

# MARIA P. BOILE

## Address

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## Current Position

Research Director, Hellenic Institute of Transport, Centre for Research and Technology Hellas

Head of the Athens Office, Hellenic Institute of Transport, Centre for Research and Technology Hellas

Head of Unit C – Transport Economy and Environment. Hellenic Institute of Transport, Centre for Research and Technology Hellas

Affiliated Faculty/Research Fellow– Center for Advanced Infrastructure and Transportation. Rutgers, The State University of New Jersey

Elected Associate Professor, Department of Maritime Studies, University of Piraeus, Greece. Position Title: “Management and Policy of Port and Intermodal Terminals”

## Education

### **Ph.D. Transportation Engineering, New Jersey Institute of Technology, October, 1995**

***Ph.D. Dissertation:** Intermodal Commuter Network Planning. Development of models to estimate traffic volumes and travel costs on intermodal networks. The optimization models are formulated based on sound mathematical and economic principles, and their equilibrium conditions are derived and stated clearly. A rigorous analysis of the mathematical properties of the models proves that these conditions are satisfied from the model solutions. A methodological framework is proposed, which utilizes the models to analyze and evaluate operating and pricing policies in intermodal networks. To link theory and practice, the models are applied to the analysis of a real-world intermodal commuter network. Policies aimed at improving the service quality of the intermodal network are evaluated based their benefits compared to existing conditions. (Received an Award from the U.S. Department of Transportation, 1994)*

**M.S. Civil and Environmental Engineering, (concentration on Environmental Engineering)  
Rutgers University, October, 1992**

*M.S. Special Project: The 1990 Clean Air Act Amendments and the New EPA Standards.*  
The main focus is on the assessment of the environmental pollution implications of the transport sector, in light of the adoption of the Clean Air Act Amendments.

**Diploma in Civil (Transportation) Engineering, National Technical University of Athens,  
October, 1990**

*Diploma Thesis: Policy Development for the National Port System – General Overview and Analysis of Container Terminals.* Study of the container traffic from, to, and through Greek ports. Comparative analysis of past studies on the forecast of traffic moving through Greek ports, analysis of the general framework of port planning and development, and development of policies for the national port system. (*Recipient of the A. Petropoulos Best Thesis Award, 1992*).

## **Areas of Proficiency**

### **Multimodal passenger transportation systems analysis, planning and operations**

- Member of the Eno Transportation Foundation’s Board of Regents.
- Recipient of the best paper award for the paper titled: “Intermodal Passenger Transportation Paper”.
- Highly proficient in the development and use of demand models for policy analysis and transportation system planning and major role in the development of state transportation plans for passenger transport systems, for three states.
- Charter member of the ASCE Transportation and Development Institute.

### **Intermodal freight transportation modeling**

- Invited expert participant in the EU-US Transportation Research Symposium on City Logistics Research – A Trans-Atlantic Perspective.
- Invited expert by the US Department of Transportation – Bureau of Transportation Statistics Freight Data round table.
- Invited expert by the Eno Transportation Foundation and the US Department of Transportation – Bureau of Transportation Statistics Workshop on Statistical Indicators for Transportation.
- Member of the Advisory Board of the National Center for Transportation and Industrial Productivity.
- Consultant for major international companies and international institutions, including the Inter American Development Bank and the World Bank.
- National Cooperative Freight Research Program (NCFRP) Project Panel 03 – Performance Metrics for Freight Transportation Productivity. National Academy of Sciences. November 2007

## **Intelligent Transportation Systems**

- Co-founder of the first ITS America student chapter.
- Member of the Steering Committee developing Pennsylvania's ITS/CVO Business Plan.
- Member of research teams on:
  - Enhancing the Development of Intelligent Vehicle-Highway Systems (IVHS) Technologies, for the US Department of Transportation, Federal Highway Administration.
  - ATIS Study Pre-Implementation Market Analysis, for the New Jersey Department of Transportation;
  - Enhancing the IVHS Content in the Transportation Program, from the AT&T Foundation.
  - A Methodological Framework for Evaluating Benefits of Intelligent Transport Systems Technologies for the Raritan Valle Commuter Corridor.
  - High Occupancy Vehicle lanes (HOV) Route I-80, for the NJ Department of Transportation.

## **Port and inland terminal design, planning and operations**

- Recipient of the best thesis A. Petropoulos award for research in the port sector for the thesis titled: "Policy Development for the National Port System".
- Recipient of the prestigious National Science Foundation (NSF) Partnerships for Innovation (PFI) award.
- Founder and Director of the Freight and Maritime Program (FMP) at the Center for Advanced Infrastructure and Transportation.
- Founder and Director of the Maritime Infrastructure Engineering and Management Program (MIEMP) at the Center for Advanced Infrastructure and Transportation
- Director of the Maritime Laboratory at Rutgers University. Advisor to the Port Authority of New York and New Jersey.
- External advisor to major consulting firms.
- Member and chair of relevant professional societies and committees.
- Leader in the area of port and terminal operations.

## **Program Building**

### **Freight and Maritime Program**

- Established and served as co-director of the Maritime Infrastructure Engineering and Management Program (MIEMP) in 2004 as an institution within the Center for Advanced Infrastructure and Transportation (CAIT). The program was restructured and renamed to Freight and Maritime Program (FMP) in 2007.
- Secured over \$5 million in program funding from major sponsors (NSF, USDOT, FHWA, NJDOT, NYSDOT, NJDEP, NYMTC, PANYNJ)
- Designed a specialised curriculum of eight (8) core graduate courses

- Obtained facilities and established the state-of-the-art Maritime Laboratory fully equipped with data, hardware and software
- Established the Program's Advisory Board with high-level executives from the greater NY metropolitan region. This model was subsequently followed by the Center for Advanced Infrastructure and Transportation (CAIT) and it is acknowledged as a "best practice" for the cooperation of the Research Community in Transportation with the Public Sector and Private Sector transport industry leaders.
- FMP is a program recognized internationally by the public sector and the freight, logistics, and port industry, as well as by other academic and research institutions.

#### **Academic Excellence Interdisciplinary Freight Transportation Program**

- Established an interdisciplinary freight transportation program at Rutgers for research and collaboration with the government and industry (Freight Transportation Center of Excellence- FTCE). The Program, supported directly by the Rutgers University President's Office, brought together members of the Rutgers University academic community from the schools of engineering, urban planning, and business. The research and education sector of Freight Transportation, through the Center of Excellence, was selected as a Priority Theme for Rutgers University, given its role in the New York-New Jersey Metro Area.
- Co-developed the "Graduate Certificate in Transportation" at Rutgers University, an inter-departmental and interdisciplinary graduate certificate program.
- Served as an academic advisor to students in this program.

#### **Port Industry Partnership**

- Established a region-wide port industry partnership through funding from the National Science Foundation, in 2006.
- Supported major industry initiatives in the NY/NJ region in partnership with the Port Authority of New York & New Jersey; US Department of Transportation Federal Highway Administration; NY, NJ and PA Departments of Transportation, NJ Department of Environmental Protection; New York Shipping Association, Maher Terminals, New York Metropolitan Transportation Council, North Jersey Transportation Planning Authority and other public and private sector institutions.
- Examined key industry issues and developed new research directions in Empty Intermodal Container Management; Management of Port Congestion; and Port Labour Issues, which are still today, at the forefront of research priorities for the region's and the international port industry.

#### **Executive Masters Program – Intermodal Transportation Institute, University of Denver**

- Member of the Committee of experts assisting in the development of the Intermodal Transport Institute Executive Masters Program at the University of Denver
- Assisted in the development of the Educational Curriculum of the Executive Masters Program at the Intermodal Transport Institute

- Invited visiting lecturer on Intermodal Freight Transportation Systems and Maritime and Intermodal Freight Terminal Planning and Design at the Executive Masters Program

### **Transportation Engineering Program at Lafayette College**

ABET, introduced a requirement that all Civil Engineering Programs contain a specialization in transportation, which was not the case at Lafayette College at that time.

Established the Transportation Engineering Program at Lafayette College, with the introduction of core and elective courses, as a new tenure track faculty, the only within the Department with expertise in transportation.

Documented the program activities and progress and submitted the transportation related material for the ABET accreditation of the Civil and Environmental Engineering Department, which was completed successfully.

## **Academic Experience**

Associate Professor of Civil Engineering, Rutgers University, Piscataway, New Jersey – 2007-2010

Assistant Professor of Civil Engineering, Rutgers University, Piscataway, New Jersey - July, 2000 to April 2007

Director, Center for Advanced Infrastructure and Transportation (CAIT), Maritime Infrastructure Engineering and Management Program (MIEMP) and Freight and Maritime Program (FMP), Rutgers University, Piscataway, New Jersey - February, 2005-2010

Academic Fellow, Rutgers Business School, Center for Supply Chain Management, Rutgers University, Newark, New Jersey – 2005-2010

Affiliated Faculty/Research Fellow, , Center for Advanced Infrastructure and Transportation (CAIT) – 2010-today

Visiting Assistant Professor of Transportation, New Jersey Institute of Technology, Newark, New Jersey – January 2000 to July 2000

Assistant Professor of Civil Engineering, Lafayette College, Easton Pennsylvania – July 1995 to July 2000

Visiting Lecturer, University of Denver, Intermodal Transportation Institute, Denver, Colorado, June 2002.

Visiting Lecturer, Institute of Transport and Maritime Management Antwerp (ITMMA), University of Antwerp, November 2007.

Visiting Lecturer, in Transportation Planning and Port Senior Management, Galilee International Management Institute, Israel, 2014

Graduate Research Assistant, New Jersey Institute of Technology, Newark, New Jersey – September 1992 to July 1995

## **Administrative Experience**

Research Director, Hellenic Institute of Transport, Centre for Research and Technology Hellas

Head of the Athens Office, Hellenic Institute of Transport, Centre for Research and Technology Hellas

Head of Unit C – Transport Economy and Environment. Hellenic Institute of Transport, Centre for Research and Technology Hellas

Member of the Research Council, Hellenic Institute of Transport, Centre for Research and Technology Hellas

Co-Director and Director of Research and Education, Freight and Maritime Program, Center for Advanced Infrastructure and Transportation (CAIT), Rutgers University.

Member of the New Faculty Evaluation Committee at Rutgers University

Chair of the Undergraduate Scholarship and Internship Committee at Rutgers University

Member of the Educational Advisory Board of the Center for Advanced Infrastructure and Transportation

Member of the Advanced Institute for Transportation Education Graduate Scholars Program in Transportation Committee, University Transportation Research Centers, Region II, US Department of Transportation

Member of the team preparing the Rutgers University, Civil Engineering Department's application for the Accreditation Board for Engineering and Technology (ABET) .

Member, Governance Committee, Lafayette College – elected by the Faculty Body

Member, Committee on Faculty and Student Diversity - appointed by the Provost

## **Professional Experience**

Member, Technical Advisory Committee (TAC) of the Sustainable Energy Europe and ManagEnergy Awards 2013, Executive Agency for Competitiveness and Innovation (EACI).

Member, Team of Experts on Maritime Transport, “Study for the Implementation of the Road Equivalent Tariff Principle in the Ionian Sea Island Maritime Route Connections” Ministry for Development, Competitiveness, Infrastructure, Transport and Networks.

