



MARIA PANOU

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Gender: Female

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ABOUT ME

POSITION

Research Director at the Hellenic Institute of Transport of the Centre of Research and Technology Hellas
Head of the Department "Human factors and Vehicle Technologies"

ORCID: 0000-0002-2161-9246

WORK EXPERIENCE

Research Director

Centre of Research and Technology Hellas/ Hellenic Institute of Transport (CERTH/HIT) [2017 – Current]

City: Athens

Country: Greece

Principal Researcher

Centre of Research and Technology Hellas/ Hellenic Institute of Transport (CERTH/HIT) [2012 – 2017]

City: Athens

Country: Greece

Senior Researcher

Centre of Research and Technology Hellas/ Hellenic Institute of Transport (CERTH/HIT) [2008 – 2012]

City: Athens

Country: Greece

Research Associate

Centre of Research and Technology Hellas/ Hellenic Institute of Transport (CERTH/HIT) [2003 – 2008]

City: Athens

Country: Greece

Research Engineer

TransEuropean Consulting Unit of Thessaloniki (TRUTH S.A.) [2000 – 2003]

City: Athens

Country: Greece

EDUCATION AND TRAINING

PhD on 'Advanced, personalized travellers information and drivers warning system'

The Aristotle University of Thessaloniki, Civil Engineering Department (Greece) [2008]

<https://www.didaktorika.gr/eadd/handle/10442/20593?locale=en>

Master of Science - MSc in Advanced Control

The University of Manchester Institute of Science and Technology (UMIST, UK) [1998]

LANGUAGE SKILLS

Mother tongue(s): **Greek**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING A2 READING A1 WRITING A1

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A1

Spanish

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

DIGITAL SKILLS

MS Office, Internet, Mathematica, Macromedia Fireworks, Dreamweaver, Flash, Authorware

FIELDS OF EXPERTISE

Intelligent Transport Systems (ITS), road automation and electrification

Connected mobility

Road safety

Accessible transportation, tourism and mobility

Artificial Intelligence in transport applications

Technologies for autonomous living support

ICT for all

Circular economy

COMMUNICATION SKILLS

Excellent communication skills acquainted through the management and participation in more than 30 research projects, with consortia ranging from 15-50 partners across Europe.

ORGANISATIONAL / MANAGERIAL SKILLS

Head of Department "Human Factors and Vehicle Technologies" of the Hellenic Institute of Transport, managing a team of 20 people.

Significant experience in managerial and supervisory tasks of complex and multi-faceted projects ensuring that the team delivers both on time and with an excellent quality of outputs, as she has acted as Scientific Responsible on behalf of the Hellenic Institute of Transport and as Coordinator/Technical/Quality Manager in numerous research projects; all being projects with multidisciplinary and multi-country teams. Thus, strong ability to lead and manage efficiently competent research teams.

JOB-RELATED SKILLS

Strong research background in both transportation systems technologies and mobility issues

Task-oriented approach

Highest sense of personal integrity, honesty, and highest work ethic

Experience in in-depth evaluation of research and technical oriented applications submitted for funding, publication or review monitoring of on-going research projects

PROJECTS

Participation in Research Projects (indicative list)

