

Curriculum Vitae
Apostolos Kantartzis
Associate Professor

CONTACT INFORMATION

Department of Forestry & Management of the Environment & Natural Resources Democritus University of Thrace, Greece

e-mail: apkantar@fmenr.duth.gr,

Web: <https://scholar.google.gr/citations?user=zZfj3WgAAAAJ&hl=el>

RESEARCH INTERESTS: Low-Volume Roads Engineering, Geoinformatics and Forest Operations Engineering, Hiking Trails Design, Spatial Data Mapping and GIS, Urban Green Infrastructure.

Dr. Apostolos Kantartzis is Associate Professor at the Department of Forestry & Management of the Environment & Natural Resources, Democritus University of Thrace, Greece. He teaches among others the following courses: Building Science and Structural Materials, Digital Design of Forest Road Construction - Forest Engineering, Soil Mechanics – Machinery Applications in Forest Works, Technical Drawing - Geo-Informatics.

Dr. Kantartzis is working in the field of Geoinformatics and Forest operations engineering with main research interests in low-volume roads (LVRs), spanning in the full range of transportation forest engineering— planning, route investigation, geometric design, construction, road maintenance, costs and safety, reducing vulnerability of roads to natural disasters and so forth in addition his research is also concentrated on drainage control of low-volume roads, restoration and improvement, drainage and structures, maintenance operations, and finance. However, part of his recent work also looks into elements of Urban Green Infrastructure.

He holds a PhD in Forest Cadastre Studies & Forest Road Construction.

He has published papers in international refereed journals, such as: «Land», «International Journal of Sustainable Agricultural Management and Informatics», «Forestry», «Euro-Mediterranean Journal for Environmental Integration», «International Journal of Engineering Research and Development», Energies etc.

SELECTED RELEVANT PUBLICATIONS IN REFEREED INTERNATIONAL JOURNALS

Kantartzis, A., Marnasidis, S., Daoutis, C., Moulogianni, C., Tampekis, S., Arabatzis, G. (2023).
«The contribution of the forest road network to the spatial organisation of nomadic

beekeeping». International Journal of Sustainable Agricultural Management and Informatics, 2023, 9(1), pp. 41–55. DOI: 10.1504/IJSAMI.2023.127537.(Science Citation Index, Impact Factor =1.2).

Kantartzis, A.,(2023)«Implementation of multi-criteria evaluation for mapping the spatial variability of optimal forest road network» International Journal of Sustainable Agricultural Management and Informatics 9(3):275-293Follow journal DOI: 10.1504/IJSAMI.2023.131908. (.Science Citation Index,Impact Factor =1.2)

Tsiotas,D., **Kantartzis, A.,Kolkos, G.,Lemonakis, P.,Arabatzis, G.(2023)«A modularity total environment network model for sustainable forest transportation»** Euro-Mediterranean Journal for Environmental Integration, 2023.DOI:10.1007/s41207-023-00410-1. (**Science Citation Index, ImpactFactor =2**).

Kantartzis, A., Lemonakis, P., Malesios, C., Daoutis, C.,Galatsidas, S., Arabatzis, G.(2022). «Attitudes and Views of Citizens Regarding the Contribution of the Trail Paths in Protection and Promotion of Natural Environment». Land, 2022, 11(9), 1585.DOI: 10.3390/land11091585. (**Science Citation Index, Impact Factor =3.905**)

Eftaxias, A.,Passa, E.A., Michailidis, C.,Dautis,C.,**Kantartzis, A.,Diamantis, V.** (2022)«Residual Forest Biomass in Pinus Stands: Accumulation and Biogas Production Potential».Energies, 2022, 15(14), 5233.<https://doi.org/10.3390/en15145233>. (**Science Citation Index, Impact Factor =3.252**)

Kantartzis,A, Malesios, C.(2018). «A decision support system web-application for the management of forest road network».Journal of Environmental Science and Engineering A 7 (1), 8-21

Panagopoulos, T, Tampakis, S,Karanikola, P, A Karipidou-Kanari, A,**Kantartzis, A,** (2018).«The Usage and Perception of Pedestrian and Cycling Streets on Residents' Well-being in Kalamaria, Greece».Land 7 (100)

Kantartzis, A,(2018).«A visualization tool for forest landscape using open software».