Consultant to the Interamerican Development Bank on intermodal terminal and freight facility development in Latin America Countries.

Consultant to the World Bank on the assessment of training needs of the logistics sector in Greece.

Advisor to the Port Authority of New York and New Jersey on the Virtual Container Yard (VCY) Demonstration Project.

Research Team Member, “Feasibility Study and Development of a Master Plan for the Container Terminal at the Port of Thessaloniki” Thessaloniki Port Authority, Greece.

External advisor to Qualco Business Systems Design and Implementation S.A. on the project: Port Security Decision Making Tool

External advisor to PLANET-ERNST & YOUNG S.A. on the project: Technical and Economic Feasibility Study for the Integration of VTMIS within the Framework of the Transportation Management Information System of the Hellenic Ministry of Merchant Marine.

Member of the committee developing the Educational Curriculum of the Executive Masters Program of the Intermodal Transportation Institute, University of Denver.

Member of the Committee organizing and monitoring the application of a Virtual Container Yard, in the Port of New York New Jersey, for the PANYNJ, NJDOT, NYDOT and I-95 Corridor Coalition.

External advisor to Qualco Business Systems Design and Implementation S.A. on the project: Process Decision Support Tool in Port Operations

External Advisor to the Study Team on the “Development of a Berth Planning Decision Support Tool for the Piraeus Port Authority Container Terminal”.

Member of the external advisors panel to ADK S.A. on the project: Study on Specifications for the Master Plan and Land Side Equipment for the Port of Alexandroupolis

Member of the external advisors team to ADO S.A. on the project: Cost-Benefit Analysis for the Tripolis-Kalamata highway.

Member of the research team of the National Center for Transportation and Industrial Productivity on the project: “Multi-Modal Freight Transportation: Regional Data Development and Analysis” conducted for the NJ DOT.

Member of the research team of the National Center for Transportation and Industrial Productivity on the project: “Mobility and the Costs of Congestion in New Jersey” conducted for the NJ DOT.

## **Awards and Recognitions**

Best Industrial Engineering paper finalist: “Scheduling Inbound Trucks at a Cross-Docking Facility: A Multi-objective and a Hierarchical Approach” with M. Golias, G. Saharidis, S. Theofanis, T. Zhang. IESM 2009, Montreal, Canada.

Institute of Transportation Engineers, 2008 Louis J. Pignataro Memorial Transportation Engineering Education Award (2009).

Engineering Governing Council’s Excellence in Teaching Award nominee (2006)

Listed in Strathmore’s Who’s Who Worldwide since 2009

Listed in Strathmore’s Who’s Who 2007-2008 for demonstrated leadership and achievement in the profession

Listed in Who’s Who Among America’s Teachers 2006-2007 for excellence as a distinguished educator

Charter Member of the Transportation and Development Institute, American Society of Civil Engineers (2002)

Transportation Research Forum and Eno Transportation Foundation - Award for the best paper, Intermodal Passenger Transportation Paper Contest (2000)

United States Department of Transportation -- Student of the Year Award. (1994)

Women's Transportation Seminar (WTS) -- Scholarship Award (1995)

Eno Transportation Foundation -- Eno Fellowship Award. Fellow in the 1995 Transportation Leadership Development Conference.

Intelligent Vehicle/Highway Society of America -- Scholarship Award (1994)

Charter Member of the first (Alpha) student chapter of the Intelligent Vehicle/Highway Society of America.

National Center for Transportation and Industrial Productivity – Research Scholarship (1992-1995)

New Jersey Institute of Technology, Graduate Research Association, Student Achievement Award.

National Technical University of Athens – A. Petropoulos Best Undergraduate Thesis Award (1992)

## **Editorial Boards, Conference Chairmanship, Leadership Positions**

### **Invited Expert and Professional Board Member:**

Member of the Eno Transportation Foundation Board of Regents (2001 – to present)

European Transport Research Review (ETRR) Advisory Board Co-Chair (2013 – to present)

European Transport Research Review (ETRR) Advisory Board Member (2011- 2013)

European Commission, U.S. DOT, Transportation Research Board, Invited Expert. EU-US Transportation Research Symposium No. 1, City Logistics Research: A Trans-Atlantic Perspective. (2013)

Bank of Greece. Review of Report on the Impacts of Climate Change. (2011)

Experts' Panel on Freight Transportation, NY Mayor Bloomberg's Office of Long-Range Planning and Sustainability, 2030 Sustainability Initiative. February 2007

Advisor to the Port Authority of New York / New Jersey in the evaluation of applications and selection of the team developing a Virtual Container Yard (2007).

Eno Transportation Foundation and United States Department of Transportation - Bureau of Transportation Statistics. Invited expert. Workshop on Statistical Indicators for Transportation. (2001).

United States Department of Transportation - Bureau of Transportation Statistics Freight Data Round-Table. Invited expert. (2000)

Member of the Steering Committee developing Pennsylvania's ITS/CVO Business Plan (1998-1999)

Member of the Advisory Board of the National Center for Transportation and Industrial Productivity (1995-1998).



**Professional and Journal Editorial Boards:**

Member of the Editorial Advisory Board - Transportation Research Part B (1998-2009)

Member of the Review Committee for the Freight Transportation Planning and Logistics Committee (Transportation Research Board) (2007 – 2009)

Chair of the Review Committee for the International Trade and Transportation Committee (Transportation Research Board) (2012 – to present)

Reviewer for the following scientific journals: European Journal of Operational Research, Transportation Research Record, Transportation Research Parts A, B, C and E, Transportation Science, Journal of Transportation Engineering of the American Society of Civil Engineers, Journal of the Transportation Research Forum, Journal of Computer-Aided Civil and Infrastructure Engineering

**Professional Society Membership:**

International Association of Maritime Economists (IAME) 2009 – to present

Institute of Transportation Engineers (ITE), 1992-2010.

Transportation Research Forum (TRF), 1993-2010.

American Society of Civil Engineers (ASCE), 1997-2009.

Women's Transportation Seminar (WTS), 1995-2003.

Institute for Operations Research and the Management Sciences (INFORMS), 1995-2009.

American Society for Engineering Education (ASEE), 1996-2003.

Hellenic Institute of Transportation Engineers, 2000-to present.

Technical Chamber of Greece, 1990-to-present.

**Expert Evaluator:**

National Cooperative Freight Research Program (NCFRP) Project Panel 03 – Performance Metrics for Freight Transportation Productivity. National Academy of Sciences. November 2007

“Integrated Projects” proposals submitted to the European Commission Directorate G – Maritime Transport and Intermodality, FP6-2002-TREN-1. June 2003.

“Coordination Action” proposals submitted to the European Commission Directorate G – Maritime Transport and Intermodality, FP6-2004-TREN-3. February 2005.

“Research, Technological Development and Demonstration Activities” projects submitted to the European Commission Security Research Programme, FP7-ICT-SEC-2007-1. January 2008

**Scientific Conference Session Chair:**

TRB Annual Meeting, Presiding Officer, Session 232 Recent Research on International Trade and Transportation, 2014

World Conference on Transport Research (WCTR), Presiding Officer, Session on «Ports: Policy A2-1» Berkeley, California, 24-28 June 2007

Institute for Operations Research and Management Science (INFORMS), Presiding Officer, Session on «Berth Allocation, Berth Scheduling and Vessel Planning» Seattle, Washington, 4-7 Νοεμβρίου 2007.

International Conference “The Role of Ports in Regional Development” Presiding Officer, Session on «Maritime Transport – International Developments» Patra, 17-18 October 2003.

10th International Engineering Conference (MASE), Ohrid, Presiding Officer, Session PC-3. 25-27 September 2003.

Institute for Operations Research and Management Science, Presiding Officer, Session «Transportation II» SB20 San Diego, 4-7 May 1997.

## Committee Work

### Scientific and Technical Committees:

Transportation Research Board (TRB) Committee on Transportation Network Modeling (ADB30) – Member (2012- to date)

Transportation Research Board (TRB) Committee on Urban Freight Transportation (AT025) – Member (2012- to date)

Transportation Research Board (TRB) Committee on International Trade and Transportation (AT020) – Member (2012- to date)

Transportation Research Board (TRB) Freight Transportation Planning and Logistics Committee (AT015) – Member (2006-2009)

Transportation Research Board (TRB) Marine Environmental Committee (AW030) – Member (2006 – 2009)

Organizing Committee (Chair) International Conference on Transport Research (ICTR), 2013, Thessaloniki, Greece.

Scientific Committee, International Maritime Association of the Mediterranean Conference (2013), La Coruna, Spain, October 14-17.

Program Committee of the E-Freight Conference, Delft, May 2012.

Ship Operations Cooperative Program, Marine Highways committee – Member (2009 – to date)

Scientific Committee, Odysseus 2012, 5<sup>th</sup> International Workshop on Freight Transport and Logistics. May 2012. Mykonos, Greece.

Program Committee. IEEE, International Conference on Intelligence and Security Informatics. Vancouver, Canada, May 2010

Scientific Committee, International Conference on Transport Research in Greece. Volos, Greece, September 2010

International Program Committee Member. International Conference on Signal Processing, Robotics and Automation. University of Cambridge, UK, February 2010.

Program Committee. IEEE, International Conference on Intelligence and Security Informatics. Taipei, Taiwan, June, 2008

Scientific Committee. Education and Educational Technologies Conference. Venice, Italy, November 2007

Program Committee. IEEE, Intelligent and Security Informatics, ISI 2007. New Brunswick, US, May 2007.

Scientific Committee, 10<sup>th</sup> International Conference on Engineering (MASE) Ohrid, September 2003.

ASCE Transportation and Development Institute (T&DI)– Charter Member

ASCE National Committee on Environmental Issues (Highway Division) – Member

ITE Transportation Education Council (TEC) – Member

## **Course and Curriculum Development**

### **Graduate Courses Developed and Taught**

Urban Goods Movement

Freight Terminals and Distribution Facilities

Transportation Systems Analysis

Freight Transportation

Environmental Management of Maritime Infrastructure

Maritime Transportation

Port Planning, Management and Operations

Security and Safety in Maritime Transportation and Port Operations

### **Undergraduate Courses Developed and Taught**

Introduction to Transportation Engineering

Introduction to Transportation Planning

Introduction to Transportation Systems

Mass Transit Systems

## **Student Research Supervision and Doctoral Committees:**

### **Doctoral Dissertation Advisor**

Ya Wang (Chair) “Bi-Level programming approach for the shipper-carrier network problem- Pricing and Investment Strategies at a Sea Port within the Framework of a Freight Network” completed in 2001 (now with VTA, Santa Clara county, CA)

Krunoslav Peric (Chair) “A Bi-level model for Intermodal Transportation Network Analysis” completed in 2005 (now Director and Head of Department, Institut IGH, Croatia)

