



Paschalis Koutalakis has been a Postdoctoral Researcher in the Department of Marine Sciences since 2023. His postdoctoral research, supervised by Professor Ourania Tzoraki, focuses on the hydro-morphological assessment of ephemeral and intermittent streams, transitional waters, and river deltas using machine learning algorithms and Remotely Piloted Aircraft Systems (RPAS/UAVs).

He has extensive research and teaching experience, complemented by a strong publication record in the fields of Geology, Hydrology, Hydrogeology, Geomorphology, Natural Hazards, Geographic Information Systems (GIS), Remote Sensing, Solid

Waste Management, environmental applications, spatial mapping using Unmanned Aerial and Underwater Vehicles (UAVs/UUVs), and hydrological modelling for water resources management.

EDUCATION

- 2021: PhD in the field of Watershed and Coastal Management, Department of Marine Sciences, School of Environment, University of the Aegean.
- 2014: Master's degree in Mediterranean Water Resources Management, Department of Forestry and Environmental Management, Higher Technological Educational Institution of Eastern Macedonia and Thrace.
- 2011: Degree in Geology, School of Natural Sciences, Aristotle University of Thessaloniki.

TEACHING EXPERIENCE

- 03/2024-06/2024: Teaching Assistant at the Department of Surveying & Geoinformatics Engineering, School of Engineering, International Hellenic University, Teaching the spring core undergraduate course "General & Applied Geology".
- 10/2022- 02/2024: Academic Fellow at the Department of Forestry and Natural Environment, School of Geotechnical Sciences, International Hellenic University, Teaching the winter elective undergraduate course "Geology".
- 2018-2019: Teaching assistant at the courses 1) "GIS for Water Management" and 2) "Flood Risk Analysis-Flood Models" of the Postgraduate Program "Man and Water" Department of Forestry and Environmental Management, Higher Technological Educational Institution of Eastern Macedonia and Thrace.

RESEARCH EXPERIENCE

- 01/2023- 04/2023: External collaborator of the International Hellenic University within the framework of the "Erasmus Mundus Integrated Master's in Hydro-InfoGraphics for Mediterranean and arid environments" program.
- 2/2021- 07/2023: External collaborator of the International Hellenic University within the framework of the "Fortress against Floods" program.
- 1/2021- 07/2023: External collaborator of the International Hellenic University within the framework of the "Protect-Streams-4-Sea" program.

- 5/2021- 9/2021: External collaborator of the University of the Aegean within the framework of the "AEGIS" program.
- 4/2020-7/2020: External collaborator of the International Hellenic University in the framework of the program "Innovations in Water Education Programs: Enhancing Water Security & Socio-economic Development in the E. Med. under Climate Change (WaSec)".
- 1/2019-7/2019: External collaborator of the TEI of Eastern Macedonia Thrace in the framework of the program "Monitoring and Development of the Riparian Areas of the Municipality of Drama".
- 7/2015-11/2015: External collaborator of the TEI of Eastern Macedonia Thrace in the framework of the European program "MapErosion".
- 08/2014-11/2014: External collaborator of the Technical University of Eastern Macedonia and Thrace and the University of Artvin in Turkey within the framework of the European program "Streams 2 Suppress Fires".

LANGUAGES

- Greek: Native.
- English: Proficient.

COMPUTERS/SOFTWARE SKILLS

- Knowledge/Use of M/S Windows 98/2000/XP/VISTA/7/8/10/11.
- ECDL Progress Certificate: Word, Excel, Powerpoint, Access, Internet, E-mail, Windows.
- Indicative Software: ArcGIS/ArcMap, ArcGIS PRO, QGIS, ERDAS IMAGINE, Agisoft Photoscan Metashape, Pix4D, Modflow, Hydrologic model SWAT, HEC-RAS, HEC-HMS, Grapher, Adobe Photoshop CS4, Compac Visual FORTRAN, MATLAB, Generic Mapping Tools, HBV model, etc.

DRIVING LICENCES

- Car driving license (Category B).
- Motorcycle driving license 125cc (Category A1).
- UAV pilot license: Open category A1 - A3, Open category A2.

SCIENTIFIC COLLABORATIONS AND PARTICIPATIONS

- Member of the UNESCO Con-E-ECT research group "Conservation and Ecotourism in Riparian and Deltaic Ecosystems".
- Member of the Forum of Young Researchers of the COST-ACTION project Management of Intermittent Rivers and Ephemeral Streams (SMIRES) in 27 countries.
- Member of the Panhellenic Association of Public Doctors (PASYD).
- Member of the Geotechnical Chamber of Greece

CONFERENCE ORGANIZING/SCIENTIFIC COMMITTEE

- 2nd International Interdisciplinary Conference of Public Sector PhDs, with the theme: "Sustainable Development, Innovation and Public Governance". 26-27 September 2026. City: Athens, Greece and Online.