PARTICIPATION IN RESEARCH PROGRAMS

Principal Investigator:

1. In the project titled «Documentation, mapping, assessment, and management of the beekeeping flora in the fire-affected area of the National Park of Dadia - Lefkimi - Soufli, in other areas of the Evros Regional Unit and in regions of the country that have been impacted by extreme natural phenomena in 2023 - Beekeeping Year 2024». Project ID: 83285 SARF DUTH,» Objective: The creation of beekeeping parks aims to organize beekeepers in designated areas, which, along with the enhancement of the beekeeping flora, will allow beekeepers to utilize these resources, increase their production, and reduce costs. Funding Body: Ministry of Rural Development & Food
2. In the context of the program titled: «Promotion and showcasing of the natural environment and enhancement of the hiking trails in the wider area of mountainous Rhodope and the Nestos River»Project ID: 83199 SARF DUTH, from 29/01/2024 to 20/12/2024.Objective: Documentation of existing infrastructure related to the natural environment, as well as the hiking trails in the area, alongside highlighting actions and projects that can be implemented by local authorities, aimed at promoting and enhancing the natural environment. Funding Body: Regional Union of Municipalities of Eastern Macedonia and Thrace (EMT)
3. In the project titled «Research on the marking, signaling, and enhancement of hiking and mountaineering trails in the wider area of Paiko» Project ID: 83077 SARF DUTH from 10/05/2023 to 09/12/2023.Objective: Preparation of a feasibility study and economic-technical study, organization, and mapping of hiking routes and trails. Funding Body: Municipality of Pella
4. In the project titled «Design of a Model Beekeeping Garden around 'AGIOS GEORGIOS' in the municipal community of Istiaia in northern Evia» Project ID: 83039 SARF DUTH from 22/02/2023 to 30/04/2023. Objective: Mapping and spatial analysis of the project, development of a network of hiking routes and trails. Funding Body: Kapetan Vasilis and Carmen Konstantakopoulos Foundation
5. In the project titled «Design and installation of a beekeeping park around 'Kotronia' of the National Park of Dadia - Lefkimi – Soufli» Project ID: 82908 SARF DUTH as part of the program to improve the production and marketing of beekeeping products, from

18/05/2022 to 31/07/2022. Objective: Project supervision, development of roads and beekeeping locations, and technical works for environmental protection. Funding Body: 50% of the above expense is covered by the budget code 4324 of the ELGEPP, while the remaining 50% is covered by the credits of the Public Investment Program (PIP) of the Ministry of Rural Development and Food, SA 082/2.

6. In the project titled: «Study of the specifications for the spatial distribution and placement of beehives, in relation to their impact on the environment and agricultural production» Project ID: 82682 SARF DUTH, which is part of Action 6.1 “Applied Research” in Beekeeping within the framework of the program for improving the production and marketing of beekeeping products for the years 2020-2022, from 24/03/2021 to 31/07/2022. Objective: Mapping and spatial analysis of the distribution of beehives in cultivated areas as well as in public lands of beekeeping interest, creating locations for placing beehives outside the forest road network. Funding agency: 50% of the above expense is covered by the code 4324 of ELGEPP, while the remaining 50% is covered by the credits of the Public Investment Program (PDE) of the Ministry of Rural Development and Food, code 082/2.

B) Participation in Project Implementation

1. Participation in the program «Implementation of Interventions with Own Means (Implementing Body: DUTH) (Project Code: OPS TA 5161070) »Project ID: 83051 SARF DUTH for the period from 02/05/2023 to 31/1/2025. Objective: Participation in the drafting of technical reports for P1 & P2, within the framework of the operational programs:"EE1: Policies for the Modernization of Forest Nurseries, EE2: Parameters for the Development of Forest Nurseries and Reforestation," with involvement in parts of deliverables P1: Technical Report of Works: Policies for the Modernization of Forest Nurseries and Reforestation, P2: Technical Report of Works: Parameters for the Development of Forest Nurseries and Reforestation. Scientific Supervisor: Mr. Georgios Tsantopoulos.
2. Participation in the LIFE program titled «Addressing the Threat of Invasive Species in Northern Greece, through the Development of Early Warning Systems and Information for Mammals» / LIFE ATIAS Project ID: 82383 SARF DUTH for the period from 07/04/2021 to 30/09/2022. Objective: Participation in action C2 - ecological & biological parameter analysis. Scientific Supervisor: Ms. Malamati Papakosta.
3. Participation as a researcher in the program «Development of a Fire Early Warning System in Historical Centers and Old Towns in Contact with the Surrounding

Greenery»Project ID:82517 SARF DUTH for the period from 07/10/2020 to 30/11/2021. Objective: Fieldwork (measurements of technical characteristics of the road network, tree height measurements, identification of vegetation types), drafting of technical reports and scientific papers. Scientific Supervisor: Mr. Vasileios Diamantis.

4. Participation as a researcher in the program titled: «Investigation of Accretion Trends of the Marions Dam in Thassos and Assessment of the Water Potential of the Area due to the Operation of the Quarry of the Company Natural Stones at Psitaki» Project ID: 82699, SARF DUTH covering an area of 95,808 m², from 17/05/2021 to 21/05/2021.Objective: Creation of an ArcGIS geodatabase Scientific Supervisor: Mr. Apostolos Vasilious.
5. Participation as a researcher in the program titled «Thales - Democritus University of Thrace, Protection system for the sustainable development of semi-mountainous forests» specifically in Action 4 «Development of skills for young researchers in programs supporting regions»Project ID: 81090, SARF DUTH from 25/07/2013 to 30/09/2015. Objective: Monograph (doctoral research). Scientific Supervisor: Mr. Konstantinos Soutsas.