- Jihong Chen (Chair) “Using Microsimulation to Evaluate Conditional Transit Signal Priority Strategies on Corridor and Network Levels” completed in May 2006 (now with Southern New Hampshire Planning Commission)
- Neha Mittal (Chair) “Empty Intermodal Container Management” completed in 2008 (now Assistant Professor at Temple University, Fox School of Business)
- Golias Michail (Chair) “Berth Planning Models and Algorithms” completed in 2007 (now Associate Professor with University of Memphis and Associate Director for Research with the Intermodal Freight Transportation Institute)
- Nadereh Moini (Chair) “Modeling the Interrelationship between Vessel and Truck Traffic at Marine Container Terminals” completed in 2010 (now Research Assistant Professor with the University of Illinois at Chicago)
- Hyangsook Lee (chair) “Modeling Stakeholder Interactions in an International Freight Transport System” completed in May 2011 (now with Hongik University, Korea)
- Heidi Arlene Taboada Jimenez (co-chair): “Practical Approaches to the Solution of Multiobjective Optimization” completed in May 2007 (now Assistant Professor with the University of Texas at El Paso, Department of Industrial, Manufacturing and Systems Engineering)

### **M.S. Thesis Supervisor**

- Preethi Narayanan (chair): “Impact of Bus Transit Vehicles on Highway Infrastructure” (M.S. Thesis) – December 2002
- Tejal Patel (chair): “Comparative Evaluation of Transportation Planning Tools” (M.S. Thesis). January 2004.
- Neha Mittal (chair): “A Statistical Approach for Estimation of Truck Volumes and Flows in New Jersey” (M.S. Thesis) – October 2004.
- Michael Golias (chair): “Data Mining and Bayesian Inference in Truck Demand Modeling” (M.S. Thesis) – October 2004.
- Srihari Janakiraman (chair): “Location-Routing Problems in Multi-Stage Supply Chains: A Simultaneous Solution with Macro and Micro-Scale Applications” (M.S. Thesis) – May 2006
- Sravan Krovidi (chair): “Berth Allocation Planning Tool – Functional Usage” (M.S. Thesis). May 2006.
- Ti Zhang (chair): “Modeling Cross-Docking Operation” (M.S. Thesis). May 2009
- Patrick Dougherty (chair): “Modeling Port Truck Drayage Operations” (M.S. Thesis). October 2010

### **Doctoral Dissertation Committee Member**

Member of ten (10) Doctoral Dissertation Committees (Dilruba Ertekin - 2003, Dima Jawad - 2003, Bekir Bartin – 2005, Ilgin Yasar – 2005, Jyot Desai 2005, Nebahat Noyan – 2006, Jung Beom Lee – 2006, Jeevanjot Singh - 2007, Ozlem Yanmaz Tuzel - 2008, Mustafa Anil Yazici -

2009)

### **M.S. Thesis Committee Member**

Member of seventeen (17) M.S. Thesis Committees (Karen Yunk, Anne Marie Meehan, Bekir Bartin, Gaurav Jaiswal, Lu Ding, Jignesh Shah, Aleek Data, Manaar Ashara, Ankita Patel, Harsh Doshi, Neha Rathi, Thomas Bongiovani, Nebahat Noyan, Jyot Desai, Jeevanjot Singh, Ozlem Yanmaz-Tuzel, Andrew Ludasi)

### **Supervisor of 14 Independent Studies and Honors Theses**

Development and Application of a Transportation Planning Model (Fall 1997-Spring 1998), Honors Thesis, Annette Ellis

Integration of a Transportation Planning Model with a Geographic Information System (Fall 1998-Spring 1999), Honors Thesis, Michael Haynes

Development of a Combined Mode Choice-Traffic Assignment Model that Evaluates Rail Operating Regimes (Fall 1995), Independent study project, Matthew Weaver

Mode Choice Modeling for Access to Logan International Airport (Fall 1996-Spring 1997), Independent study project, Graham Briggs.

Evaluation of US Bus Transit Systems: A Data Envelopment Analysis Approach (Fall 1997-Spring 1998), Independent study project, Wendy Birkhead

Using TransCAD to Develop a Model of Commodity Flows in Pennsylvania (Spring 1998), Independent study project, Alex Herr

Simulating a Commuter Network Using CORSIM (Spring 1998), Independent study project, Kate Detterline

Route Development for Mass Transit Systems - A Case Study of the Lehigh and Northampton Transit Authority (Spring 1998), Independent study project, Julie Gipps

Using GIS to Develop a Regional Truck Route Network (Spring and Summer, 1997), Research project, Sara Benson

Assignment of Freight Flows over New Jersey Highways (Summer 1997), Research project, Jakub Rowinski.

Development of an Origin-Destination Matrix of Commodity Flows in Pennsylvania (Spring and Fall, 1998), Research project, Jeremy Brodney

Analysis and Evaluation of Intermodal Commuter Corridors in New Jersey (Fall 1999), Research project, Steven Sivak and Nancy Berrier.

## **Scientific Publications**

*The listed publications have received 575 citations in Google Scholar (Boile, public profile, accessed 30 October 2014) and 351 citations in SCOPUS (record of all publications, accessed 30 October 2014)*

*An “\*” marks papers with students as lead authors*

## Refereed Journal Publications (Published)

1. Boile, M., Sdoukopoulos E. (2014) "Supply Chain Visibility and Security – the SMART-CM project solution" *International Journal of Shipping and Transport Logistics*. Vol.6, No. 3. Pp 280-292 (Impact Factor 1.340)
2. \*Lee, H., Boile, M. and Theofanis, S. (2014) "Modeling Carrier Interactions in an International Freight Transportation System", *International Journal of Information Systems and Supply Chain Management*, 7(1), pp. 15-39 (SJR Indicator 0.38)
3. \*Lee, H., Boile, M., Theofanis, S. and Choo, S. (2014) Game Theoretical Models of the Cooperative Carrier Behavior. *KSCE Journal of Civil Engineering*. Vol. 18, Issue 5, pp 1528-1538 (Impact Factor 0.511)
4. \*Lee, H., Boile, M., Theofanis, S., Choo, S. and Lee, K. (2014) A freight network planning model in oligopolistic shipping markets. *Cluster Computing*, Vol. 17, Issue 3, pp. 835-847. (Impact Factor 0.78)
5. \*Lee, H., T. Zhang, M. Boile, S. Theofanis, S. Choo (2013) "Designing an Integrated Logistics Network in a Supply Chain System" *KSCE Journal of Civil Engineering* 17(4), pp. 806-814 (Impact Factor 0.511)
6. \*Peric, K., M. Boile (2013) "A Bilevel Model for Transit Vehicle Allocation" *Gradevinar*, Vol. 65, Issue 3, pp. 213-222. (Impact Factor 0.216)
7. \*Mittal N., Boile M., Baveja A., Theofanis S. (2013) "Incorporating Maritime Stakeholder Perspectives for Implementing an 'Inland-Depots-for-Empty-Containers' System Using an Analytic Hierarchy Process" *International Journal of Information Systems and Supply Chain Management*. Vol. 6, Issue 1, pp. 1-23. (SJR Indicator 0.38)
8. \*Lee, H., M. Boile, S. Theofanis, S. Choo (2012) "Modeling the Oligopolistic and Competitive Behavior of Carriers in Maritime Freight Transportation Networks" *Proceedings of EWGT2012 - Procedia-Social and Behavioral Sciences*. Volume 54 pp. 1080-1094 (SJR Indicator 0.15)
9. \*Mittal N., Boile M., Baveja A., Theofanis S. (2012) "Determining Optimal Inland-Empty-Container Depot Locations under Stochastic Demand" *Research in Transport Economics Freight Transportation and Sustainability*. Vol. 42, Issue 1, pp. 50-60. (SJR Indicator 1.412)
10. Boile, M., H. Lee, S. Theofanis (2012) "Hierarchical Interactions between Shippers and Carriers in International Maritime Freight Transportation Networks" *Transport Research Arena 2012 - Procedia-Social and Behavioral Sciences*. Volume 48 pp. 3651-3660. (SJR Indicator 0.15)
11. \*Moini, N., M. Boile, S. Theofanis, W. Laventhal (2012) "Estimating the Determinant Factors of Container Dwell Times at Seaports" *Maritime Economics and Logistics*, Vol. 14, Issue 2, pp. 162-177 (Impact Factor 1.045)
12. Boile, M., Morrall T., Roland F., Sdoukopoulos E. (2012) Technology Gaps and Research Priorities to Support the EU Maritime Transport Policy. *Transport Research Arena 2012 - Procedia-Social and Behavioral Sciences*. Volume 48, p. 2433-2443 (SJR Indicator 0.15)
13. \*Golias M.M., Saharidis G.K.D., Boilé M., Theofanis S. (2012) Scheduling of inbound trucks at a cross-docking facility: Bi-objective vs bi-level modeling approaches. *International Journal of Information Systems and Supply Chain Management*. 5(1):20-37. (SJR Indicator 0.38)
14. Saharidis G., Boile M., Theofanis S. (2011) "Initialization of the Benders Master Problem using Valid Inequalities Applied to Fixed-Charge Network Problems" *Expert Systems with Applications* 38 (2011) 6627-6636. (Impact Factor 1.965)

15. \*Golias M.M., Boile M., Theofanis S., Taboada A.H. (2010) “A multi-objective decision and analysis approach for the berth scheduling problem”. *International Journal of Information Technology Project Management* 1(1), 54-73 (Average Impact Factor 0.36)
16. \*Golias M., Boile M., Theofanis S. (2010) “The discrete berth scheduling problem: Towards a unified mathematical formulation” *Journal of the Transportation Research Board* 2168, 1-8 (Impact Factor 0.556)
17. \*Golias M.M., Boilé M., Theofanis S., Efstathiou C. (2010) The berth scheduling problem: Maximizing berth productivity and minimizing fuel consumption and emissions production. *Transportation Research Record: Journal of the Transportation Research Board*, 2166, 20-27. (Impact Factor 0.556)
18. \*Golias M.M., Boile M., Theofanis S. (2010) “A  $\lambda$ -opt based heuristic for the discrete berth scheduling problem”. *Transportation Research Pt. C* 18(5), 794-806. (Impact Factor 2.820)
19. \*Zhang T., Saharidis, G., Theofanis S. Boile M. (2010) “Scheduling of Inbound and Outbound Trucks at Cross-Docks – Modeling and Analysis” *Transportation Research Record: Journal of the Transportation Research Board* Vol. 2162, pp. 9-16. (Impact Factor 0.556)
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83. Boile, M.P. and Brodney J. (1999). "Analysis of Commodity Flows at a County Level." Proceedings of the 41<sup>st</sup> *Annual Meeting of the Transportation Research Forum*, pp 267-298.
84. Boile, M.P., Benson S. and Rowinski J. (1998). "Assignment of Commodity Flows Over the New Jersey Highway Network." Proceedings of the 40<sup>th</sup> *Annual Meeting of the Transportation Research Forum*, Vol. I, pp 186-211.
85. Boile M. P., Roth M. J., and Ruggles R. (1997) "Students Attaining a Totally Inspirational and Successful First Year." *Contributed Paper Proposals of the 17th Annual Lilly Conference on College Teaching*, Oxford, OH.

