

NIKOLAOS GAVANAS

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UNIVERSITY OF
THESSALY



FIELDS OF SPECIALIZATION AND RESEARCH INTERESTS

- Transport planning
- Traffic engineering
- Transport policy
- Sustainable and smart mobility
- Infrastructure networks and spatial development

EXPERIENCE

- Assistant Professor in Transport Planning and Engineering, Department of Planning and Regional Development, University of Thessaly, Greece, since 2020.
- Director of the Research Unit of Infrastructure, Technology Policy and Development, University of Thessaly, since 2021.
- Member of the Sectoral Scientific Council on Environment, Energy, and Sustainable Mobility of the National Council for Research, Technology and Innovation, Greece, 2020-2023.
- Policy Analyst in the Strategy Unit of the Transport Directorate (H.1) and the Ecological and Social Transition Unit of the Healthy Planet Directorate (C.5) in the Directorate-General Research and Innovation (DG RTD) of the European Commission, Belgium, 2017-2020.
- Adjunct lecturer in Transportation, Department of Civil Engineering T.E. (Larissa), Technological Education Institute of Thessaly, Greece, 2011-2017.
- Adjunct lecturer in Transportation, School of Spatial Planning and Development, Aristotle University of Thessaloniki, Greece, 2008-2012.
- Transport engineer (freelance) in traffic studies, mobility plans and transport projects, 2005-2017.

EDUCATION

Ph.D. in Transportation, Aristotle University of Thessaloniki, Greece (2011).

M.Sc. in Planning, Organisation and Management of Transport Systems, School of Civil Engineering, School of Rural and Surveying Engineering Department, Aristotle University of Thessaloniki, Greece (2005).

M.Sc. (Integrated Master) in Civil Engineering, Aristotle University of Thessaloniki, Greece (2003).

PAPERS IN REFEREED JOURNALS (SELECTION)

1. Gavanas N., Chranta A.-K. (2026) Sustainable and smart mobility in the era of remote working. *Built Environment*, 52(2) (accepted for publication).
2. Niavis S., Gavanas N., Anastadiadou K., Arvanitidis P. (2025). Investigating users' acceptance of autonomous buses by examining their willingness to use and willingness to pay: The case of the city of Trikala, Greece. *Urban Science*, 9(8). <https://doi.org/10.3390/urbansci9080298>
3. Anastasiadou K., Gavanas N. (2025). Evaluation and selection of public transportation projects in terms of urban sustainability through a multi-criteria decision-support methodology. *Future Transportation*, 5(90). <https://doi.org/10.3390/futuretransp5030090>
4. Gavanas N., Anastasiadou K., Nathanail E., Basbas S. (2024). Transport policy pathways for autonomous road vehicles to promote Sustainable Urban Development in the European Union: A Multicriteria Analysis. *Land*, 13(11). <https://doi.org/10.3390/land13111807>
5. Nikolaidou A., Kopsacheilis A., Gavanas N., Politis I. (2024). Assessing the EU climate and energy policy priorities for transport and mobility through the analysis of user-generated social media content based on text-mining techniques. *Sustainability*, 16. <https://doi.org/10.3390/su16103932>
6. Anastasiadou K. Gavanas N. (2023). Enhancing urban public space through appropriate sustainable mobility policies. A multi-criteria analysis approach. *Land Use Policy*, 132, Sept. 2023. <https://doi.org/10.1016/j.landusepol.2023.106765>
7. Anastasiadou K., Gavanas N. (2022). State-of-the-art review of the key factors affecting electric vehicle adoption by consumers. *Energies*, 15. <https://doi.org/10.3390/en15249409>
8. Anastasiadou K., Gavanas N., Pyrgidis Ch., Pitsiava-Latinopoulou M. (2021). Identifying and prioritizing sustainable urban mobility barriers through a modified Delphi-AHP approach. *Sustainability*, 13(18). <https://doi.org/10.3390/su131810386>
9. Anastasiadou K., Gavanas N., Pitsiava-Latinopoulou M., Bekiaris E. (2021). Infrastructure planning for autonomous electric vehicles, integrating safety and sustainability aspects: A multi-criteria analysis approach. *Energies*, 14(17). <https://doi.org/10.3390/en14175269>
10. Gavanas N. (2019). Autonomous road vehicles: Challenges for urban planning in European cities. *Urban Science*, 3(2). <https://doi.org/10.3390/urbansci3020061>
11. Gavanas N., Moutsiakis E., Tasopoulou A., Verani E., Fourkas V. (2018). The territorial impact assessment of transport: The case of the Egnatia motorway system in the cohesion potential of South-East Europe. *Impact Assessment and Project Appraisal*, 36(4). <https://doi.org/10.1080/14615517.2018.1445181>
12. Pozoukidou G., Gavanas N., Verani E. (2016). Land use models and sustainable urban mobility plans: an integrative approach for strategic planning. *International Journal of Sustainable Development and Planning*, 12(5). <https://doi.org/10.2495/SDP-V12-N5-867-882>
13. Gavanas N., Pozoukidou G., Verani E. (2016). Integration of LUTI models into Sustainable Urban Mobility Plans (SUMP). *European Journal of Environmental Sciences*, 6(1). <https://doi.org/10.14712/23361964.2016.3>
14. Sotiriou M., Gavanas, N., Pitsiava-Latinopoulou, M. (2015). External costs due to congestion, accidents, energy consumption and emissions before and into the economic crisis. Pilot study along selected roadways of Thessaloniki, Greece. *Spatium*, 33. <https://doi.org/10.2298/spat1533033s>
15. Pitsiava-Latinopoulou M., Basbas S., Gavanas N. (2013). Implementation of alternative transport networks in University campuses: The case of the Aristotle University of Thessaloniki, Greece. *International Journal of Sustainability in Higher Education*, 14(3). <https://doi.org/10.1108/IJSHE-12-2011-0084>

