

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Name **ANTONIOU, CONSTANTINOS**  
Address **NATIONAL TECHNICAL UNIVERSITY OF ATHENS  
SCHOOL OF RURAL AND SURVEYING ENGINEERING  
LABORATORY OF TRANSPORTATION ENGINEERING  
9 IROON POLYTECHNIU STR., ZOGRAFOU CAMPUS, GR-15780 ATHENS, GREECE**  
Telephone **++30 210 7722783**  
Fax **++30 210 7722629**  
E-mail **antoniou@central.ntua.gr**

Nationality **Hellenic**  
Date of birth **4 MARCH 1973**  
Gender **MALE**

**WORK EXPERIENCE**

- Dates (from – to) **2008-Present**
- Name and address of employer **National Technical University of Athens, Greece**
- Type of business or sector **University / Higher Education**
- Occupation or position held **Assistant Professor (of Highway Engineering, Road safety and operation)**
- Main activities and responsibilities **Teaching graduate and undergraduate courses, supervision of diploma theses and Ph.D. dissertations, preparation, management and execution of research proposals, basic and applied research.**
  
- Dates (from – to) **2008-Present**
- Name and address of employer **Massachusetts Institute of Technology, Cambridge MA, USA**
- Type of business or sector **University / Higher Education**
- Occupation or position held **Research Affiliate**
- Main activities and responsibilities **Co-supervision of graduate theses, participation in research projects**
  
- Dates (from – to) **2004-2008**
- Name and address of employer **Massachusetts Institute of Technology, Cambridge MA, USA**
- Type of business or sector **University / Higher Education**
- Occupation or position held **Post-doctoral Research Associate**
- Main activities and responsibilities **Management and participation in research projects, co-supervision of graduate theses, preparation of research proposals**
  
- Dates (from – to) **2006-2008**
- Name and address of employer **TREDIT S.A., Athens, Greece**
- Type of business or sector **Transport Consultancy**
- Occupation or position held **Director of Athens Branch**
- Main activities and responsibilities **Athens branch administration, management of EU projects (including FREIGHTWISE, EFFORTS, EURIDICE, PROMIT, MADAMA, MEDIGATE, CORELOG, SMART-CM) and national projects, preparation of research proposals**

- Dates (from – to) 1999-2008
- Name and address of employer National Technical University of Athens, Greece
  - Type of business or sector University / Higher Education
  - Occupation or position held Research Associate
- Main activities and responsibilities Participation in EU projects primarily related to road safety and ITS (incl. ADVISORS, SAFETY-NET, MARIE CURIE FLEXIBLETRAFFIC) and national projects

- Dates (from – to) 2001-2004
- 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, 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
- Name and type of organization providing education and training 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

- Dates (from – to) 1995-1997
- Name and type of organization providing education and training 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

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

1990-1995  
 National Technical University of Athens, Greece  
 Civil Engineering  
 Transportation Engineering  
 Diploma (5-year) in Civil Engineering (Transportation Specialization)

**PERSONAL SKILLS AND COMPETENCES**

MOTHER TONGUE

**GREEK**

OTHER LANGUAGES

**ENGLISH**

- Reading skills EXCELLENT
- Writing skills EXCELLENT
- Verbal skills EXCELLENT

**GERMAN**

- Reading skills GOOD
- Writing skills GOOD
- Verbal skills GOOD

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  
 ENTHUSIASTIC IN TEACHING, ATTRACTING POSITIVE FEEDBACK AND EVALUATION FROM STUDENTS  
 PRESENTATIONS AND COMMUNICATION SKILLS, BOTH AT PROFESSIONAL AND SCIENTIFIC VENUES