#### **Non Refereed Trade Journal Publications**

1. Theofanis S., Boile M. (2014) "The use of LNG in seaside and landside operations: Challenges and prospects". *Shipping*. June 2014. Pp 48-49.
2. Theofanis S., and Boile M. (2013) "Liner Shipping Network Restructuring, the P3 Alliance and the Effect on the Mediterranean Ports" *Shipping*, December 2013
3. Theofanis S., Boile M. (2013) "The effect of the Economic Adjustment Programmes (EAP) on the Port Restructuring Policies of the Southern European Countries – A Preliminary Overview" *Shipping*. November 2013. Pp 22-23
4. Μποϊλέ Μ., Θεοφάνης Σ. (2012) "Η Χρήση του Υγροποιημένου Φυσικού Αερίου στις Ναυτιλιακές Μεταφορές και τις Λιμενικές Δραστηριότητες" *Supply Chain*
5. Μποϊλέ Μ., (2011) «Η πρόσφατη «απελευθέρωση» των εμπορευματικών Μεταφορών στη χώρα μας κάνει πιο άμεση την ανάγκη για ένα Εθνικό Παρατηρητήριο Μεταφορών» *Supply Chain*, February 2011
6. Γιαννόπουλος Γ., Μποϊλέ Μ., (2011) «Μετά τον νόμο για τις εμπορευματικές μεταφορές, τι?» *Supply Chain*, March 2011
7. Μποϊλέ Μ., (2011) «Διακίνηση και Διανομή Φορτίων σε Πόλεις-Λιμάνια: Ένα Παγκόσμιο Πρόβλημα που απαιτεί «Τοπικές» Λύσεις» *Supply Chain*, May 2011
8. Μποϊλέ Μ., (2011) «Μορφές Συνεργασίας στην Αγορά Εμπορευματικών Μεταφορών και Εφοδιαστικής –Διεθνές Περιβάλλον» *Supply Chain*, November 2011
9. Μποϊλέ Μ., (2011) «Νέες Τάσεις και Προοπτικές Συνεργασιών στην Αγορά Εμπορευματικών Μεταφορών και Εφοδιαστικής στην Ελλάδα – Ένα ακόμα όπλο για την αντιμετώπιση της οικονομικής κρίσης» *Supply Chain*, November 2011
10. Boile, M. (2006) "Empty Marine Container Management – Global trends and Challenges" *Shipping*, No 418, Vol. 264
11. Gaspard J.G. and Boile M.P. (2001) "A New Intermodal Transportation Paradigm" in *Writing the Wrongs*, a volume on current transportation issues, presented to the honorable

Norman Mineta, Secretary, U.S. Department of Transportation, by the Women in Transportation Seminar.

## Book Chapters

Port Infrastructure Finance – Chapter 8: Experiences with Bond Financing and Innovative Transport Project Financing in the United States – Some Evidence from Port and Port Related Projects. Co-author: Theofanis S. Book edited by: H. Meersman, E. Van de Voorde, T. Vanelslander. ISBN 978-0-415-72006-9. Informa Law from Routledge, June 2014.

Developments in Maritime Transportation and Exploitation of Sea Resources - Volume 2 Maritime Transportation: Assessing the impact of marine terminal gate operational and infrastructure improvements. Co-authors: Anagnostopoulou A., Sdoukopoulos E. Book edited by: G. Guedes Soares and F. Lopez Pena. ISBN: 978-1-138-00162-6. pp. 625, CRC Press Taylor & Francis Group. 2014. Access online at: <http://www.crcpress.com/product/isbn/9781138001244#>

Evolutionary computation – Chapter Title: Scheduling of Berthing Resources at a Marine Container Terminal via the use of Genetic Algorithms: Current and Future Research. Co-authors: Golias M. and Theofanis S. Book edited by: Wellington Pinheiro dos Santos, ISBN 978-953-307-008-7, pp. 572, October 2009, I-Tech, Vienna, Austria

Transport Science and Technology – Chapter Title: The Role of Liner Shipping within an Intermodal System – The Port Community Case and the Port Authority Investment Problem. Co-authors: S. Theofanis and L. Spasovic. Publisher: Elsevier. K. Goulias Editor. 2007.

Transport Science and Technology – Chapter Title: Infrastructure Development to Support the Floating Accommodation Program of the Athens 2004 Olympic Games – Prospects and Challenges. Co-author: S. Theofanis. Publisher: Elsevier. K. Goulias Editor. 2007.

## Book Reviews

Marcel Dekker, Inc., Publishers. Review of Civil Engineering Systems by P. McDonald (1999).

Eno Transportation Foundation Intermodal Transportation: Moving Freight in a Global Economy by Hoel, Lester A., Giuliano, Genevieve, and Meyer, Michael D., eds. ISBN 978-0-9718175-5-5 review published in the *Journal of the Transportation Research Forum* Vol. 51, No. 1 (Spring 2012) p. 139-140

## Research Projects

Project Manager	“Slow steaming and synchro-modal solutions for distressing the supply chain – SEAMLESS” (under review)
Project Manager	“Training of Young Port Workers and Cargo Handling Professionals in New Technologies in Cargo Handling in Ports and Intermodal Terminals – Y-PORTRAIN (under review)
Scientific Coordinator	“Σύστημα Περιβαλλοντικής Διαχείρισης Κυκλοφορίας σε Αστικό Περιβάλλον- TEMR” Budget: euro 93,250. June 2014 – Sept 2015
Project Manager	“European PORTWorkers TRAIning Scheme – EUPORTRAITS” EC FP7, CSA-CA. Budget: euro 1,4 M. 2013 - 2016



Project Manager	“Cargo Ferry Operations Between Thessaloniki, Greece, and Novorossiysk, Russia. Budget: euro 11,800. April 2014 – June 2014.
Project Partner/ Team Leader	“Support the Uptake of Innovative Sustainable Urban Mobility SOLUTIONS - SOLUTIONS” EC FP7, CSA-SA. Budget: Euro 2M 2013-2016
Project Partner/ Team Leader	“Ex-Post Evaluation of Transport Research and Innovation in the FP7 ‘Cooperation’ Programme - Tri-Value” EC FP7, CSA-SA. Budget: Euro 498,211. 2013-2014
Team Leader	“Strategic Study on Transport for the Development of the National Strategic Reference Framework” Ministry of Development, Greece. Budget: Euro 15000. Dec. 2012 – March 2013.
Project Manager	“Application of the Road Equivalent Tariff Concept” Ministry of Development, Greece. Budget: Euro 42250. Dec 2011 – April 2013
Project Manager	“Estimation of RoadTransport Costs” Hellenic Syndicate of Land Goods Transport. Budget: Euro 15000. Dec. 2012-Feb. 2013.
Project Partner	“ERA NET Transport III - ENT III” EC-FP7, CSA-CA. Budget: Euro 2.3M. Nov. 2012-Nov. 2015.
Project Manager	“Advanced Cargo Transport Information Services – ACTIS” National Programme SYNERGASIA” Budget: Euro 499075. September 2013 - May 2015.
Project Manager	“Education and Training Requirements and Certification Procedures of the Logistics Sector in Greece”. (budget and project details, confidential) World Bank, Nov – Jan 2013.
Project Manger	“Recommendations and Policies to Enhance Airport Environmental Co-Modality – AEC for Passenger and Freight Transport through Research Clusters and SMEs Participation – CARE” Contract through the Clean Aerospace Regions (CARE) Project, Aerospace Valley. Budget: Euro 25000. Feb. 2013 – April 2013.
Project Partner/ Team Leader	“Interdisciplinary Research Collaboration in the field of Energy and Environment – Collaboration-CERTH” Ministry of Education, Programme KRIPIS. Budget: Euro 1.13M. Jan. 2013 – July 2015.
Project Partern/ Team Leader	“Promotion of Port Communities SMEs role in Energy Efficiency and GREEN Technologies for Berthing Operations – GREENBERTH” STC Programme MED. Budget: Euro 1.616M. Nov. 2012 – May 2015
Project Partern/ Team Leader	“Smart Green Innovative Urban Logistics for Energy Efficient Mediterranean Cities – SMILE” STC Programme MED. Budget: Euro 1.872M. Nov. 2012 – April 2015
Project Manager	“Future Prospects on Transport Evolution and Innovation Challenges for the Competitiveness of Europe - FUTRE” EC-FP7. CSA-SA. Budget: Euro 877000. Nov 2012 – Oct 2014.
Project Manager	“ Network of European – Asian Rail Research Capacities - NEAR2” EC-FP7, CSA-CA. Budget: Euro 887000. Dec 2012 – Nov 2014
Project Manager	“Development of an optimization-based simulation platform for modeling and analysis of freight transport operations through marine container terminals – COMPETE” National Program “Thalis”. Budget: Euro 415,000. October 2011 – October 2014.

Team Leader “Carbon Footprint of Freight Transport - COFRET” EC FP7 Collaborative Project. June 2011 – November 2013

Project Manager “Road Safety Campaign” National Project. Budget: Euro 22,000. September 2010 – December 2013

Team Leader “European Transport Research Area International cooperation activities – EUTRAIN” (EC FP7 TPT.2011.3-1) Budget: Euro 314,500. October 2011- October 2013.

Team Leader “Supporting the Transport Research Arena 2012 Conference – TRA2012” (EC FP7 SST.2011.6-1) Budget: Euro 672,500. June 2011 – April 2013.

Project Manager “Maritime Policy Support-MARPOS” EC FP7 (FP7-SST-2007-RTD 1). Budget: Euro 479,820. January 2009-December 2010

Team Leader “European e-Freight capabilities for Co-modal transport, e-Freight” EC FP7 (SST-2008-TREN-1, SST.2008.2.1.5). Budget: Euro 8,389,250 (HIT budget 132,525 Euro). September 2009-September 2012.

Work Package Leader “Smart Container Management – SMART CM” EC FP7 Collaborative Project. Budget: Euro 10,235,084 total, Euro 6,499,942 EC contribution. August 2008 – August 2011.

Principal Investigator “Application of CRS&SI Technologies to Multimodal Short Sea Freight Shipping System (MMSFS)” US Department of Transportation, GMU subcontract Budget \$70,000 January 2010 – January 2012

Principal Investigator “A Novel Methodological Framework for Modeling Flexible Transit Services” Federal Transit Administration. Budget: \$82,340 September 2009 – August 2011

Co-Principal Investigator “Growth Forecasting for Public Transit System Planning in a Changing World” Federal Transit Administration. Budget: \$71,940. September 2009 – August 2011

Principal Investigator “A Cooperative Agreement to Evaluate and Compare Federal Formula Grant Programs” Budget \$200,000. September 2009 – September 2010

Principal Investigator “Short Line Rail: Its Role in Intermodalism and Distribution” Center for Advanced Infrastructure and Transportation, US Department of Transportation. Budget: \$30,000 May 2008 – April 2009

Principal Investigator “Development of an Integrated Transit Asset Management Framework” Federal Transit Administration. Budget: \$30,000. May 2007-May 2008

Co-Principal Investigator “Using Transit to Evacuate High-Density Clusters in Urban Areas- A Microsimulation Based Integrated Tool” Federal Transit Administration. Budget: \$30,000. May 2007-May 2008

Principal Investigator “Feasibility of Freight Villages in the NYMTC Region” NYSDOT/New York Metropolitan Transportation Council (NYMTC). Budget: \$424,382. Project duration: 5/07 – 12/09

Principal Investigator “Variability of Travel Times on New Jersey Highways” Sponsor: NJDOT. Budget: \$120,000. 2/07 – 8/08

Co-Principal Investigator “The Global Logistics Chain: A 21<sup>st</sup> Century Change Agent” Sponsor: National Science Foundation – Human and Social Dynamics. Budget: \$649,931 12/06 – 12/08

Principal Investigator “Ferry Parking and Landside Access” Sponsor: NYSDOT/New York