1. **Scientific Responsible on behalf of the Hellenic Institute of Transport** in the European co-funded research project SAFE-UP (H2020-861570) – proactive SAFETy systems and tools for a constantly UPgrading road environment.
2. **Scientific Responsible on behalf of the Hellenic Institute of Transport** in the European co-funded research project AVENUE (H2020-769033) – Autonomous vehicles to evolve to a new urban experience.
3. **Scientific Responsible on behalf of the Hellenic Institute of Transport** in the European co-funded research project SKILLFUL (H2020-723989) – Skills and competences creation for the future transportation professionals of all levels.
4. **Scientific Responsible on behalf of the Hellenic Institute of Transport** in the European co-funded research project AUTOPILOT (H2020-731993) – Automated driving Progressed by Internet of Things.
5. **Scientific Responsible on behalf of the Hellenic Institute of Transport & Quality Manager** of the European co-funded research project Drive2theFuture (H2020-815001) - Needs, wants and behaviour of “Drivers” and automated vehicle users today and into the future.
6. **Scientific Responsible on behalf of the Hellenic Institute of Transport** in the European co-funded research project MOBILITY4EU (H2020-690732) – Action Plan for the Future Mobility in Europe
7. Participation in the European co-funded research project ADAS&ME (H2020-688900) - Adaptive ADAS to support incapacitated drivers Mitigate Effectively risks through tailor made HMI under automation.
8. **Technical Coordinator** of IN LIFE (H2020 643442; Innovation Action) – INdependent Living support Functions for the Elderly.
9. **Technical Coordinator** of SAVE ME STREP (FP7-SST-234027) – System and actions for vehicles and transportation hubs to support disaster mitigation and evacuation.
10. **Coordinator** of TRAIN-ALL STREP (FP6-2005-031517) – Integrated System for Driver Training and Assessment using interactive education tools and new training curricula for all modes of road transport.
11. **Sub-Project leader** in Integrated Project OASIS (FP7-ICT-215754) – Open Architecture for Accessible Services Integration and Standardisation.
12. **Sub-Project leader** in Integrated Project ASK-IT (FP6-IST-2003-511298) – Ambient Intelligence system of Agents for knowledge-based and Integrated services for Mobility Impaired users.
13. Participation in the European co-funded research project UNIVERSAAL (FP7-247950) - Universal Open Architecture and Platform for Ambient Assisted Living.
14. Participation in the European co-funded research project AEGIS IP (FP7-ICT-224348): “Open Accessibility Everywhere: Groundwork, Infrastructure, Standards.
15. Participation in the European co-funded research project ACCESSIBLE (FP7-ICT- 224145) Accessibility assessment simulation environment for new applications design & development

EVALUATION OF RESEARCH PROPOSALS AND PROJECTS

Expert evaluator

December 2021

Expert evaluator for the European Commission of proposals submitted under the WP “European innovation ecosystems” and in particular for the topic HORIZON-EIE-2021-SCALEUP-03-01 **Women TechEU**.

May 2014-ongoing

Expert evaluator for the European Commission of proposals submitted under the Call-H2020-SME Instrument.

October-November 2019

Expert evaluator and rapporteur for the European Commission of proposals submitted under the Call H2020-MSCA-IF-2019 call for proposals, issued on the basis of the work programme(s) H2020 **Marie Skłodowska-Curie** Work Programme 2019, Individual Fellowships.

July 2017 –January 2019

Monitoring review for the European Commission, on behalf of the Executive Agency for Small & Medium-sized Enterprises (**EASME**) for three funded projects.

November 2018

Expert evaluator and rapporteur for the European Commission of proposals submitted under the Call H2020-MSCA-IF-2018 call for proposals, issued on the basis of the work programme(s) H2020 **Marie Skłodowska-Curie** Work Programme 2018, Individual Fellowships.

March 2017

Expert evaluator for the Polish Sectoral Programme INNOMOTO has been implemented by the National Centre for Research and Development (NCRD) within Operational Programme Smart Growth 2014-2020.

August 2016

Expert evaluator for the European Commission of proposals submitted under the Call H2020-MG-2016-SingleStage-INEA, on the basis of the work programme H2020 WP 2016-2017: Smart, green and integrated transport.

April 2015-December 2016

Expert evaluator for the European Commission of proposals submitted under the Call H2020-FTIPilot (**Fast Track to Innovation**).

January 2016

Expert evaluator and rapporteur for the European Commission of proposals submitted under the Call H2020-MSCA-ITN-2016 call for proposals, issued on the basis of the work programme(s) H2020 **Marie Skłodowska-Curie** Work Programme 2016-2017, Innovative Training Networks.

March 2016

Evaluator of a research proposal under the **ZonMw programme of the Netherlands** ‘Living in a healthy neighborhood’

May 2015

Evaluator of a Research Proposal in the context of the Action “Internal Program for Researchers Support of the **Technological Institute of Athens** for the Year 2015”.