TECHNICAL SKILLS AND COMPETENCES

SIGNIFICANT EXPERIENCE IN THE DESIGN AND DEVELOPMENT OF TECHNICAL AND SCIENTIFIC SOFTWARE IN SEVERAL LANGUAGES (INCLUDED: C/C++, PYTHON, MATLAB/OCTAVE, BASH/TC SH SHELL SCRIPTING, DELPHI/PASCAL, SQL, MAPOBJECTS, CORBA) AND PLATFORMS (INCLUDED: WINDOWS, LINUX, MAC OS X, SOLARIS, IRIX).  
 VERY GOOD USE OF TRANSPORTATION SOFTWARE (E.G. SATURN, VISSIM, DYNAMIT, MITSIMLAB), STATISTICAL SOFTWARE (E.G. R, SPSS, BIOGEME, SST) AND GEOGRAPHIC INFORMATION SYSTEMS (E.G. TRANSCAD, ARCVIEW)

MEMBERSHIPS

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)  
 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)  
 TRANSPORTATION RESEARCH BOARD (TRB)  
 TECHNICAL CHAMBER OF GREECE (TEE)  
 ASSOCIATION OF CIVIL ENGINEERS OF GREECE (SPME)  
 HELLENIC INSTITUTE OF TRANSPORTATION ENGINEERS (HITE) – SPECIAL SECRETARY OF THE BOARD OF DIRECTORS (2008-2010), GENERAL SECRETARY OF THE BOARD OF DIRECTORS (2010-2012)

**ANNEXES**

LIST OF SELECTED PROJECTS  
 LIST OF SELECTED PUBLICATIONS

## 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)
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
2010-2012	Scientific responsible 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.

### 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)

### 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.
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### 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.
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### Aristotle University of Thessaloniki

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

- 2.4. M. Ben-Akiva, H.N. Koutsopoulos, T. Toledo, Q. Yang, C.F. Choudhury, C. Antoniou, and R. Balakrishna. "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, R. Balakrishna and Y. Wen. "Traffic Simulation with DynaMIT". In J. Barcelo (ed.) "Fundamentals of traffic simulation". (ISBN: 978-1-4419-6141-9), Springer.
- 2.2. C. Antoniou. "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. 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, 2005.

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

- 3.25. Sundaram, S., H. N. Koutsopoulos, M. Ben-Akiva, C. Antoniou and R. Balakrishna. Simulation-based Dynamic Traffic Assignment for Short-Term Planning Applications. Simulation Modelling Practice and Theory, accepted for publication, 2010.
- 3.24. B. Heilman, N.-E. El Faouzi, O. de Mouzon, N. Hainitz, H. Koller, C. Antoniou. Estimating Motorway Network Performance And Its Reliability From Electronic Toll Collection Data. Computer-Aided Civil and Infrastructure Engineering, in print, 2010.
- 3.23. G. Yannis, C. Antoniou, S. Vardaki and G. Kanellaidis. Older drivers' perception and acceptance of in-vehicle devices for traffic safety and traffic efficiency. Accepted for publication in ASCE Journal of Transportation Engineering, 2010.
- 3.22. A. Tsimpa, A. Polydoropoulou and C. Antoniou. Modeling the effect of risk aversion on travellers; switching behaviour. Journal of Choice Modeling, 3(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. Accepted for publication in the Transportation Research Record: Journal of the Transportation Research Board, No. 2090, 2009, pp. 1-9.
- 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, 2008.
- 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. 1-20, 2007.
- 3.14. G. Yannis and C. Antoniou. Sensitivity analysis of Greek drivers' behavior towards enforcement for road safety. European Transport/Europei Transporti, No. 37, 2007, pp. 62-77.
- 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. A. Tsirimpa, 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.
- 3.11. G. Yannis, E. Papadimitriou, and C. Antoniou. Multilevel modeling for the regional effect of enforcement on road accidents. Accepted for publication in Accident Analysis and Prevention, Vol. 39, 2007, pp. 818-825.
- 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 2004.
- 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. Intelligent Transportation Systems Journal, Vol. 7, No. 3-4, 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, 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, 2001.

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

- 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. Bourmelaki 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.
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