Metropolitan Transportation Council (NYMTC). Budget: \$66,282.  
Project duration: Eighteen months. 11/06 – 5/08

Co-Principal Investigator “Strategic Distribution Business Promotion Plan – Phase I” Sponsor:  
Port Authority of New York and New Jersey. Budget: \$199,797. 5/06 –  
11/06

Project Manager “Partnership to Maximize Port Industry Performance – Integration of  
(RU-NB) and Technical Port Information Systems, Processing and  
Control Equipment, and Microsimulation Tools” Sponsor: National  
Science Foundation – Partnerships for Innovation. Budget: \$599,436  
4/06 – 3/09

Principal Investigator “Evaluation and Testing of Regional Models – Phase I” Sponsor:  
NYSDOT/NYMTC. Budget: \$197,297 5/06 – 4/08

Principal Investigator “Feasibility of Establishing a Virtual Container Yard in the New York –  
New Jersey Region” Sponsor: USDOT/UTRC. Budget: \$99,986 7/05 –  
6/06

Project Manager “Feasibility Study to Establish a Freight Transportation Center of  
Excellence at Rutgers, The State University of New Jersey” Sponsor:  
Rutgers University Academic Excellence Fund. Budget: \$160,000. 5/06  
– 12/06

Principal Investigator “Landscape Enhanced Cue Guidance” Sponsor: NJDOT. Budget:  
\$157,908. Anticipated starting date subject to funding availability

Principal Investigator “Estimation of the Average Number of Trucks Visiting Non-Residential  
Sites in New Jersey” Sponsor: NJDEP. Budget: \$10,000. 11/05 – 3/06

Principal Investigator “Development of a Dynamic Laboratory for Freight Intermodal and  
Maritime Engineering Instruction and Research” Sponsor: Advisory  
Committee for Instructional Computing, Rutgers University. Budget:  
\$13,000. 8/05 – 7/06

Principal Investigator “Implementation of Construction Quality Assurance (CQA) Measures  
for Harbor Sediments and Processed Dredged Material (PDM)  
Placement” Sponsor: NJDOT/USEPA. Budget: \$40,700. 11/04 – 11/05.

Co-Principal Investigator “Holland Tunnel Entrance and Exit Consolidation Study” Sponsor:  
NJDOT. Budget: \$35,000. 8/04 – 8/05

Co-Principal Investigator “Solidification of Soft River Sediments Using Deep Soil Technology”  
Sponsor: NJDOT. Budget: \$418,000. 7/04 – 7/05

Co-Principal Investigator “Transportation Safety Resource Center – Year 1” Sponsor:  
NJDOT/FHWA. Budget: \$500,000. 7/04 – 6/05

Principal Investigator “Empty Intermodal Container Management” Sponsor: NJDOT/FHWA.  
Budget: \$144,564. 4/04 – 3/06

Co-Principal Investigator “Biohazard Detection and Security of Critical Transportation  
Infrastructure” Sponsor: NSF. Budget: \$58,236. 3/03 – 3/04

Principal Investigator “IT Assisted Intermodal Freight Network Modeling for Transportation  
Contingency Planning” Sponsor: AAAS/NSF, Women’s International  
Science Collaboration Program. Budget: \$4,000 travel grant. April 2002

Co-Principal Investigator “Operational Improvements at Traffic Circles” Sponsor: NJDOT.  
Budget: \$422,524. 1/03 – 12/05

- Principal Investigator “Develop a Training Programme to Improve Work Zone Safety – PREVENT” Sponsor: Leonardo DaVinci Programme, European Commission. (EL/03/B/F/PP-148205). Budget: Euro 90,500. 2003 - 2005
- Principal Investigator “The Future of Transportation Modeling” Sponsor: NJDOT/NJ Transit. Budget: \$246,358. 1/02- 12/04
- Principal Investigator “Estimation of Truck Volumes and Flows” Sponsor: NJDOT. Budget: \$400,000. 1/02 – 8/04
- Principal Investigator “Technical Solutions to Overcrowded Park & Ride Facilities” Sponsor: USDOT/NJDOT. Budget: \$47,251. 1/02 –12/03
- Principal Investigator “Infrastructure Costs Attributable to Commercial Vehicles” Sponsor: NJDOT. Budget: \$78,200. 1/01 – 3/02
- Co-Principal Investigator “Global Intermodal Freight Transport System - GIFTS” Sponsor: Information Societies Technology Programme, European Commission. Budget: Euro 392,462. 2001-2004.
- Co-Principal Investigator “Evaluation of Adaptive Control Strategies for New Jersey Highways” Sponsor: NJDOT. Budget: \$250,000. 1/01 – 8/04
- Principal Investigator “Development of a Transportation E-Teaching and Learning Facility” Sponsor: Advisory Committee for Instructional Computing, Rutgers University. Budget: \$36,985. 8/01 – 12/01
- Co-Principal Investigator “A Mobile Self-Sufficient Traffic Data Collection Unit” Sponsor: Engineering Information Technology/Equipment Leasing Fund, Rutgers University. Budget: \$30,000. 8/01 – 10/01
- Principal Investigator “University-Based Research, Education and Technology Transfer Program” Sponsor: PennDOT. Budget: \$5,000. 1/98 – 12/98
- Principal Investigator “Analysis and Evaluation of Intermodal Commuter Corridors in New Jersey” NCTIP/USDOT. Budget: \$15,000. 9/99 – 3/00
- Principal Investigator “Supplemental Grant to Assist in the Multi-Modal Freight Transportation: Regional Data Development and Analysis” Sponsor: NCTIP/USDOT. Budget: \$10,000. 9/96 – 12/97

## Invited Presentations

1. Boile M., (2014) Enhancing Airport Environmental Co-Modality, Green Mobility Conference, Hamburg, Germany (forthcoming, 24 November 2014)
2. “Κατευθύνσεις & Εξελίξεις στην Έρευνα των Ναυτιλιακών Μεταφορών στην Ευρώπη” Ελληνικό Ινστιτούτο Ναυτικής Τεχνολογίας. Μάρτιος 2014
3. “Challenges and Opportunities in Dry Ports, Freight Villages, and Freight Facilities Development – Lessons from High Income Countries” World Bank. January 15, 2014.
4. “SMILE and related initiatives” Transnational Workshop – Sustainable Logistics in Europe: How to mitigate negative impact of freight transport. Breda, The Netherlands, 3 June 2014. Boile M., (2014) Enhancing Airport Environmental Co-Modality, Green Mobility Conference, Hamburg, Germany
5. “Μελέτη Κόστους Μεταφοράς” Εσπερίδα του Πανελληνίου Συνδικάτου Χερσαίων Εμπορευματικών Μεταφορών με θέμα “Πως η Ελληνική Οδική Μεταφορά Μπορεί να Συνεισφέρει στην Ανάπτυξη της Εθνικής Οικονομίας” 27 Ιουνίου 2013, Αθήνα.

6. Boile M., (2014) “Sustainable Port Cities” Panel Discussant. Sustainable Logistics Conference. The Hague, The Netherlands 6<sup>th</sup> February 2014
7. “Transport Innovation Deployment for Europe” TIDE CBA Workshop, Invited Participation. 25-26 April, 2013.
8. “Developing the Logistics Sector – Training and Certification” World Bank Workshop. Athens, 31 November, 2014.
9. “What can be learned from the United States? (e.g. municipal bonds used to finance ports)” Expert Meeting on How to Finance Future Port Infrastructure Investments. University of Antwerp. 22-23 November, 2012.
10. “New Models of Stakeholder Collaboration in Freight Transport and Logistics – Coping with the Economic Crisis” 13<sup>th</sup> National meeting of the Hellenic Chambers Transport Association, Argos, October 2011.
11. “Developments in Research and Innovation in the field of Freight Transport and Logistics – The EU Initiatives” 3<sup>rd</sup> International Expo, Supply Chain and Logistics. Athens, February 2011.
12. “Maritime Security – Safeguarding ports from organized crime, Securing mass passenger vessels”. EXPOSEC- 10<sup>th</sup> Homeland, Corporate Security and Defense Conference and Expo. Athens, April 2011
13. “Actions of the Hellenic Institute of Transport on Road Safety” ETRC – PRAISE Country Seminar, Greece. Athens, March 2011.
14. “Sustainable Urban Mobility – The Case of Piraeus and the Islands” Prefecture of Piraeus. Piraeus, Greece. March, 2011.
15. “A Green Working Waterfront Works – Jobs – How to green them, protect them and grow them” 2010 Waterfront Conference. The Metropolitan Waterfront Alliance. New York, November 2010.
16. “Maritime Transport Research: Setting the Priorities to Improve System Efficiencies” DevelopMed Roundtable - Mediterranean Ports: Present and Future Challenges. Athens, December 2009
17. “Data Needs and Model Inputs to Port Newark/Elizabeth Roadway Cost/Benefit Analysis” Port Authority of New York and New Jersey. New York, NY. July, 2008.
18. “Freight Village Developments in Europe: Advanced and Challenges Ahead” ACSP-AESOP 2008 Joint Congress, July 8, 2008, Chicago, IL
19. *Simulating Seamlessness: A Preview of Rutgers Powerful New Modeling Tool for Improving Port Throughput Planning*. TransAction, Atlantic City, New Jersey, Απρίλιος 2008.
20. “US Experience” Plenary Session at: Co-Modality; An Intermodal Key to Sustain Green Logistics. Valencia, March 6-7, 2008.
21. “Partnership for Maximizing Port Industry Performance” National Science Foundation Partnerships for Innovation Workshop, March-April 2008.
22. “Οι Πρόσφατες Εξελίξεις στο Παγκόσμιο Σκηνικό Παροχής Λιμενικών Υπηρεσιών: Ο Ρόλος των Επενδυτικών Κεφαλαίων Υποδομών. Ποιό θα είναι το Επόμενο Βήμα;” Συνέδριο του Προγράμματος Εμπορευματικών και Ναυτιλιακών Μεταφορών του Αριστοτελείου Πανεπιστημίου με θέμα «Εξελίξεις και Πρακτικές στην Οργάνωση, Λειτουργία και Διοίκηση των Λιμένων και Λιμενικών Τερματικών Εγκαταστάσεων» Θεσσαλονίκη, 10 Ιανουαρίου 2008
23. “The Economic Impact of Trade Imbalance on Ports” Προσκεκλημένη ομιλήτρια στο μάθημα Advanced Port Economics στο Μεταπτυχιακό Πρόγραμμα του Institute for

