.30. C. Antoniou, H. N. Koutsopoulos, and G. Yannis. An efficient non-linear Kalman filtering algorithm using simultaneous perturbation and applications in traffic estimation and prediction. Proceedings of the IEEE Intelligent Transportation Systems Conference, Seattle, USA, 1-3 October 2007.
- 4.29. C. Antoniou and H. N. Koutsopoulos. Simulation-based, real-time traffic flow prediction for congestion pricing. Proceedings of the International Conference "Roads of the future", Athens, June 2007.
- 4.28. Nowotny B., Hainitz N., Koller H., EL Faouzi N.-E., Antoniou C. Towards Estimating Motorway Network Performance and its Reliability from Electronic Toll Collection Data. Proceedings of the Third International Symposium on Transportation Network Reliability, July 2007.
- 4.27. A. Tsimpa, A. Polydoropoulou, and C. Antoniou. Development of a Latent Variable Model to Capture the Impact of Risk Aversion on Travelers' Switching Behavior. 11th World Conference on Transport Research (WCTR), Berkeley, CA, June 24-28, 2007.
- 4.26. C. Antoniou, H. N. Koutsopoulos, and G. Yannis. Traffic state prediction using Markov chain models. Proceedings of the European Control Conference 2007, Kos, Greece 2-5 July 2007.
- 4.25. C. Antoniou, E. Gagatsi, and Y. Tyrinopoulos. Technological innovation in multimodal freight transport: key to growth and competitiveness. Proceedings of the 1st International Scientific Conference on Intermodal Transport, Chios, May 2007.
- 4.24. R. Balakrishna, C. Antoniou, M. Ben-Akiva, H. N. Koutsopoulos and Y. Wen. Calibration of Microscopic Traffic Simulation Models: Methods and Application. Proceedings of the 86th Annual Meeting of the Transportation Research Board, Washington D.C., 2007.
- 4.23. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. Non-linear Kalman Filtering Algorithms for On-line Calibration of Dynamic Traffic Assignment Models. Proceedings of IEEE Intelligent Transportation Systems Conference (ITSC), Toronto, Canada, 17-20 September, 2006.

- 4.22. C. Antoniou, B. Nowotny, A. Rechbauer, and M. Linauer. Calibration of DTA models using floating car data: An application of DynaMIT in Vienna. Proceedings of the 2nd International Symposium in Transportation Simulation, EPFL, Lausanne, Switzerland, 4-6 September 2006.
- 4.21. C. Antoniou and H. N. Koutsopoulos. A Comparison of Machine Learning Methods for Speed Estimation. Proceedings of the 11th IFAC Symposium on Control in Transportation Systems to be held in Delft, The Netherlands, August 29-31, 2006.
- 4.20. C. Antoniou and M. Ben-Akiva. Impact of predictive traffic information on experienced travel time and its variability. Proceedings of the 3rd International Congress on Transport Research, Thessaloniki, Greece, May 11-12, 2006.
- 4.19. C. Antoniou and H. N. Koutsopoulos. Comparison of parametric and non-parametric traffic dynamics models. Proceedings of the 3rd International Congress on Transport Research, Thessaloniki, Greece, May 11-12, 2006.
- 4.18. D. Tsamboulas and C. Antoniou. Allocating integrated fare revenue to multiple public transit operators. Proceedings of the 85th Annual Transportation Research Board Meeting, Washington D.C., 2006.
- 4.17. C. Antoniou and H. N. Koutsopoulos. Estimation of Traffic Dynamics Models with Machine Learning Methods. Proceedings of the 85th Annual Transportation Research Board Meeting, Washington D.C., 2006.
- 4.16. C. Antoniou. After the seat-belt and the airbag. Technical measures for the improvement of road safety in the 21st century. Proceedings of the 3rd Road Safety Conference, October 10-11, 2005, Patras, Greece. (in Greek)
- 4.15. C. Antoniou and H. N. Koutsopoulos. Simulation-Based Evaluation Of Safety Performance Of Intelligent Vehicle Safety Systems. Proceedings of the 3rd Road Safety Conference, October 10-11, 2005, Patras, Greece.
- 4.14. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. On-line calibration of traffic prediction models. Proceedings of the 84th Annual Meeting Transportation Research Board, January 9-13, 2005, Washington, D.C.
- 4.13. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. On-line calibration of traffic prediction models. Proceedings of the 7th International IEEE Conference on Intelligent Transportation Systems, Washington, D.C., October 3-6, 2004.
- 4.12. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. Incorporating Automated Vehicle Identification information into Origin-Destination Estimation and Prediction. Proceedings of the 10th World Conference on Transport Research, July 2004, Istanbul, Turkey.
- 4.11. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. On-line calibration of traffic dynamics models. Proceedings of the 2nd International Congress on Transportation Research in Greece, February 26-27, 2004, Athens, Greece.
- 4.10. A. Bekiaris, I. Golias, G. Yannis, and C. Antoniou. Standardisation, Implementation and Optimum Use of Advanced Driver Assistance and Vehicle Control Systems. Proceedings of the 2nd International Congress on Transportation Research in Greece, February 26-27, 2004, Athens, Greece.
- 4.9. C. Antoniou, M. Ben-Akiva, and H. N. Koutsopoulos. Incorporating Automated Vehicle Identification data into Origin-Destination Estimation. Proceedings of the 83rd Annual Meeting of the Transportation Research Board, January 2004, Washington D.C.
- 4.8. G. Yannis, J. Golias, and C. Antoniou. Combining traffic simulation and driving simulator analyses for Advanced Cruise Control system impact identification. Proceedings of the 83rd Annual Meeting of the Transportation Research Board, January 2004, Washington D.C.
- 4.7. C. Antoniou, G. Yannis, and J. Golias. Road network efficiency and environmental impact assessment of Driver Assistance Systems. Proceedings of the 9th World Congress on Intelligent Transportation Systems, Chicago, October 14 - 17, 2002.
- 4.6. M. Shinakis, E. Koukouloudi, C. Antoniou, D. Tsitsamis, and Y. Tyrinopoulos. New Telematics Tools for Container Port Management. Proceedings of the International Conference on Cost Effective Infrastructure and Systems to Improve Cargo and Passenger Transport in South Eastern Europe, Budapest, Hungary, 17 - 19 October 2001.
- 4.5. Y. Tyrinopoulos, C. Antoniou, and M. Shinakis. Intermodal Load Monitoring and Control Telematics to increase Maritime Safety and efficiency. 2nd International Conference "Safety of Maritime Transport", Chios-Greece, 7 - 9 June 2001.
- 4.4. G. Yannis and C. Antoniou. Weigh-in-motion stations and road network management. Proceedings of the 13th National Conference of the Hellenic Institute of Operational Research "Transport and new technologies", University of Pireaus, Nov. 30 - Dec. 2, 2000.
- 4.3. J. Golias, C. Antoniou, "A Framework for the Estimation of the Impact of Advanced Driver Assistance Systems", Proceedings of the Workshop "The role of Advanced Driver Assistance Systems on traffic safety and efficiency", NTUA, Athens, October 18, 2000, pp. 30-42.
- 4.2. G. Yannis, C. Antoniou, "State-of-the art on Advanced Driver Assistance Systems", Proceedings of the Workshop "The role of Advanced Driver Assistance Systems on traffic safety and efficiency", NTUA, Athens, October 18, 2000, pp. 4-18.