16. Gavanas N., Pitsiava M. (2011). Description of the new member states transport system in an era of convergence - development of an indicator system. *Spatium*, 24.
<https://doi.org/10.2298/SPAT1124037G>

BOOKS, EDITING AND REPORTS

1. Nathanail E. G., Gavanas N., Adamos E. (eds.) (2025). *Climate Crisis and Resilient Transportation Systems, Lecture Notes in Intelligent Transportation and Infrastructure* (selected papers from the Proceedings of the 7th Conference on Sustainable Mobility, CSUM2024). Cham: Springer.
<https://doi.org/10.1007/978-3-031-82818-8> (Volume I); <https://doi.org/10.1007/978-3-031-82714-3> (Volume II)
2. Nathanail E. G., Gavanas N., Adamos G. (eds.) (2023). *Smart Energy for Smart Transport, Lecture Notes in Intelligent Transportation and Infrastructure* (selected papers from the Proceedings of the 6th Conference on Sustainable Urban Mobility, CSUM2022). Cham: Springer
<https://doi.org/10.1007/978-3-031-23721-8>
3. Gavanas N., Giannakou A., Panori A., Sdoukopoulos A. (eds.) (2022). *Spatial planning in the digital era*. Athens: Kritiki Publications (in Greek). ISBN: 9789605864200
4. Gavanas N. (2018). *Transport R&I Achievements Report 2017*. Studies and Reports. European Commission. Directorate-General for Research and Innovation. Luxembourg: Publications Office of the European Union. ISBN 978-92-79-77761-5.
5. Gavanas N., Papaioannou P. Pitsiava-Latinopoulou M., Politis I. (2015). *Urban transport networks and mobility management*. Athens: Kallipos. The Initiative of Open Academic Textbooks (online textbook in Greek). <https://repository.kallipos.gr/handle/11419/2081>

