

PERSONAL INFORMATION

**Evangelos Mintsis**



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💬 Skype vmintsis

PROFESSION **Transportation Engineer**

WORK EXPERIENCE

09.2017 – today

**Research Associate**

CERTH – HIT, 6<sup>th</sup> km Charilaou - Themi Rd., 57001, Themi, Greece (<http://www.imet.gr>)

- Project Management – Technical Work (EU funded Research Projects)

Business or sector Research and Innovation

09.2013 – 09.2016

**Research Associate**

CERTH – HIT, 6<sup>th</sup> km Charilaou - Themi Rd., 57001, Themi, Greece (<http://www.imet.gr>)

- Technical Work (EU funded Research Projects)

Business or sector Research and Innovation

09.2009 – 11.2011

**Research Associate**

University of Florida Transportation Institute, 365 Weil Hall, PO Box 116580, Gainesville, FL, 32611, US (<https://www.transportation.institute.ufl.edu/>)

- Technical Work (FDOT funded Research Projects)

Business or sector Research and Innovation

09.2004 – 12.2009

**Research Associate**

Aristotle University of Thessaloniki, School of Rural and Surveying Engineering, Department of Transportation and Hydraulic Engineering, University Campus, 54124, Thessaloniki (<https://www.auth.gr/topo>)

- Technical Work (National funded Research Projects)

Business or sector Research and Innovation

EDUCATION AND TRAINING

04.2014 - today

**PhD Candidate**

National Technical University of Athens, School of Civil Engineering, Department of Transportation Planning and Engineering, Iroon Politexniou 5, 15773, Athens (<http://www.transport.ntua.gr/arxiki/>)

- Dissertation Title: "Analysis and Upgrade of the Operations of Cooperative Intelligent Transportation Systems in Urban Networks" (in progress)

08.2009 – 08.2012 **Master of Science**

University of Florida, Engineering School of Sustainable Infrastructure & Environment, Department of Civil & Coastal Engineering, 365 Weil Hall, 1949 Stadium Road, Gainesville, FL, 32611, US ([https://www.essie.ufl.edu/departments/civil\\_and\\_coastal\\_engineering/](https://www.essie.ufl.edu/departments/civil_and_coastal_engineering/))

- Thesis Title: “An Evaluation of the Joint Operation of Ramp Metering and Variable Speed Limits Using CORSIM”

09.2002 – 06.2009 **Bachelor's Degree (Civil Engineering)**

Aristotle University of Thessaloniki, School of Civil Engineering, Department of Transport and Project Management, University Campus, 54124, Thessaloniki (<http://www.civil.auth.gr>)

- Thesis Title: “The use of the mesoscopic traffic simulation software SATURN for the analysis of a traffic management plan developed for the city of Giannitsa – Greece”

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Proficiency (University of Michigan)					
German	A1	A1	A1	A1	A1
Zertifikat (Goethe Institut)					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Computer Skills

Microsoft Office, MS Visual Studio, SATURN, TSIS-CORSIM, AIMSUN, SUMO, TRANSYT 7-F, LISA+, Highway Capacity Manual Software, MATLAB, SPSS, OpenShot Video Editor, Programming Languages: C++

ADDITIONAL INFORMATION

Research Interests

- Traffic Flow Theory
- Traffic Engineering
- Traffic Management and Control
- Traffic Simulation
- Intelligent Transportation Systems
- Cooperative Intelligent Transportation Systems
- Connected and Automated Driving
- Transport Economics