January 2015

Evaluator of a proposal submitted under the 3rd Competition on Applied Research and Innovation “Greece innovates” organized by Eurobank and SEV (**Hellenic Federation of Enterprises**).

June 2014 – September 2016

Expert reviewer of 2 projects of the General Secretariat of Research and Technology (GSRT), of the Greek Ministry of Labour, under the NSRF (National Strategic Reference Framework), Social Insurance and Solidarity.

SERVICES AND STUDIES

Special contracts

September 2017-May 2018

Participation in **the DG-MOVE study: “Best practices guide on the carriage of persons with reduced mobility”**. Specific Contract n° MOVE/B5/2017-2017-197 under the Multiple Framework Service Contract MOVE/ENER/SRD/498-2016 Lot 6.

July 2017 – April 2018

Implementation of the **Research Study “Transport and Tourism for Persons with Disabilities and Persons with Reduced Mobility”**, assigned by the **European Parliament**.

March-December 2016

Participation in the **Study: “Towards a single and innovative European transport system - Lot 2 - International assessment and action plans of the focus areas”**, which aims to the international assessment and action plans of certain focus areas (lot 2) within a study “Towards a Single and Innovative European Transport System” which develops roadmaps for the implementation of the European Commission’s White Paper on Transport.

Member of the Scientific Committees, Reviewer of papers/articles

October 2021

President of the Scientific Committee of the 7th International HUMANIST Conference "Human Factors challenges of Vehicle automation and smart mobility", 26-27 October 2021, island of Rhodes, Greece.

September 2015, 2017, 2021

Member of the Scientific Committee of the 8th International Congress on Transportation Research (ICTR 2021).

April 2008-ongoing

Member of the ETRR Editorial Board, European Transport Research Review – An Open Access Journal of ECTRI.

February 2013-ongoing

Reviewer of scientific papers for the Intelligent Transport Systems (IET) Journal

February 2014

Reviewer of submitted papers (technical and scientific) submitted at the 10th ITS European Congress, Helsinki, Finland.

June 2012

Reviewer of submitted articles for the ITSC'12

May 2012

Reviewer of submitted article for the NETS 2012

January 2012

Judge of submitted abstracts for the Young European Arena of Research-YEAR 2012

November 2011

Member of the Scientific Committee for TRA'12 (Transport Research Arena), 23-26 April, Athens.

March 2011

Reviewer of submitted paper for the International Journal of Experimental, Clinical and Behavioural Gerontology.

February 2011, 2013, 2016

Reviewer of submitted papers (technical and scientific) for the ITS European Congresses.

December 2010

Guest editor of the Special Issue 'Safety of vulnerable road users', Volume2, Number 3, December 2010, of the journal ETRR (European Transport Research Review – an Open Access Journal); ISSN (print) 1867-0717, ISSN (electronic edition) 1866-8887.

June 2010

Reviewer of submitted papers for the 13th International IEEE Conference on Intelligent Transportation Systems - ITSC, September 19-22 2010, Madeira, Portugal.

May 2010

Session Chairman at the ICT International Conference for the session 'Services for the autonomous living and mobility of the elderly', 19-21 May 2010, Durban, South Africa.

January 2010

Reviewer of submitted papers for the Transport Research Arena (TRA) 2010, 7-10 June 2010, Brussels.

November 2009

Session Chairman at the OASIS 1st International Conference, for the session 'Mobility and elderly', 4-5 November 2009, Florence, Italy.

September 2009

Member of the Scientific Committee for OASIS 1st International Conference, 4-5 November 2009, Florence, Italy.

June 2008

Member of the Scientific Committee of the ASK-IT Final Conference, 26-27 June 2008, Nuremberg, Germany.

March 2008, 2009, 2011, 2012, 2015, 2016

Reviewer of submitted papers (technical and scientific) for the ITS World Congresses.

March 2008

Reviewer of YEAR (Young European Arena of Research) 2008 project (FP7), in conjunction to the Transport Research Arena (TRA) 2008, 21-24 April, Ljubljana, Slovenia.