- International Conference (Member of the Organizing Committee) - Frontiers In Environmental and Water Management. 19-21 May 2015. City: Kavala, Greece.
- International Conference (CHAIR & SCIENTIFIC COMMITTEE) – Protecting water resources with nature-based solutions. 24-26 May 2023. City: Drama, Greece.

REVIEWER

- Geocarto International <https://www.tandfonline.com/journals/tgei20>
- Geohazards <https://www.mdpi.com/journal/geohazards>
- Water <https://www.mdpi.com/journal/water>
- Drones <https://www.mdpi.com/journal/drones>
- Sustainability <https://www.mdpi.com/journal/sustainability>
- Hydrology <https://www.mdpi.com/journal/hydrology>
- Remote Sensing <https://www.mdpi.com/journal/remotesensing>
- Watershed Ecology <https://www.sciepublish.com/journals/jwe>
- Applied Sciences <https://www.mdpi.com/journal/applsci>
- Computers <https://www.mdpi.com/journal/computers>

EDITOR

- MDPI Drones (Special Issue: Advances of Unmanned Aerial Vehicles in Hydrology).
- MDPI Sustainability (Special Issue: Applications of Remote Sensing Techniques and Geographic Information Systems (GIS) to Sustainable Hydrological Modelling and Watershed Management).
- MDPI Sustainability (Special Issue: Watershed Hydrology and Sustainable Water Environments).

AWARDS

- The 8th International Conference on Water Resource and Environment (WRE 2022) online via Microsoft Teams at Xi'an, China during November 1-4, 2022. WRE 2022 Best Awards. Session 1: Marine Science, Ecology, and Geosciences. Title Presentation: Targeted Approaches to Implement Nature-Based Solutions in Aggitis Watershed, Greece with the Use of New Technologies.
- 1st Mediterranean Geosciences Union (MedGU-21), November 25-28, 2021, Istanbul., Turkey. Best paper: TRACK 10. Hydrology, Hydrogeology, Hydrochemistry. Title Presentation: "ID 429: Identifying the sources and the contributions of inland sediment and litter pollutants to enhance the Black Sea through nature-based solutions."

SUMMER SCHOOL

- Participation in the funded summer school entitled "Floods and Flood Risk Management". September 17-23 2017. City: Mytilene, Lesvos, Greece. Funded by the German Academic Exchange Service Deutscher Akademischer Austauschdienst (DAAD).

CONTINUOUS TRAINING

- Webinar: "Practice in NotebookLM". Google (June 30, 2026).

- Webinar: "AI Pioneers in Natural Disasters". Science For You and Democritus University of Thrace and John S. Latsis Public Benefit Foundation (June 27, 2026).
- Webinar: "Understanding Artificial Intelligence: Focusing on Gemini". Google (June 25, 2026).
- Webinar: Advanced Geocell Technology for Slope Protection. MACCAFERRI (February 12, 2026).
- Webinar: "Engineering Landfill Compliance: Sustainable Solutions for Every Phase". MACCAFERRI (April 15, 2025).
- Webinar: "The role of geotechnical engineers in the management of flood phenomena and in the preparation of flood risk management plans». Geotechnical Chamber of Greece (April 8, 2025).
- Webinar: "Water resources management and climate crisis. Challenges-Suggestions». Association of Greek Geologists and Geotechnical Chamber of Greece and (April 25, 2024).
- Webinar: "Smart interdisciplinary system to support coastal zone monitoring with mixed infrastructure: urban - industrial - critical infrastructure, using interoperable technologies EPIPELAGIC". Department of Marine Sciences, University of the Aegean (June 1, 2023).
- Webinar: "Contribution of Geoinformatics in Soil Erosion Modeling". Geophysics - Satellite Remote Sensing and Archaeological Environment Laboratory of the Institute of Mediterranean Studies - Research and Technology Foundation, and the Technical University of Crete (February 4, 2022).
- Webinar: "3rd Virtual ADAPTtoCLIMATE". Department of Environment of the Ministry of Agriculture, Rural Development and Environment of Cyprus, the National Technical University of Athens and the National Observatory of Athens together with the LIFE Urban Proof project team (April 19-20, 2021).
- Webinar: "Smart ports - the case of the port of Ostend" speaker Wim Stubbe. Laboratory of Coastal Morphodynamics-Management and Marine Geology, Department of Oceanography and Marine Biosciences, University of the Aegean (December 22, 2020).
- Webinar: "The YESTERDAY TODAY TOMORROW of the flood under ERMIS-F", Department of Oceanography and Marine Biosciences, University of the Aegean (October 30, 2020).
- Webinar: "Drones Pro 3S - Safety - Security - Surveillance. Expoline, SMARTPRESS, Tree Company. (January 27-28, 2021).
- Webinar: "ReNature Nature-Based Solutions Webinar" (Italy and Malta, June 26, 2020).
- Webinar: "Temporary Rivers and Streams 2020" (UK, June, 23 2020).
- Webinar: WaSec "e-courses tuning workshop" (Cyprus, March, 2020).
- Seminar: Ειδικής Γραμματείας Υδάτων με θέμα "1st Revision of the River Basin Management Plan of the Eastern Macedonia Water District [11]". Special Water Secretariat of Greece (Serres, October 18, 2017).
- Seminar: "Flood Risk Management Plan for the Water District of Eastern Macedonia [11]". Special Water Secretariat of Greece (Serres, October 18, 2017).