4.1. C. Antoniou, M. Ben-Akiva, M. Bierlaire and R. Mishalani. Demand simulation for dynamic traffic assignment. Proceedings of the 8th IFAC Symposium on Transportation Systems, Chania, Greece, June 1997.

### **ANNEX 3. Reviewing responsibilities**

Reviewer for over 45 scientific journals, more than 50 international scientific conferences, Greek scientific conferences, as well as research proposals in more than 10 research organizations from Europe, Middle East, South America and North America.

#### **Reviewer in International Scientific Journals, including**

- Accident Analysis and Prevention
- Advances in Transportation Studies
- American Society of Civil Engineers (ASCE) Journal of Transportation Engineering (JTE)
- Automation in Construction
- Canadian Journal of Civil Engineering
- Case Studies on Transport Policy
- Computer-Aided Civil and Infrastructure Engineering (CACAIIE)
- Environmental Health Perspectives
- European Journal of Transport and Infrastructure Research
- EURO Journal on Transportation and Logistics
- European Transport Research Review
- ICE Transport
- IEEE Intelligent Transportation Systems Magazine
- IEEE Internet Computing
- IEEE Transactions on Intelligent Transportation Systems
- IEEE Transactions on Knowledge and Data Engineering
- IET Intelligent Transport Systems
- International Journal of Sustainable Transportation (IJST)
- International Journal of Transportation
- International Journal of Intelligent Transportation and Urban Planning (ITUP)
- ISPRS International Journal of Geo-Information
- Journal of Advanced Transportation
- Journal of Traffic and Transportation Engineering
- Journal of Transport and Shipping
- Journal of Transportation Safety and Security
- Mathematical Modeling
- Networks and Spatial Economics
- Ocean Systems Management Journal
- Reliability Engineering & System Safety
- Research in Transportation Economics
- Safety Science
- Simulation Modeling Practice and Theory (SIMPAT)
- Systems
- The Computer Journal
- Tourism Geographies
- Transport Policy
- Transportation
- Transportation Letters
- Transportation Research Part A: Policy and Practice
- Transportation Research Part B: Methodological
- Transportation Research Part C: Emerging Technologies
- Transportation Research Part D: Transport and Environment
- Transportation Research Part E: Logistics and Transportation Review
- Transportation Research Part F: Traffic Psychology and Behavior
- Transportation Research Record: Journal of the Transportation Research Board
- Transportation Science
- Transportmetrica A – Transport Science (and the preceding Transportmetrica)
- Transportmetrica B – Transport Dynamics
- Travel Behavior and Society
- Urban, Planning and Transport Research