February 2008

Reviewer of submitted papers for the IEEE Intelligent Vehicles Symposium 2008 (IV'08), June 4-, Eindhoven Univ of Technology Eindhoven, NL.

INVITED SPEECHES

Special speeches

22-26 November 2021

NEEMO School (neemo-project.eu) Keynote speaker. Presentation: "Designing advanced micro-mobility solutions meeting users' needs and safety requirements". Malta

7 November 2018

Hellenic Parliament, at the Special Permanent Committee on Research and Technology: Presentation of the position of the Hellenic Institute of Transport on "New technologies in the transportation sectors and their impacts in economy and occupation in Greece and Europe".

13 October 2016

Hellenic Parliament, at the Special Permanent Committee on Road Safety: Presentation of the achievements of the Hellenic Institute of Transport regarding road safety promotion for all transportation means.

PUBLICATIONS

Scientific publications in journals (indicative list, out of 14 publications in total)

1. Maria C. Panou (2018). Intelligent personalized ADAS warnings. *European Transport Research Review*, Collection: Optimisation, adaptation and personalization algorithms for future transportation systems. Springer,10: 59. <https://doi.org/10.1186/s12544-018-0324-6>. ISSN: 1867-0717 (Print) 1866-8887 (Online).
2. Panou, M., Toulou, K., Dimokas, N., Kalogirou, K., Bekiaris, E. (2017). A Tool for Assessing Elderly Drivers with MCI. *International Journal of Transportation Systems*, 2, 31-36. ISSN: 2534-8876.
3. Toulou K., Gemou M., Riedel T., Panou M., Bekiaris E. (2015). A Framework for Evaluating the Implementers' Experience in Making Existing Products Accessible: The Prosperity4all Approach. In *Human Aspects of IT for the Aged Population. Design for Aging* (pp. 387-397). Springer International Publishing.
4. Evans GD, Blythe PT, Panou M, Bekiaris A. (2014). Evaluating Transport Technologies for Mitigating the Impact of Emergency Events: Findings from the SAVE ME Project. *International Journal of Transportation – Special Issue on Security in Surface Transportation Planning and Operations*, 2(3), 73-94.
5. Maria Panou, Katerina Toulou, Evangelos Bekiaris, Taxiarchis Tsaprounis (2013). Mobile phone application to support the elderly. In *International Journal of Cyber Society and Education (IJCSE)*, Vol. 6, No. 1, June 2013, p.51-56. DOI: 10.7903/ijcse.1047.
6. Maria Panou (2012), 'Personalized application for multimodal route guidance for travellers'. In *ETRR (European Transport Research Review – an Open Access Journal)*, Springer-Verlag, Vol. 4, Number 1/ March 2012, p. 19-26. ISSN 1867-0717. DOI 10.1007/s12544-011-0067-0.
7. Maged N. Kamel Boulos, Athanasios Anastasiou, Evangelos Bekiaris, Mary Panou (2011). "Geo-enabled technologies for independent living: Examples from four European projects", In *Technology and Disability Journal*, Vol. 23, Number 1 / 2011, p. 7-17. IOS press, ISSN 1055-4181 (Print), 1878-643X (Online).
8. Panou, M., Bekiaris, E., Hagenmeyer, L., Zoldan, C., "The use of IST tools as a support and guide of the assessors of disabled drivers, based on CONSENSUS work", In: *International Journal of Rehabilitation Research*, June 2004, Vol. 27, Sup. 1, ISSN 0342-5282, p. 72-73.
9. Sommer, S., Falkmer, T., Bekiaris, E. & Panou, M., "Toward a client-centred approach to Fitness-to-Drive Assessment of Elderly Drivers", in *Scandinavian Journal of Occupational Therapy*, March 2004, 11, p. 62 – 69.
10. Sommer, S., Bekiaris, E., Panou, M., "The AGILE project: an interdisciplinary European research project for the development of a new older driver assessment and rehabilitation system", In: *International Journal of Rehabilitation Research*, June 2004, Vol. 27, Sup. 1, ISSN 0342-5282, p. 71-72.
11. Bekiaris E., Amditis A., Panou M., "DRIVABILITY: A new concept for modelling driving performance", *International Journal of Cognition Technology&Work*, Springer-Verlag London Ltd, Vol.5, N. 2 / June 2003, p.152-161, ISSN: 1435-5558.