## Participation in research projects

1. "Model plan of physical and regulatory measures for the rationalisation of road infrastructure use and the improvement of the urban environment in the city of Giannitsa", 2007-2008.  
- member of project team (AuTH)
2. "Examination of the trip characteristics, assessment of the efficiency of the traffic system and measures for rational management of urban mobility in the city of Katerini", 2007-2008.  
- member of project team (AuTH)
3. "Model plan of physical and regulatory measures for the rationalisation of road infrastructure use and improvement of the urban environment in the city of Aridaia", 2008.  
- member of project team (AuTH)
4. "Managed Lane Operations – Adjusted Time of Day Pricing vs. Near-Real Time Dynamic Pricing", FDOT Contract BDK77 977-04 (UF Project 00081551), 2009-2012.  
- member of project team (UFTI)
5. "COMPASS4D: Cooperative Mobility Pilot on Safety and Sustainability Services for Deployment". European Commission, CIP PSP 2012. CERTH-HIT participated as project partner. 2012-2015. Project budget: 9.997.879 €, CERTH-HIT budget: 212.150 €.  
- member of project team (CERTH/HIT)
6. "SEE-ITS: Intelligent Transport Systems in South East Europe". European Commission, South East Europe 2012 programme. CERTH-HIT participated as project leader. 2012-2014. Project budget: 1.594.531 €, CERTH-HIT budget: 397.278 €.  
- member of project team (CERTH/HIT)
7. "DECIDE: Decision Support System for Disaster Emergency Management", Interreg Greece – Fyrom 2013 programme, CERTH-HIT participated as project partner, 2014-2015. Project budget: 786.703 €, CERTH-HIT budget: 296.310 €.  
- member of project team (CERTH/HIT)
8. "C-MOBILE: Accelerating C-ITS Mobility Innovation and deployment in Europe", Horizon 2020, CERTH-HIT participated as project partner. 2017-2020, Project budget: 12.575.173,00€, CERTH-HIT budget: 579.375,00€  
- member of project team (CERTH/HIT)
9. "TRANSAID: Transition Areas for Infrastructure-Assisted Driving", Horizon 2020, CERTH-HIT participated as project partner. 2017-2020, Project budget: 3.836.353,75€, CERTH-HIT budget: 367.437,50€  
- member of project team, WP leader (CERTH/HIT)
10. "Drive2theFuture: Needs, wants and behaviour of 'Drivers' and automated vehicle users today and into the future", Horizon 2020, CERTH-HIT participated as project leader. 2019-2022, Project budget: 3.998.612,50€, CERTH-HIT budget: 321.718,75€  
- member of project team (CERTH/HIT)
11. "SHOW: SHared automation Operating models for Worldwide adoption", Horizon 2020, CERTH-HIT participated as project leader. 2020-2024, Project budget: 36.367.554€, CERTH-HIT budget: 1.669.875€  
- member of project team (CERTH/HIT)

## Approved project proposals

1. "C-Mobile: Accelerating C-ITS Mobility Innovation and deployment in Europe". H2020
2. "TRANSAID: Transition Areas for Infrastructure-Assisted Driving". H2020

## Publications in peer reviewed scientific journals

- J.1. E. Mitsakis, P. Iordanopoulos, E. Mintsis, S. Mamarkias, G. Aifadopoulou (2015) Intelligent Transport Systems deployment in Thessaloniki: Assessment of costs and benefits, Spatium, No. 33, pp 26-32.

J.2. E. Mintsis, M. Belibassakis, G. Mintsis, S. Basbas, M. Pitsiava-Latinopoulou, (2016) The use of a transport simulation model (AIMSUN) to determine the environmental effects of pedestrianization and traffic management in the center of Thessaloniki, *European Journal of Environmental Sciences*, Vol. 6, No. 1, pp 25-29.

J.3. L. Giannakos, E. Mintsis, S. Basbas, G. Mintsis, C. Taxiltaris (2017) Simulating traffic and environmental effects of pedestrianization and traffic management. A comparison between static and dynamic traffic assignment, *Transportation Research Procedia*, Vol. 24, pp 313-320.

J.4. E. Karioti, S. Basbas, E. Mintsis, G. Mintsis, C. Taxiltaris (2017) Traffic and environmental impacts of traffic incidents on Thessaloniki's inner ring road, *Transportation Research Procedia*, Vol. 24, pp 288-295.

J.5. E. Mintsis, G. Aldaggelou, G. Mintsis, S. Basbas, M. Pitsiava-Latinopoulou (2017) Environmental impacts of actuated signals on interrupted traffic flow. *Fresenius Environmental Bulletin Special Issue*, Vol. 26, No. 9, pp 5642-5649.

J.6. K.N. Porfyri, E. Mintsis, E. Mitsakis (2018) Assessment of ACC and CACC systems using SUMO. *EPIc Series in Engineering*, Vol. 2, pp 82-93.

J.7. L. Lücken, E. Mintsis, K. N. Porfyri, R. Alms, Y.-P. Flötteröd, D. Koutras (2019) From Automated to Manual-Modeling Control Transitions with SUMO. *EPIc Series in Computing*, Vol. 62, pp 124-144.

J.8. E. Mintsis, E.I. Vlahogianni, E. Mitsakis (2020) Dynamic Eco-driving near Signalized Intersections: A Systematic Review and Future Research Directions. *Journal of Transportation Engineering, Part A: Systems*, ASCE, Vol. 146(4).

J.9. E. Mintsis, E.I. Vlahogianni, E. Mitsakis, S. Ozkul (2021) Enhanced Speed Advice for Connected Vehicles in the proximity of Signalized Intersections. *European Transport Research Review*, Vol. 13(1).