CHAPTERS IN BOOKS AND COLLECTIVE VOLUMES

1. Plaka G., Gavanas N. (2025). Assessing the potential to implement the “X minute city” concept in small and medium sized cities. The case of Volos, Greece, In: Nathanail E. G., Gavanas N., Adamos E. (eds.) (2025). *Climate Crisis and Resilient Transportation Systems, Lecture Notes in Intelligent Transportation and Infrastructure* (selected papers from the Proceedings of the 7th Conference on Sustainable Mobility, CSUM2024). Cham: Springer. https://doi.org/10.1007/978-3-031-82714-3_27
2. Kalogerakos G., Gavanas N. (2025). Impact of New Mobility Services on sustainable urban development: An assessment framework, In: Nathanail E. G., Gavanas N., Adamos E. (eds.) (2025). *Climate Crisis and Resilient Transportation Systems, Lecture Notes in Intelligent Transportation and Infrastructure* (selected papers from the Proceedings of the 7th Conference on Sustainable Mobility, CSUM2024). Cham: Springer. https://doi.org/10.1007/978-3-031-82714-3_29
3. Gavanas N. (2024). Intra-city clean smart and sustainable mobility, In: Medeiros E. (ed.) (2024). *Self-Sufficiency and Sustainable Cities and Regions*, 1st Edition. London: Routledge.
<https://doi.org/10.4324/9781003498216>
4. Gavanas N. (2024). Integrated urban transport planning in the era of autonomous vehicles, In: Thomopoulos N., Attard M., Shiftan Y. (eds.) (2024). *Sustainable Automated and Connected Transport, Transport and Sustainability*, 9. Bingley: Emerald Publishing Limited.
<https://doi.org/10.1108/S2044-994120240000019007>
5. Sdoukopoulos A., Gavanas N., Pitsiava-Latinopoulou M. (2023). Evaluating the quality of public spaces using crowdsourcing data: The case of the Metropolitan Area of Thessaloniki. In: Nathanail E. G., Gavanas N., Adamos G. (eds.) (2023). *Smart Energy for Smart Transport, Lecture Notes in Intelligent Transportation and Infrastructure* (selected papers from the Proceedings of the 6th

- Conference on Sustainable Mobility, CSUM2022). Cham: Springer. https://doi.org/10.1007/978-3-031-23721-8_46
6. Nikolaidou A., Kopsacheilis A., Gavanas N., Politis I. (2023). The dynamic relation of climate change and energy with transport and mobility policies in the EU through social media data mining. In: Nathanail E. G., Gavanas N., Adamos G. (eds.) (2023). *Smart Energy for Smart Transport, Lecture Notes in Intelligent Transportation and Infrastructure* (selected papers from the Proceedings of the 6th Conference on Sustainable Mobility, CSUM2022). Cham: Springer. https://doi.org/10.1007/978-3-031-23721-8_2
 7. Kalogerakos G., Gavanas N. (2023). Autonomous mobility as a means of innovation diffusion: The case of Trikala, Greece. In: Nathanail E. G., Gavanas N., Adamos G. (eds.) (2023). *Smart Energy for Smart Transport, Lecture Notes in Intelligent Transportation and Infrastructure* (selected papers from the Proceedings of the 6th Conference on Sustainable Mobility, CSUM2022). Cham: Springer. https://doi.org/10.1007/978-3-031-23721-8_36
 8. Gavanas N. (2022). Challenges and opportunities for integrated transport planning from the implementation of autonomous vehicles in the networks of cities, In: Gavanas N., Giannakou A., Panori A., Sdoukopoulos A. (eds.) (2022). *Spatial planning in the digital era*. Athens: Kritiki Publications (in Greek).
 9. Giannakou A., Gavanas N., Panori A., Sdoukopoulos A. (2022). Spatial planning in the digital era: An introduction to the central issues. In: Gavanas N., Giannakou A., Panori A., Sdoukopoulos A. (eds.) (2022). *Spatial planning in the digital era*. Athens: Kritiki Publications (in Greek).
 10. Sdoukopoulos A., Verani E., Nikolaidou A., Tsakalidis A., Gavanas N., Pitsiava-Latinopoulou M., Mikiki F., Mademli E., Pallas Ch. (2017). Development and implementation of walkability audits in Greek medium-sized cities: the case of the Serres' city centre. In: Nathanail E. G., Gogas M. A. (eds.) (2017). *Transportation Research Procedia*, 24 (selected papers from the Proceedings of the 3rd Conference on Sustainable Urban Mobility, 3rd CSUM 2016), Amsterdam: Elsevier. <https://doi.org/10.1016/j.trpro.2017.05.102>
 11. Gavanas N., Tsakalidis A., Pitsiava-Latinopoulou M. (2017). Assessment of the marginal social cost due to congestion using the speed flow function. In: Nathanail E. G., Gogas M. A. (eds.) (2017). *Transportation Research Procedia*, 24 (selected papers from the Proceedings of the 3rd Conference on Sustainable Urban Mobility, 3rd CSUM 2016), Amsterdam: Elsevier. <https://doi.org/10.1016/j.trpro.2017.05.115>
 12. Politis I., Gavanas N., Papaioannou P., Pitsiava-Latinopoulou M., Basbas S. (2012). Measuring the level of acceptance for sustainable mobility universities. In: Papaioannou P. (ed.) (2012). *Procedia - Social and Behavioral Sciences*, 48 (Proceeding of Transport Research Arena 2012), Amsterdam: Elsevier. <https://doi.org/10.1016/j.sbspro.2012.06.1246>