Scientific publications in books (indicative list, out of 18 publications in total)

1. Evangelos Bekiaris, Matina Loukea, Maria Panou, Erzsebet Foldesi, Thierry Jammes (2020). Seamless accessibility of transportation modes and multimodal transport across Europe: Gaps, measures and best practices. In Book: Towards User-Centric Transport in Europe 2 – Enablers of inclusive, seamless and sustainable mobility. Lecture notes in Mobility. Müller, Beate, Meyer, Gereon (Eds.). Springer, pp.43-59. ISBN 978-3-030-38028-1. <https://doi.org/10.1007/978-3-030-38028-1>.
2. Panou M., Bekiaris E., Chalkia E. (2018) Personalised Driver and Traveller Support Systems. In Book: Towards User-Centric Transport in Europe – Challenges, Solutions and Collaborations/ Lecture notes in Mobility. Müller, Beate, Meyer, Gereon (Eds.). Springer, pp.277-294. https://doi.org/10.1007/978-3-319-99756-8_18
3. Anabela dos Santos Simoes, Marta Pereira, Maria Panou (2011), 'Transversal perspectives in Human-Machine Interaction: The effect of age in human machine systems'. In Guy A. Boy (Ed.), The Handbook of Human-Machine Interaction; A Human-centered design approach' (pp. 383-397). Ashgate Pub Co. ISBN (hard book): 978-0-7546-7580-8, ISBN (ebook): 978-1-4094-1171-0.
4. V. Jimenez-Mixco, J.P. Leuteritz, E. Gaeta, M.F. Cabrera-Umpiérrez, M.T. Arredondo, H. Widlroither, and M. Panou, 'Development of Mobile Evacuation Guides for Travellers and Rescue Personnel'. Lecture Notes in Computer Science-LNCS 6768, pp 235-243, Springer-Verlag Berlin Heidelberg 2011. ISBN 978-3-642-21656-5.
5. Leuteritz, J.-P., Widlroither, H., Mourouzis, A., Panou, M., Antona, M., Leonidis, A. "Development of Open Platform Based Adaptive HCI Concepts for Elderly Users", in C. Stephanidis (Ed.): Universal Access in HCI, Part II, HCII 2009, Lecture Notes in Computer Science-LNCS 5615, pp. 684–693, Springer-Verlag Berlin Heidelberg 2009. ISBN 978-3-642-02709-3.
6. Bekiaris, E., Panou, M., Gaitanidou, E., Mourouzis, A., & Ringbauer, B. (2009), 'Intelligent mobility and transportation for all'. In C. Stephanidis (Ed.), The Universal Access Handbook (pp. 49-1; 49-29). Boca Raton, FL: Taylor & Francis (1.034 pages). ISBN: 978-0-8058-6280-5 (hardcover) – ISBN 10: 0805862803 (ebook).
7. M. Panou, E. Bekiaris, V. Papakostopoulos, "Modelling Driver Behaviour in EU and International Projects", Contribution in book "Modelling Driver Behaviour in Automotive Environments", Chapter I 'International Projects and Actions on Driver Modelling', with editors P.C. Cacciabue and C. Re, Springer-Verlag London Limited, 2007, p. 3-25.
8. Panou, M., Bekiaris, E., "ITS Clustering and Terminology: One concept with many meanings". In: Economic Impacts of Intelligent Transportation Systems. Innovations and Case Studies, Bekiaris, E., Nakanishi, Y., (Eds.), Research in Transportation Economics, Vol. 8, Elsevier, 2004, p. 49-67, ISBN: 0-7623-0978-4, ISSN: 0739-8859 (Series).