- Transport and Maritime Management Antwerp (ITMMA) University of Antwerp. November 2007
24. "Evaluating Strategies to Improve Truck Operations in the Port Region" Port Authority of New York and New Jersey. New York, NY. May, 2007
  25. "Port Congestion and the Impact of Pricing Policies" Προσκεκλημένη ομιλήτρια στην Αρχή Λιμένων Νέας Υόρκης – Νέας Υερσέης (PANYNJ) November 2007
  26. "Research Issues in Freight Transportation – Congestion and System Performance" Organized by the Transportation Research Board Freight Systems Group, Marine Group, and Freight Transportation Data Committee. Invited Panel Member. December, 2007
  27. "Overview of the PANYNJ Planning and Capital Investment Program" NJ Common Grounds Alliance Planning Meeting. 10 March 2007.
  28. "Partnership to Maximize Port Industry Performance – Can Advanced Research Methods Assist in Practice? The Case of Port of New York and New Jersey" Conference on Research Issues in Freight Transportation – Congestion and System Performance. National Academy of Sciences, October 22-23, 2007. Washington DC
  29. "A Multi-Objective Formulation of the Berth Allocation Problem" Institute for Operations Research and Management Science (INFORMS) Seattle, Washington, 4-7 November 2007
  30. "Concentration and Ownership in Global Terminal Operations: What is the next step?" Προσκεκλημένη ομιλήτρια στην ενότητα με θέμα: Globalization and Freight Transportation in a Containerized World του 2007 Conference of the Association of American Geographers. April 17-21 2007. San Francisco, California, US.
  31. "Seaside Container Terminal Operations" Graduate Seminar Series, University of Washington. May 11, 2007. Seattle, Washington, US.
  32. "Our Port in the Global Economy" United Nations Association. June 1, 2006. Newark, New Jersey, US.
  33. "Intermodal Network Modeling – Freight and Maritime Systems Analysis" Graduate Seminar Series, Center for Supply Chain Management, Rutgers University. April, 2006. Newark, New Jersey, US.
  34. «ILCs and Freight Villages in the US – Experiences and Recent Developments" 15<sup>th</sup> Anniversary of Europlatforms, The European Association of Freight Villages. December 18, 2006. Paris, France.
  35. "An Overview of Global Container Repositioning Issues" Keynote Presentation at the 3<sup>rd</sup> Container Owners Association (COA) Members Meeting, June 23, 2006. Antwerp, Belgium.
  36. "Empty Marine Container management in a Port Megacity Region" North Jersey Transportation Planning Authority, November 9, 2005. Newark, New Jersey, US
  37. "Empty Marine Container management in a Port Megacity Region, New York Metropolitan Transportation Council, October 19, 2005. New York, New York, US
  38. "Estimation of the Average Number of Trucks Visiting Non-Residential Sites in New Jersey" New Jersey Department of Environmental Protection. May 8, 2005. Trenton, New Jersey, US
  39. "Truck Accident modeling" Metropolitan Section--New York and New Jersey of the Institute of Transportation Engineers (ITE), November 2004, New Brunswick, New Jersey, US
  40. "The Role of Shipping in Multimodal Transportation: Building the Future" Panel Participant at the Med Ports 2002. April 23, 2002. Athens, Greece
  41. "The New Intermodal Expeditior and Its Potential to Reduce Transit Operating Subsidies" American Public Transit Association Bus and Paratransit. May 5-9, 2002. Minneapolis, Minnesota, US

42. “Multi-modal: Bus and Intermodal Transportation” Operation Stimulus Conference – Collaborative Transportation for Supply Chain Management Success. January 31 - February 2, 2002. Denver, Colorado, US
43. “A Combined Passenger/Freight Intermodal Transportation System” Presentation to a delegate from China Academy of Transportation Sciences, Ministry of Communication, China, at the University of Denver, June 2001. Denver, Colorado, US
44. “Freight Modeling” New York Metropolitan Transportation Council (NYMTC) Freight Transportation Working Group, April 25, 2001. New York, New York, US
45. “Intermodal Transportation” American Society of Civil Engineers Lehigh Valley Section meeting, September 21, 2001. Walnutport, Pennsylvania, US.
46. A Methodological Framework for Optimizing Bus Transit Service Coverage. Metropolitan Section--New York and New Jersey of the Institute of Transportation Engineers (ITE), October 1993. Newark, New Jersey, US

## Presentations in Scientific Conferences

1. Αναγνωστοπούλου Α., Ρεπούσης Π., Ταραντίλης Χ., Μποϊλέ Μ., (2014) “Επίλυση του Προβλήματος Δρομολόγησης Στόλου Οχημάτων με Δυναμικές Παραγγελίες Πελατών με τη Χρήση Πολλαπλών Σχεδίων” 6ο Συνέδριο για την Έρευνα στις Μεταφορές στην Ελλάδα. Θεσσαλονίκη, Ελλάδα
2. Μαργαρίτης Δ., Μποϊλέ Μ. (2014) “Σύγκριση Στάθμης Θορύβου με Κίνηση και χωρίς Κίνηση Οχημάτων στο Κέντρο της Θεσσαλονίκης” 6ο Συνέδριο για την Έρευνα στις Μεταφορές στην Ελλάδα. Θεσσαλονίκη, Ελλάδα
3. Μποϊλέ Μ., Θεοφάνης Σ., Σδουκόπουλος Ε., Moini N., Μαργαρίτης Δ., (2014) “Αξιολόγηση των Επιπτώσεων ενός Συστήματος Προγραμματισμένων Αφίξεων στις Πύλες Εισόδου ενός Λιμενικού Σταθμού Διαχείρισης Εμπορευματοκιβωτίων μέσω Προσομοίωσης” 6ο Συνέδριο για την Έρευνα στις Μεταφορές στην Ελλάδα. Θεσσαλονίκη, Ελλάδα
4. Boile M. (2014) “User Information Systems and Intermodal Freight Transport: Experiences from the European Maritime Sector and Beyond” Session 653 User Information Systems: Past, Present and Future. TRB Annual Meeting, Washington D.C.
5. Boile M., Betak J., Kortsari A., Chatziathanasiou M., (2014) “The New Silk Road – International Rail Transport between Europe and Asia” International Trade and Transport Committee, TRB Annual Meeting, Washington D.C.
6. Mitsakis E., Papanikolaou A., Boile M. (2014) “Impact of the Economic Crisis on Greece’s Transport Sector” Session 209 Transportation Impacts of the Global Economic Crisis. TRB Annual Meeting, Washington D.C.
7. Anagnostopoulou A., Boile M. and Sdoukopoulos E. (2014). Sustainable energy: New challenges for urban distribution, 3rd International Symposium and 25th National Conference on Operational Research, 26th – 28th June, Volos, Greece.
8. Sdoukopoulos E., Boile M., Theofanis S. and Anagnostopoulou A. (2014). Sustainable freight strategies for port cities, 3rd International Symposium and 25th National Conference on Operational Research, 26th – 28th June, Volos, Greece.
9. Anagnostopoulou A., Boile M., Sdoukopoulos E., Theofanis S. and Margaritis D. (2014). Electric Vehicle Routing Problem with Industry Constraints: trends and insights for future research. Transportation Research Procedia. (forthcoming, DOI: 10.1016/j.trpro.2014.10.026)

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13. Reichenbach, M.; Papanikolaou, A.; Boile, M.; Bernardino, J.; Condeço, A.; Schippl, J.; Krail, M. Future mobilities in freight transport - linking future mobility with aspects of competitiveness. First lessons learnt from the FP7 project FUTRE. Vortrag auf der Global Conference on Mobility Futures, University of Lancaster, Großbritannien, 04.-06.09.2013
14. Auvinen, H., M. Boile, V. Ehrlér, O. Eidhammer, A. Lewis, and K. Mäkelä (2012) “Measuring the Carbon Footprint of Freight and Logistics Activity along Supply Chains“ Proceedings of the 19th International Transport and Air Pollution Conference, Thessaloniki, Greece
15. Boile, M. (2012) “Assessing Environmental and Health Implications from Port Drayage Activity“ Proceedings of the 19th International Transport and Air Pollution Conference, Thessaloniki, Greece
16. Boile, M., L. Sdoukopoulos (2011) “Supply Chain Security – The SMART CM Project Solutions” Global Supply Chain Security Conference, London, July 2011.
17. Sdoukopoulos L., M. Boile, E. Gagatsi (2011) “European Maritime Transport Policy and Research Priorities” International Association of Maritime Economists (IAME) Conference, Santiago de Chile, October 2011.
18. Theofanis, S., M. Boile, Dimitriadis D., Xiradakis G. (2011) “Financing Credit Risk Rating of Ro/Ro and RoPax Shipping Companies: An Application to the Greek Coastal Shipping Industry” Transportation Research Board Annual Meeting, Washington D.C. January 2011
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21. Boilé M., Golias M.M., Ivey S. A Bayesian hierarchical network for truck demand modeling. Innovations in freight demand modeling and data: A transportation research board SHRP 2 symposium. 2010, Crowne Plaza Hotel– Dulles Airport, Washington, DC, 2010.
22. Golias, M., Boile M., Theofanis S. (2010) “The Discrete Berth Scheduling Problem: Towards a Unified Mathematical Formulation” 89<sup>th</sup> Annual Transportation Research Board Meeting. January 10-14, Washington D.C.
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26. Lavalenthal W., Theofanis S., Boile M. (2010) “Trends in Global Port Operations and Their Influence on Port Labor: Challenges and Implications for US East Coast Longshoremen” 89<sup>th</sup> Annual Transportation Research Board Meeting. January 10-14, Washington D.C.
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28. Boile, M. (2009) “Η Χωροθέτηση – Ανάπτυξη Κέντρων Εμπορευματικών Μεταφορών στην Ελλάδα” 13<sup>ο</sup> Πανελλήνιο Συνέδριο Logistics, November 13-14, Athens, Greece
29. Golias M., Boile M., Theofanis S. (2009) “An Adaptive Time Window Partitioning Based Algorithm for the Discrete and Dynamic Berth Scheduling Problem” 88<sup>th</sup> Annual Transportation Research Board Meeting. January 11-15, Washington D.C.
30. Zhang, T., G. Saharidis, M. Boile, S. Theofanis (2009) “Modeling and Analysis of Door Layouts at Crossdock Facilities” 3<sup>rd</sup> METRANS National Urban Freight Conference, Long Beach, California.
31. Golias M., Boile M., Theofanis S. (2009) “ A Bi-Level Formulation for the Berth Scheduling Problem with Variable Vessel Release Dates to Reduce Port Emissions” International Conference on Shipping, Port, Logistics Management. April 2-3, Incheon, Korea
32. Theofanis S., Golias M., Boile M., (2009) “A Multi-Objective Berth Scheduling Policy to Optimize Vessel Fuel Consumption and Schedule Integrity” International Transport Economics Conference (ITrEC) June 15-16. Minneapolis, Minnesota
33. Mittal, N., Boile M., Baveja A., Theofanis S. (2009) “A Two-Stage Stochastic Program with Recourse for Analyzing the Effect of Demand Uncertainty in the ‘Inland-Depots-for-Empty-Containers’ (IDEC) System” 88<sup>th</sup> Annual Transportation Research Board Meeting. January 11-15, Washington D.C.
34. Golias, M., G. Saharidis, M. Boile, S. Theofanis, T. Zhang. (2009) “Scheduling Inbound Trucks at a Cross-Docking Facility: A Multi-objective and a Hierarchical Approach” IESM 2009, Montreal, Canada
35. Mastrogiannidou C., Boile M., Golias M., Theofanis S., Ziliaskopoulos A. (2009) “Using Transit to Evacuate Facilities in Urban Areas: A Micro-Simulation Based Integrated Tool” 88<sup>th</sup> Annual Transportation Research Board Meeting. January 11-15, Washington D.C.
36. Theofanis S., Boile M., Golias M. (2009) “Container Terminal Berth Planning: Research Approaches and Practical Challenges – A Critical Review” 88<sup>th</sup> Annual Transportation Research Board Meeting. January 11-15, Washington D.C.
37. Boile M., Moini N., Theofanis S. (2009) “Evaluating the Determinants of Container Dwell Time” 50<sup>th</sup> Annual Transportation Research Forum. March 15-18. Portland, Oregon.
38. Boile M. (2009) “Revisiting Transit Asset Management: Tackling Critical Issues and System Planning” 50<sup>th</sup> Annual Transportation Research Forum. March 15-18. Portland, Oregon.
39. Boile, M. and Theofanis S. Identifying Data Needs to Model and Understand Port Truck Drayage Operations. Transportation Research Board, North American Freight Flows Conference. September 22-23, 2008. Irvine, CA.