RESEARCH PROJECTS

1. "INVEST - Innovations of Regional Sustainability: European University Alliance", *ERASMUS+ Programme*, 2021-26. (researcher)
2. "DEMo4PPL - Digital Education Modules 4 Participatory Planning", *ERASMUS+ Programme*, 2024-25. (coordinator)
3. "Couriers Go Green! - Underpin Courier and Transportation Companies to Green their Operations", *ERASMUS+ Programme*, 2023-24. (researcher)
4. "Resilient Europe", *URBACT III Programme*, 2017-18. (expert scientist)

5. “RETIS-RISK – Integrated System for the Assessment and Management of Seismic Risk of Urban and Interurban Road Networks”, *ARISTEIA II - National Strategic Reference Framework Greece*, 2014. (researcher)
6. “ECOTALE - External Costs of Transport and Land Equalization”, *INTERREG Programme*, 2012-2013. (researcher)
7. “WISERIDE - Development of a System of Traffic, Environmental and Energy Data from the Road Network of the Urban Area of Thessaloniki”, *SYNERGASIA - National Strategic Reference Framework Greece*, 2011-13. (researcher)
8. “SIMCODE-IGT - Spatial Impacts of Multimodal Corridor Development in Gateway Areas: Italy-Greece-Turkey”, *INTERREG Programme*, 2006-08. (researcher)
9. “SEMSON - South Eastern Mediterranean Spatial Observatory Network”, *INTERREG Programme*, 2006. (researcher)
10. “Spatial Integration of Policies for Sustainable Urban Development and Digital Governance. Experience and Prospects for the Metropolitan Area of Thessaloniki”, *PYTHAGORAS – 3rd Community Support Framework*, 2005-06. (researcher)

TEACHING

Teaching experience of more than 15 years as adjunct lecturer in the School of Spatial Planning and Development of Aristotle University of Thessaloniki, Greece (2008 – 2012) and in the Department of Civil Engineering T.E. (Larissa), former Technological Education Institute of Thessaly (2011 – 2017) and as Assistant Professor in the Department of Planning and Regional Development, School of Engineering, University of Thessaly (2020 - today). Teaching topics include: transport planning, mobility management, roadway design, traffic engineering, transport policy, infrastructure and technology policy, land-use and transport interaction (at undergraduate level); transportation and spatial development, spatial planning and digital transition, resilient transport planning, megaprojects (at postgraduate level).

INVITED SPEAKER

1. Gavanas N. (2023, 2024, 2025) EU policy for sustainable transport and mobility. Invited speaker in the framework of undergraduate course: *International Transport Policy and Planning*, School of Hospitality and Tourism Management, Faculty of Arts and Social Sciences, University of Surrey, UK.
2. Gavanas, N. (2024). Transport infrastructure and networks in the era of teleworking. Invited speaker in Roundtable Discussion: *Rethinking the future of cities; Impacts & challenges of teleworking*. International Conference Changing Cities VI, Rhodes Island, Greece, 24-28/6/2024