Scientific publications in international conferences (indicative list, out of 90 publications in total)

1. Maria C. Panou, Evangelos D. Bekiaris, Aikaterini A. Toulou, 'ADAS module in driving simulation for training young drivers', In 8th International IEEE Conference on Intelligent Transportation Systems. Madison: Omnipress 2010. Pp1582-1587. ISBN: 978-1-4244-7658-9, ISSN: 2153-0009.
2. Katerina Toulou, Evangelos Bekiaris, Evangelia Gaitanidou, Maria Panou, "The impact of aftermarket devices on distance keeping and traffic efficiency". In Proceedings of the 13th World Conference on Transport Research (WCTR), Rio de Janeiro, Brazil, 15-18 July 2013.
3. Evans Gd, Blythe Pt, Panou M (2013) "An application of Multi-Criteria Analysis to ascertain the desirability of individual system components within the SAVE ME Project" Proc. Of 9th ITS European Congress, Dublin, Ireland.
4. Eleni Chalkia, Evangelos Bekiaris, Maria Panou, Matina Loukea, 'The expansion of a scheme about ACCESSIBILITY in tourism at the cultural sector. In Universal Access in Human-Computer Interaction. Access to the Human Environment and Culture (pp.21-28). HCII 2015 LA, USA.
5. Bekiaris, E., Tsami, M., Panou M. (2016). A "Greening Mobility" Framework Towards Sustainability. In the 3rd Conference on Sustainable Urban Mobility (3rd CSUM 2016), 26 May 2016, Volos, Greece.
6. Loukea, M., Bekiaris, E., Panou, M., Goger, T., Adewole, A. (2016). Skills and competences development for the professionals of the future transportation sector - The SKILLFUL Project. In the International Congress of Automotive and Transport Engineering, 26-29 October 2016, Brasov, Romania.
7. E. Bekiaris, M. Loukea, M. Panou. Accessibility status of local transport systems in Europe- recommendations for improvements. In the 2018 Annual Conference of Polis Network. 22-23 November 2018, Manchester, UK.
8. Maria Panou, Miranda Maglavera, Needs and expectations of older passengers in using autonomous public transport. 3rd Award winner of Petcha Kutcha presentation at the 9th International Congress on Transportation Research, October 2019, Athens, Greece.
9. Michael Gogas, Mary Panou, Maria Gkemou, Aristotelis Spiliotis, Building up the Use Cases for an in-pavement C-ITS system taking into account key influencing factors and parameters. 9th International Congress on Transportation Research, October 2019, Athens, Greece.
10. I. Benekos, E. Bekiaris, M. Panou. "Do we need to agree on what resilience is? 10th International Congress on Transportation Research (ICTR 2021), September 2021, Rhodes, Greece.
11. Maria Tsami, Olga Giannakari, Maria Panou, Maria Papandreou, Development of advanced, safe and sustainable micromobility solutions. RelStat2021 - The 21th International Multi-Conference Reliability and Statistics in Transportation and Communication. 13-16 October'21, Riga, Latvia.
12. Stella Nikolaou, Ioannis Gragkopoulos, Ioannis Tsetsinas, Mary Panou, Connected VRUs to enhance vehicle perception and safe interaction with connected automated vehicles in urban environments. 7th HUMANIST Conference, 26-27 October 2021, Rhodes, Greece. ISBN : 978-2-9531712-6-6.

HONOURS AND AWARDS

EPSRC scholarship for postgraduate studies in the UK, during the years 1997-1998.

POSITIONS

Positions and Memberships

- **President of the Scientific Council of the Hellenic Institute of Transport**
- **Executive Board Member of the HUMANIST Association** (www.humanist-vce.eu)
- Former Vice president of the Hellenic Institute of electric vehicles (for the years 2018-2020) (www.heliev.gr)
- Member of the Forum of European Road Safety Institutes - FERSI (www.fersi.org)
- Member of the Association of Automotive R&D Organisations - EARPA (www.earpa.eu)
- Member of the Technical Chamber of Greece
- Member of the Union of Researchers in Greece