40. Golias M., Boile M., Theofanis S. *A 2-opt based heuristic for the machine scheduling problem*. INFORMS 2008 Washington, DC.
41. Boile M., Theofanis S., Golias M., Zhang T. *Truck Scheduling at Crossdocking Terminals*. INFORMS 2008 Washington, DC.
42. Sacharidis G., Boile M., Ierapetritou M., Theofanis S., Golias M. *The Multi-Objective Berth Scheduling Problem with Customer Differentiation: Single-Level vs Bi-Level Optimization*. INFORMS 2008 Washington, DC.
43. Mittal, N., Boile M., Baveja A., Theofanis S. *Analyzing Demand Uncertainty in an Inland Depot for Empty Containers System and Solving a Large-Scale Facility Location Problem*. INFORMS 2008 Washington, DC.
44. Theofanis S., Boile M. “Recent Freight Transportation Policy Agenda in the US and Europe: From Converging Problems to Converging Policies?” AAG Annual Meeting 15-19 Απριλίου 2008. Boston Massachusetts.
45. Boile M., Theofanis S., Golias M. “A 2-opt based heuristic for the minimum service and minimum weighted service time berth allocation problem.” 10th International Conference on Applications of Advanced Technologies in Transportation, Αθήνα, 27-31 Μαΐου2008.
46. Boile M., Theofanis S., Ziliaskopoulos A., Golias M, Mastrogiannidou C. “Using transit to evacuate high density clusters in urban areas– a microsimulation based integrated tool”. 10th International Conference on Applications of Advanced Technologies in Transportation, Αθήνα, 27-31 Μαΐου2008.
47. Theofanis S., and Boile M. “Using DTA Based Microsimulation to Estimate Benefits from the Operation of a Virtual Container Yard (VCY)” 10th International Conference on Applications of Advanced Technologies in Transportation, Αθήνα, 27-31 Μαΐου2008.
48. Boile M, Golias M, Theofanis S. “A Conceptual Approach for the Yard-Berth Operations Asset Management and Resource Allocation at Container Terminals.” 2008 Annual Transportation Research Forum, Texas A&M University, College Station, Texas, 2008.
49. Mittal N., Baveja A., Boile M., Theofanis S. “A Multi-Criteria Decision Making Approach for A Sustainable Development of Inland Depots for Empty Container (IDEC) System in a Region” 2008 Annual Transportation Research Forum, Texas A&M University, College Station, Texas, 2008.
50. Boile M., Theofanis S., Moini N. “Modeling the Relationship between Vessel Activity at the Warf and Gate Traffic at a Marine Container Terminal” 2008 Annual Transportation Research Forum, Texas A&M University, College Station, Texas, 2008.
51. Boile M., Mittal N., Theofanis S., Baveja A. (2008) “Inland Depots for Empty Containers Concept for Effective Regional Repositioning of Empty Containers” 55<sup>th</sup> Annual North America Meeting of the Regional Science Association International. November 2008. Brooklyn, New York.
52. Theofanis S., Boile M., Golias M. “Evaluating Roadside Impact of Different Gate Operation Strategies at a Container Terminal Using Microsimulation” 2008 Annual Transportation Research Forum, Texas A&M University, College Station, Texas, 2008.
53. Boile, M., Theofanis, S., Baveja A. and Mittal N. “Regional Repositioning of Empty Containers: A Case for Inland Depots” 87<sup>th</sup> Annual Transportation Research Board Meeting, Washington DC. January 2008.
54. Golias M., Theofanis S., Boile M., Taboada H.A. “A Post Pareto Analysis Approach for the Discrete and Dynamic Multiobjective Berth Allocation Problem.” 87<sup>th</sup> Annual Transportation Research Board Meeting, Washington DC. January 2008.

55. Matrogiannidou C., Theofanis S., Ziliaskopoulos A., Boile M. “The Intraterminal Transport Problem: System Description, Literature Review and Research Recommendations” 87<sup>th</sup> Annual Transportation Research Board Meeting, Washington DC. January 2008.
56. Camay S., Derman B., Bohn E., Ramasubramanian L., Milczarski W., Albrecht J., Boile M., Theofanis S. “Ferry Parking and Landside Access Study – Implementing Public Outreach and Impact Assessment” 87<sup>th</sup> Annual Transportation Research Board Meeting, Washington DC. January 2008
57. Mittal N., Boile M., Baveja A., Theofanis S. (2008) «Inland-Depots-for-Empty-Containers (IDEC) System for Effective Regional Repositioning of Empty Containers» *Global Supply-Chain Transportation and Logistics*, IIT Delhi, New Delhi, August 2008 (Keynote address)
58. Theofanis, S., Boile, M. and Naniopoulos, A. (2007), “The Role of a Virtual Container Yard (VCY) in Reducing Unproductive Trucking Moves Around Marine Container Terminals”, 10<sup>th</sup> International Maritime Conference “MARDCON 10”, November 4-5, Ain Sokhna, Egypt.
59. Naniopoulos, A., Theofanis, S., Boile, M. and Palantzas, G. (2007), “Advances in Containerization: Demand, Supply and Challenges Ahead”, 10<sup>th</sup> International Maritime Conference “MARDCON 10”, November 4-5, Ain Sokhna, Egypt.
60. Boile, M., Theofanis S., Baveja A., Mittal N. “Evaluating the Effectiveness of Inland Depot for Empty Containers (IDEC) Concept in Empty Container Management” 2<sup>nd</sup> Annual National Urban Freight Conference, 5-7 Δεκεμβρίου 2007. Long Beach, CA
61. Golias M., Theofanis S., Boile M. “Berth and Quay Crane Scheduling A Formulation Reflecting Start and Finish of Service Deadlines and Productivity Agreements.” 2<sup>nd</sup> Annual National Urban Freight Conference, 5-7 Δεκεμβρίου 2007. Long Beach, CA.
62. Theofanis S., Golias M., Boile M. “An Adaptive Local Search Heuristic for the Discrete Berth Allocation Problem.” 2<sup>nd</sup> Annual National Urban Freight Conference, 5-7 Δεκεμβρίου 2007. Long Beach, CA
63. Theofanis S., Boile M., Mann H. “Freight Villages and Other Logistics Centers in Europe: Experiences, Best Practices and Challenges Ahead” 2<sup>nd</sup> Annual National Urban Freight Conference, 5-7 Δεκεμβρίου 2007. Long Beach, CA
64. Boile M., Theofanis S., Golias M. “A Framework for Modeling Port Related Congestion and Evaluating Mitigation Strategies” 9<sup>th</sup> Annual NJDOT Research Showcase. 27-28 Νοεμβρίου 2007
65. Boile M., Theofanis S., Moini N., Golias M. “Forecasting Gate Inbound and Outbound Traffic based on Berth Activity at Marine Container Terminals” 9<sup>th</sup> Annual NJDOT Research Showcase. 27-28 Νοεμβρίου 2007
66. Theofanis S., Boile M., Williams T., Maher A. “Port Asset Management, The Role of Port Authorities and Marine Terminal Operators – A Systemic Approach” 7<sup>th</sup> National Conference on Transportation Asset Management, 6-8 Νοεμβρίου 2007. New Orleans, Louisiana.
67. Boile M., Theofanis S. “Port Asset Management Beyond the Port: A Port Access Roadway Network Management Decision Support System” 7<sup>th</sup> National Conference on Transportation Asset Management, 6-8 Νοεμβρίου 2007. New Orleans, Louisiana.
68. Boilé M., Theofanis S., Golias M. “A Multi-objective Formulation for the Berth Allocation Problem”, INFORMS Annual Meeting 5-8 Νοεμβρίου 2007. Seattle, Washington
69. Golias M., Theofanis S., Boilé M. “Berth and Quay Crane Scheduling: A Multi-objective Formulation” INFORMS Annual Meeting 5-8 Νοεμβρίου 2007. Seattle, Washington.

70. Theofanis S., Boile M. "Estimating Empty Container Trip Reduction from a Virtual Container Yard Operation" INFORMS Annual Meeting 5-8 Νοεμβρίου 2007. Seattle, Washington.
71. Janakiraman, Boile, Theofanis "Addressing a Global Transshipment Hub Location Routing Problem by Using a Multi-Stage Model Formulation Approach", IAME 2007, Athens.
72. Theofanis, Boile, Janakiraman, Naniopoulos "Reducing unproductive empty container movements around marine container terminals: the role of a Virtual Container Yard", IAME 2007, Athens
73. Theofanis, Boile, Golias "An optimization based genetic algorithm heuristic for the berth allocation problem" θα παρουσιαστεί στο IEEE Congress on Evolutionary Computation, Singapore 25-28 September 2007
74. Theofanis, S., Golias, M., Boile, M. (2007) "Berth and Quay Crane Scheduling: A Formulation Reflecting Service Deadlines and Productivity Agreements", θα παρουσιαστεί στο TRANSTEC 2007 Annual Conference, Prague, Czech Republic, September 13-15, 2007
75. Theofanis, S., "Quantifying the Role of a Virtual Container Yard (VCY) in Reducing Unproductive Empty Container Movements Around Marine Container terminals", θα παρουσιαστεί στο TRANSTEC 2007 Annual Conference, Prague, Czech Republic, September 13-15, 2007
76. Golias, M., Boile, M., Theofanis, S. (2007) "The Stochastic Berth Allocation Problem", θα παρουσιαστεί στο TRANSTEC 2007 Annual Conference, Prague, Czech Republic, September 13-15, 2007
77. Boile, M., Theofanis, S., Jamakiraman, S. (2007) "A Multi-Stage Model Formulation Approach to Address the Global Transshipment Hub Location Routing Problem", θα παρουσιαστεί στο TRANSTEC 2007 Annual Conference, Prague, Czech Republic, September 13-15, 2007
78. Theofanis, S., Boile, M., Ziliaskopoulos, A. (2007) "Estimating Empty Container trip Reduction from a Virtual Container Yard Operation", to θα παρουσιαστεί στο 13<sup>th</sup> International Conference on Urban Transport and the Environment, 3-5 September, 2007, Coimbra, Portugal.
79. Theofanis, S., Boile, M., Naniopoulos, A. (2007) "Reducing Emissions From Port Drayage Operations: The Role of a Virtual Container Yard", θα παρουσιαστεί στο 13<sup>th</sup> International Conference on Urban Transport and the Environment, 3-5 September, 2007, Coimbra, Portugal.
80. Boile, M., Theofanis, S., Golias, M. (2007) "The Berth Allocation Problem: a Formulation Reflecting Service Priority Arrangements With Time Windows", θα παρουσιαστεί στο in the 2<sup>nd</sup> International Conference on Transportation Logistics, 4-6 July 2007, Shenzhen, P.R. China.
81. Boile, M., Theofanis, S., Golias, M. (2007) "Berth Planning by Customer Service Differentiation: A Multi-Objective Approach", θα παρουσιαστεί στο 2007 World Conference on Transportation Research, June 24-28, University of Berkeley, California.
82. Theofanis, S. and Boile, M. (2007) "Virtual Container Yard: an Innovative Approach in Handling Container Transportation Adverse Impacts in Metropolitan Areas", 2007 Conference of the Association of American Geographers, April 17-21, San Francisco, California.