J.10. R. Alms, A. Noulis, E. Mintsis, L. Lücken, P. Wagner (2022) Reinforcement Learning-Based Traffic Control: Mitigating the Adverse Impacts of Control Transitions. *IEEE Open Journal of Intelligent Transportation Systems*, Vol. 3, pp. 187-198.

#### Publications in peer reviewed conferences

P.1. S. Basbas, E. Mintsis (2009) Sustainable mobility and transport modelling: the case of the city of Giannitsa, 2<sup>nd</sup> International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2009), 21-26 June 2009, Mykonos, Greece.

P.2. S. Basbas, E. Mintsis (2009) Urban environment and transport demand management measures: the case of the city of Katerini, 11<sup>th</sup> International Conference of Environmental Science and Technology (CEST 2009), 3-5 September 2009, Xania, Greece.

P.3. E. Mitsakis, J.M. Salanova Grau, G. Aifadopoulou, E. Mintsis, G. Tsoukos (2014) Cooperative Intelligent Transport Systems for freight transport, ECITL 2014, European Conference on ICT for Transport Logistics, 5-7 November 2014, Dortmund, Germany.

P.4. J.M. Salanova Grau, E. Mitsakis, I. Stamos, E. Mintsis (2015) The impacts of cooperative mobility systems on CO<sub>2</sub> emissions: a simulation-based study, Global Conference on Global Warming, 24-27 May 2015, Athens, Greece.

P.5. E. Mitsakis, P. Iordanopoulos, E. Mintsis, S. Mamarikas (2015) Intelligent Transport Systems deployment in Thessaloniki: assessment of costs and benefits, International Conference on "Changing Cities 2": Spatial, Design, Landscape & Socio-economic Dimensions. 22-26 June, 2015, Porto Heli, Greece.

P.6. E. Mintsis, J.M. Salanova Grau, E. Mitsakis, G. Aifadopoulou (2015) Effects of C-ITS on the Environmental Footprint of Vehicular Traffic at Signalized Intersections, 7<sup>th</sup> International Congress on Transport Research, 2015, Athens, Greece.

P.7. S. Mamarikas, E. Mintsis, E. Mitsakis, J. M. Salanova Grau (2015) Comparison of macroscopic

and microscopic emission estimation approaches in the evaluation of ITS, 7<sup>th</sup> International Congress on Transport Research, 2015, Athens, Greece.

P.8. E. Mintsis, E.I. Vlahogianni, E. Mitsakis, S. Ozkul (2017) Evaluation of a Cooperative Speed Advice Service Implemented Along an Urban Arterial Corridor, IEEE International Conference on Models and Technologies for Intelligent Transportation Systems MT-ITS 2017, Naples, Italy.

P.9. K.M. Kotoula, J.M. Salanova Grau, E. Mitsakis, E. Mintsis (2017) User acceptance of the provision of speed advice services in Thessaloniki, 8<sup>th</sup> International Congress on Transport Research 2017, Thessaloniki, Greece.

P.10. A. Petrou, E. Mintsis, G. Mintsis, S. Basbas, C. Taxiltaris (2017) Study of the relationship between main parameters of traffic flow with the use of a traffic microscopic simulation model, 8<sup>th</sup> International Congress on Transport Research 2017, Thessaloniki, Greece.

P.11. A. Wijbenga, J. Vreeswijk, J. Schindler, E. Mintsis, M. Rondinone, A. Correa, M. Sepulcre, S. Maerivoet, R. Blokpoel, E. Mitsakis (2018) Centralized Infrastructure-Assisted Management for Mixed Traffic at Transition Areas, 2<sup>nd</sup> Symposium on Management of Future motorway and urban Traffic Systems, Ispra, Italy.

P.12. A. Correa, S. Maerivoet, E. Mintsis, A. Wijbenga, M. Sepulcre, M. Rondinone, J. Schindler, J. Gozalvez (2018) Management of Transitions of Control in Mixed Traffic with Automated Vehicles, 16<sup>th</sup> International Conference on Intelligent Transportation Systems Telecommunications (ITST), IEEE, pp 1-7.

P.13. N. Koutroumpis, E. Mintsis, S. Basbas, J.M. Salanova Grau (2018) Speed Advisory System Evaluation along Signalized Rural Arterial Corridors, Transport Research Arena (TRA), 16-19 April 2018, Vienna, Austria.

P.14. M. Lu, R. Blokpoel, J. Schindler, S. Maerivoet, E. Mintsis (2018) ICT Infrastructure for Cooperative, Connected and Automated Transport in Transition Areas, Transport Research Arena (TRA), 16-19 April 2018, Vienna, Austria.