83. Boile, M. and Theofanis, S. "Empty Marine Accumulation in a Port Megacity Region", 2007 Conference of the Association of American Geographers, April 17-21, San Francisco, California.
84. Golias, M., Boile, M., Theofanis, S. (2007) "The Berth Allocation Problem: A Formulation Reflecting Time Window Service Deadlines", 48<sup>th</sup> Annual Meeting of Transportation Research Forum, Boston
85. Theofanis, S., Boile, M., Janakiraman, S. (2007) "Modeling Empty Container Matching Opportunities Through a Virtual Container Yard", 48<sup>th</sup> Annual Meeting of Transportation Research Forum, Boston
86. Theofanis, S., Boile, M., Golias M. (2007) "Container Terminal Seaside Operations Scheduling: Does Current Research Address the Practical Challenges of Berth Planning?-A Critical Review", 48<sup>th</sup> Annual Meeting of Transportation Research Forum, Boston
87. Janakiraman, S., Theofanis, S., Boile, M., Naniopoulos, A. (2007) "Virtual Container Yard: A Simulation-Based Feasibility Perspective", 86<sup>th</sup> TRB Annual Meeting, Washington D.C.
88. Golias, M., Boile, M., Theofanis, S. (2007) "The Berth Allocation Problem: A Formulation Reflecting Service Delay Penalties and Early Premiums", 86<sup>th</sup> TRB Annual Meeting, Washington D.C.
89. Boile, M and Theofanis, S., Golias, M. (2006) "Berth Allocation with Service Priorities: A Linear Reformulation", 1<sup>st</sup> WSEAS International Symposium on Advances in Naval Science, Research and Education, Tenerife, Canary Islands, Spain.
90. Boile, M. and Theofanis, S. (2006) "Developing a Maritime Transportation and Port Operations Education and Research Program in the US-Experiences and Challenges", 1<sup>st</sup> WSEAS International Symposium on Advances in Naval Science, Research and Education, Tenerife, Canary Islands, Spain.
91. Boile, M. and Theofanis, S. (2006) "Education Innovations in Maritime Transportation and Port Operations", 5<sup>th</sup> ASEE Global Colloquium on Engineering Education, Rio de Janeiro, Brazil.
92. Theofanis, S., Boile, M., Jafari, M., Cheng, Y., Maher, A., (2006) "BERTH SCHEDULER: A Dynamic Assignment Berth Planning Tool", 4<sup>th</sup> Pan-Hellenic Conference in Port Engineering, Athens, Greece.
93. Boile, M., Theofanis S. and Spasovic L. (2006) "The Role of Various Players in the Port Industry – Theory and Practice" 47<sup>th</sup> Annual Forum of the Transportation Research Forum, New York, NY.
94. Boile, M. (2006) "The Impact of Heavy Vehicles on Freeway Maintenance Cost" 1<sup>st</sup> International Symposium on Freeway & Tollway Operations. Αθήνα, June 4-7.
95. Boile, M., Theofanis S. and Baveja A. (2006) "Stakeholder Collaboration in Maximizing Port Industry Performance – A Conceptual Approach" 47<sup>th</sup> Annual Forum of the Transportation Research Forum, New York, NY.
96. Theofanis, S., Boile M., Palantzas G., Wooldridge C., and Naniopoulos A. (2006) "Applying Environmental Management Systems in European Ports: Application of Port-Environmental Review System in Ports of Piraeus and Thessaloniki" 85<sup>th</sup> Annual Meeting of the Transportation Research Board, January 23-26, Washington, DC
97. Boile, M., Theofanis S., Golias M. and Mittal N. (2006) "Empty Marine Container Management: Addressing Locally a Global Problem" 85<sup>th</sup> Annual Meeting of the Transportation Research Board, January 23-26, Washington, DC

98. Jafari, M., Cheng, Y., Theofanis, S., Boile, M., Maher, A. (2005) “A Dynamic Berth Allocation Planning Model” International Mediterranean Modeling Multiconference, The International Workshop on Harbour, Maritime and Multimodal Logistics Modeling and Simulation. 20-22 Οκτωβρίου. Marseille, France.
99. Boile M., and Golias M., (2005) “Statistical Truck Demand Modeling with ArcInfo 9.0” 2005 ESRI International User Conference, San Diego, California, Ιούλιος 2005
100. Boile, M. and Theofanis S., (2005) “Public – Private Partnerships in the Port Sector: The Case of Stock Listing of Operating Port Entities” 46<sup>th</sup> Annual Forum of the Transportation Research Forum, 6-8 Μαρτίου, Washington, DC
101. Boile, M. and Golias M., (2005) “Freight Demand Statistical Modeling: A Classification and Review” 46<sup>th</sup> Annual Forum of the Transportation Research Forum, 6-8 Μαρτίου, Washington, DC
102. Boile, M., Theofanis S. and Mikiki F., (2005) “Oil Spills in Maritime Transport: Call for Actions” 84<sup>th</sup> Annual Meeting of the Transportation Research Board, 9-13 Ιανουαρίου, Washington, DC
103. Peric, K., Boile M. and Mouskos K. (2005) “Adding Intermodal Capabilities in Transportation Planning Applications” 84<sup>th</sup> Annual Meeting of the Transportation Research Board, 9-13 Ιανουαρίου, Washington, DC.
104. Mittal, N., Golias M., Boile M., Spasovic L., Ozbay K. (2005) “Estimation of Truck Volumes – A Statistical Approach” 84<sup>th</sup> Annual Meeting of the Transportation Research Board, 9-13 Ιανουαρίου, Washington, DC.
105. Ozbay, K., Chen J., Boile M. (2004) “Simulation Based Evaluation of Improved SCOOT and SCATS Adaptive Signal Control Algorithms” XIII Panamerican Conference of Traffic and Transportation Engineering. 26-29 Σεπτεμβρίου, Albany, New York.
106. Boile, M., Theofanis, S. (2004) “The Role of Liner Shipping within an Intermodal System – The Port Community Case” The Transport Science and Technology Congress. 1-5 Σεπτεμβρίου, Athens, Greece
107. Theofanis, S., Hatzakos S., Boile M. (2004) “Infrastructure Development and Management to Support the Floating Accommodation Program of the Athens 2004 Olympic Games – Prospects and Challenges” The Transport Science and Technology Congress. 1-5 Σεπτεμβρίου, Athens, Greece
108. Boile M., Mikiki F. (2004) “Environmental Impact of Maritime Transport: Call for Actions” 10<sup>th</sup> World Conference on Transport Research. 4-8 Ιουλίου, Istanbul, Turkey
109. Boile M.P., Theofanis S., and Mittal N. (2004) “Empty Intermodal Containers – A Global Issue” 2004 Transportation Research Forum Annual Forum. Northwestern University, Transportation Center, Evanston, Illinois, 21-23 Μαρτίου
110. Mittal N., Golias M., Boile M., Spasovic L.N. and Ozbay K. (2004) “Estimation of Truck Volumes and Flows using Classification Counts” 2004 Transportation Research Forum Annual Forum. Northwestern University, Transportation Center, Evanston, Illinois, 21-23 Μαρτίου
111. Boile M.P. (2003) “Analyzing Port Authority Investment Policies within the Framework of an Intermodal Transportation System” 2<sup>o</sup> Διεθνές Συνέδριο με θέμα «Έρευνα στις Μεταφορές» 26-27 Φεβρουαρίου στην Αθήνα
112. Boile M.P. Morfoulaki M. και Mikiki F. (2003) “Develop a Training Programme to Improve Work Zone Safety” 2<sup>o</sup> Διεθνές Συνέδριο με θέμα «Έρευνα στις Μεταφορές» 26-27 Φεβρουαρίου στην Αθήνα

113. Boile M.P., Theofanis S., and Mittal N. (2003) “Empty Intermodal Containers – A Global Issue” ετήσιο συνέδριο του Transportation Research Forum, Άνοιξη του 2004 στο Northwestern University, Transportation Center, Evanston, Illinois
114. Mittal N., Golias M., Boile M., Spasovic L.N. and Ozbay K. (2003) “Estimation of Truck Volumes and Flows using Classification Counts” ετήσιο συνέδριο του Transportation Research Forum, Άνοιξη του 2004 στο Northwestern University, Transportation Center, Evanston, Illinois
115. Mouskos K., Boile M., and Peric K., (2003) “Technical Solutions to Overcrowded Park and Ride Facilities” poster presentation 5<sup>th</sup> Annual NJDOT Research Showcase, New Brunswick, NJ, Οκτώβριος 24.
116. Boile M., Mittal N., and Peric K. (2003) “Driving Simulator – A Virtual Reality Tool for Safety / Human Factors Studies” poster presentation 5<sup>th</sup> Annual NJDOT Research Showcase, New Brunswick, NJ, Οκτώβριος 24.
117. Boile M., Mittal N. (2003) “Empty Intermodal Container Management” poster presentation 5<sup>th</sup> Annual NJDOT Research Showcase, New Brunswick, NJ, Οκτώβριος 24.
118. Boile M.P., Golias M. (2003) “NY City Tunnels and the Path Exchange Cross Over” Προσκεκλημένη ομιλήτρια στο 10<sup>ο</sup> Διεθνές Συνέδριο του Συλλόγου Μηχανικών της ΠΓΔΜ (MASE), Οχρίδα, 25-27 Σεπτεμβρίου
119. Boile M.P., Mittal N. and Necevska-Cvetanovska G. (2003) “Effect of Earthquakes on Transportation Facilities – Post Earthquake Traffic Management” 10<sup>ο</sup> Διεθνές Συνέδριο του Συλλόγου Μηχανικών της ΠΓΔΜ (MASE), Οχρίδα, 25-27 Σεπτεμβρίου
120. Narayanan, P., Boile M.P. and Ozbay K. (2003) “The Impact of Buses on Highway Infrastructure – A Case Study for the State of New Jersey” 82<sup>nd</sup> Transportation Research Board ετήσιο συνέδριο. Washington D.C. Ιανουάριος 13-17.
121. Boilé M.P. (2002) “The Role of Shipping in Multimodal Transportation: Building the Future” Panel participant at the Med Ports 2002. Αθήνα, Απρίλιος 23.
122. Narayanan P., Boilé M., and Ozbay K. (2002) “Impact of Buses on Pavements” 45<sup>th</sup> Annual New Jersey Asphalt Pavement Συνέδριο, Iselin, NJ. Μάρτιος 11.
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## Languages

	<u>Speak</u>	<u>Write</u>	<u>Read</u>
<b>Greek:</b>	Mother Tongue	Mother Tongue	Mother Tongue
<b>English:</b>	Fluently	Fluently	Fluently
<b>French:</b>	Average	Average	Good