P.15. S. Maerivoet, A. Wijbenga, J. Vreeswijk, E. Mintsis, D. Koutras, X. Zhang, R. Blokpoel, A. Correa, L. Lücken, R. Alms, Y.-P. Flötteröd (2019) Enhanced Traffic Management Procedures in Transition Areas, 13<sup>th</sup> ITS European Congress, 3-6 June 2019, Brainport, the Netherlands.

P.16. R. Blokpoel, X. Zhang, D. Koutras, E. Mintsis (2019) Motorway merging assistant for automated vehicles, 13<sup>th</sup> ITS European Congress, 3-6 June 2019, Brainport, the Netherlands.

P.17. S. Mamarikas, E. Mintsis, S. Doulgeris, L. Ntziachristos, E.I. Vlahogianni, E. Mitsakis (2019) Impacts of Dynamic Eco-driving on the Energy Consumption of Electric Vehicles and Hybrids, 9<sup>th</sup> International Congress on Transport Research, 2019, Athens, Greece.

P.18. R. Alms, Y.-P. Flötteröd, E. Mintsis, S. Maerivoet, A. Correa (2020) Traffic Management for Connected and Automated Vehicles on Urban Corridors - Distributing Take-Over Requests and Assigning Safe Spots, 3<sup>rd</sup> Symposium on Management of Future Motorway and Urban Traffic Systems, 6-8 July, Luxembourg.

P.19. E. Mintsis, L. Lücken, V. Karagounis, K. N. Porfyri, M. Rondinone, A. Correa, J. Schindler, E. Mitsakis (2020) Joint Deployment of Infrastructure-Assisted Traffic Management and Cooperative Driving around Work Zones, 23<sup>rd</sup> IEEE International Conference on Intelligent Transportation Systems, 20-23 September, Virtual Conference.

P.20. S. Maerivoet, K. Carlier, B. Ons, A. Wijbenga, S. Boerma, J. Vreeswijk, E. Mintsis, D. Koutras, V. Karagounis, X. Zhang, R. Blokpoel, A. Correa, R. Alms, Y.-P. Flötteröd (2020) Enhanced Traffic Management Procedures of Connected and Autonomous Vehicles in Transition Areas, Virtual ITS European Congress, 9-10 November.

P.21. E. Mintsis, E. I. Vlahogianni, E. Mitsakis (2021) Differences between Manual and Automated Execution of Dynamic Eco-driving Advice, 10<sup>th</sup> International Congress on Transport Research, 2021, Rhodes, Greece.

P22. K. N. Porfyri, L. Lücken, E. Mintsis, V. Karagounis, M. Rondinone, J. Schindler, J. Vreeswijk, E. Mitsakis (2021) Evaluation of Manual and System Initiated Transitions of Control with the Use of Traffic Simulation, 10th International Congress on Transport Research, 2021, Rhodes, Greece.

P.23. A. Wijbenga, J. Vreeswijk, M. Rondinone, J. Schindler, E. Mintsis, M. Sepulcre, S. Maerivoet (2021) Stakeholder Considerations of Automated Driving in Infrastructure-Assisted Transition Areas, 27th ITS World Congress, Hamburg, Germany.

#### Book chapters

B.1. E. Mitsakis, J.M. Salanova Grau, P. Iordanopoulos, E. Mintsis (2016) Frameworks and Methods for ITS Evaluation. Evaluation of Intelligent Road Transportation Systems: Methods and Results, IET, ISBN: 978-1-78561-172.

B.2. J. Schindler, L. Lucken, A. Wijbenga, E. Mintsis, S. Maerivoet (2019) Infrastructure-assisted Automated Driving in Transition Areas. Cooperative Intelligent Transport Systems: Towards high-level automated driving, IET, ISBN: 9781839530128.

#### Presentatons in workshops

W.1. E. Mintsis, L. Elefteriadou (2010) Could Coordination between Ramp Signaling and Pricing be Achieved?, Transportation and Expressway Authority Membership of Florida, TEAMFL, Poster Session, 20-21 October 2010, Miami, USA.

W.2. E. Mintsis, L. Elefteriadou (2012) An Investigation of the Interactions between Managed Lane Operations and Ramp Metering: The I-95 Express, Innovations in Traffic Flow Theory and Characteristics, and Highway Capacity and Quality of Service Symposium, TRB Symposium, 19-22 June 2012, Fort Lauderdale, USA.

W.3. E. Mintsis, E. Mitsakis, J.M. Salanova Grau (2016) Cooperative Intelligent Transport Systems, 3rd Technology Forum, Thessaloniki, Greece.

W.4. E. Mintsis (2016) Evaluation of the impact and applicability of C-ITS in urban road networks, 14th Aimsun Users' Meeting, 19-20 September 2016, Athens, Greece.

W.5. E. Mintsis, S. Solmaz (2019) Modelling infra-assisted automated driving and simulation findings, INFRAMIX and TransAID Joint stakeholder workshop, 9 October 2019, Graz, Austria.

W.6. E. Mintsis, J. Erdmann, K. Porfyri, L. Lücken, D. Koutras, E. Mitsakis (2020) Driver – Vehicle Models for Cooperative, Connected and Automated Vehicles, L3Pilot Summer School, Poster Session, 10 September 2016, Virtual.

W.7. E. Mintsis, M. Rondinone, V. Karagounis, K. Porfyri, J. Schindler, E. Mitsakis (2021) Management of Connected and Automated Vehicle Disengagements in the proximity of Work Zones, 2021 International Symposium on Transportation Data and Modelling, Virtual.

W.8. E. Mintsis (2021) Infrastructure-Assisted Traffic Management for Cooperative and Automated Driving around Work Zones, The 2021 TRB Annual Automated Road Transportation Symposium, Virtual.

#### Participation in conferences

- Transportation Research Board Annual Meeting, Washington DC, U.S.A., 2010.
- Transportation Research Board Annual Meeting, Washington DC, U.S.A., 2011.
- Transportation Research Board Annual Meeting, Washington DC, U.S.A., 2012.
- 6<sup>th</sup> International Congress on Transportation Research, Thessaloniki, Greece, 2013.
- 2<sup>nd</sup> International Conference on 'Changing Cities', Porto Heli, Greece, 2015.
- 7<sup>th</sup> International Congress on Transportation Research, Athens, Greece, 2015.
- 22<sup>nd</sup> ITS World Congress, Bordeaux, France, 2015.
- Intelligent Transport Systems in Greece, Athens, 2015.

- Intelligent Transport Systems in Greece, Athens, 2016.
- 5<sup>th</sup> IEEE International Conference on Models and Technologies For Intelligent Transportation Systems (MT-ITS), Napoli, Italy, 2017.
- Advanced Microsystems for Automotive Applications (AMAA), Berlin, Germany, 2017.
- 8<sup>th</sup> International Congress on Transportation Research, Thessaloniki, Greece, 2017.
- Voxxed Days, Thessaloniki, Greece, 2017.
- Intelligent Transport Systems in Greece, Athens, 2017.
- SUMO Conference, Berlin, Germany, 2018.
- 2<sup>nd</sup> Symposium on Management of Future Motorway and Urban Traffic Systems, Ispra, Italy, 2018.
- Connected and Automated Driving Conference, Brussels, 2019.
- 47<sup>th</sup> ASECAP Days, Costa Navarino, Greece, 2019.
- 9<sup>th</sup> International Congress on Transportation Research, Athens, Greece, 2019.
- 23<sup>rd</sup> IEEE International Conference on Intelligent Transportation Systems, Virtual Conference, 2020.
- 2021 International Symposium on Transportation Data and Modelling, Virtual Conference, 2021.
- 10<sup>th</sup> International Congress on Transportation Research, Rhodes, Greece, 2021.
- Member of the Organizing Committee of the 8<sup>th</sup> International Congress on Transport Research, ICTR 2017, Thessaloniki, Greece.
- IEEE Communications Letters, IEEE
- International Journal of Transportation Science and Technology, Elsevier
- Transportation Research Part C, Elsevier
- IEEE Transactions on ITS, IEEE
- IET Intelligent Transport Systems
- Transportation Research Record
- Statistical Analysis & Mathematical Modelling with Matlab, Mentor Hellas, Thessaloniki, 2014.
- Big Data in Transportation, LTE Summer School, University of Cyprus, Nicosia, 2016.
- Aimsun Training Course, Aimsun, Thessaloniki, 2019
- LISA+ Training Course, Schlothauer & Wauer, Online, 2020
- Automated Driving Implementation and Testing, L3Pilot Summer School, Virtual, 2020

Member of scientific and organizing conference committees

Participation in peer review boards of scientific journals

Participation in educational seminars

Participation in scientific and professional boards, committees and networks

- Member of the Technical Chamber of Greece
- Member of the Hellenic Institute of Transportation Engineers (Secretary General: 2016-2018)
- Member of ITE – Institute of Transportation Engineers (2009-2015)

Awards - Achievements

- Research Programs for Excellence IKY- Siemens (2015-2017)

Citations

- 87 (source: google scholar), 113 (source: research gate), 31 (source: scopus), 14 (source: web of science)