- Summer School: "Floods and Flood Risk Management". University of the Aegean and the German Jade University of Applied Sciences with funding from the German Academic Exchange Service Deutscher Akademischer Austauschdienst (DAAD), (Mytilene, Lesvos, September 17-23, 2017).
- Seminar: "UAV & Drone Applications in Greece". Geomapplica (Thessaloniki, March 31, 2017).
- Seminar: "The Findings of the working group on the Tenagi of Philippi". Eastern Macedonia branch of Geotechnical Chamber of Greece. (Lydia Kavallas, November 16, 2016).
- Seminar: "Riparian and Deltaic Ecosystems: management practices and perspectives for Sustainable Development". UNESCO Chair Con-E-Ect (Drama, November 7, 2016)
- Seminar: "Recording the current state of exploitation of mineral wealth and proposals for its better exploitation in the region of Eastern Macedonia". Eastern Macedonia branch of Geotechnical Chamber of Greece. (Drama, May 13, 2016).
- Seminar: "Ecotourism and Education". Department of Forestry and Natural Environment Management (Drama, 28-29 May 2015).
- Workshop: "Innovations in Fire Suppression". Department of Forestry and Natural Environment Management (Drama, 17-18 October 2013).
- Seminar: "Seismic Hazard in the wider Eastern Macedonia and Thrace" Eastern Macedonia branch of Geotechnical Chamber of Greece (Kavala, April 1, 2013).

PUBLICATIONS

Scientific Journals

- Pagonis, G., Gkiatas, G., Koutalakis, P., Iakovoglou, V., & Zaimes, G.N. (2025). Assessing Stream Bank Erosion with a Visual Assessment Protocol in Streams Around Drama City, Greece. *Land*, 14(10), 1963. <https://doi.org/10.3390/land14101963>
- L Gallitelli, P Girard, U Andriolo, M Liro, G Suaria, C Martin, AL Lusher, K Hancke, MCM Blettler, O Garcia-Garin, IE Napper, L Corbari, A C  zar, C Morales-Caselles, D Gonz  lez-Fern  ndez, J Gasperi, T Giarrizzo, G Cesarini, K De, M Constant, P Koutalakis, G Gon  alves, P Sharma, S Gundogdu, R Kumar, NA Garelo, ALG Camargo, K Topouzelis, F Galgani, SJ Royer, GN Zaimes, F Rotta, S Lavender, V Nava, J Castro-Jim  nez, T Mani, R Crosti, VM Azevedo-Santos, F Bessa, R Tramoy, MF Costa, C Corbau, A Montanari, C Battisti, M Scalici (2024) Monitoring macroplastics in aquatic and terrestrial ecosystems: Expert survey reveals visual and drone-based census as most effective techniques. *Science of The Total Environment*, 955, 176528. <https://doi.org/10.1016/j.scitotenv.2024.176528>
- Koutalakis, P., Zaimes, G. (2024) The Development of an Online Decision Support System to Select Optimal Nature-Based Solutions to Protect Streams and the Sea. *Platforms*, 2(3), 118-137. <https://doi.org/10.3390/platforms2030008>
- Koutalakis, P., Gkiatas, G., Xinogalos, M., Iakovoglou, V., Kasapidis, I., Pagonis, G., Savvopoulou, A., Krikopoulos, K., Klepousniotis, T., Zaimes, G.N. (2024) Estimating Stream Bank and Bed Erosion and Deposition with Innovative and Traditional Methods. *Land*, 13, 232. <https://doi.org/10.3390/land13020232>

- Koutalakis, P., Stamataki, M.D., Tzoraki, O. (2023) Enhancing the Monitoring Protocols of Intermittent Flow Rivers with UAV-Based Optical Methods to Estimate the River Flow and Evaluate Their Environmental Status. *Drones and Autonomous Vehicles*. 2023, 1(1), 10006; <https://doi.org/10.35534/dav.2023.10006>
- Koutalakis, P., Gkiatas, G., Iakovoglou, V., Zaimes G.N. (2023) New Technologies to Assess and Map an Urban Riparian Area in Drama, Greece, and Determine Opportunity Sites for Litter Traps. *Sustainability*, 15(21), 15620. <https://doi.org/10.3390/su152115620>
- Zaimes, G., Koutalakis, P., Gkiatas, G., Iakovoglou, V., Marinescu, M., Ristea, O., Corobov, R., Trombitsky, I., Tufekcioglu, M., Yavuz, M., Tufekcioglu, A., Duman, A. (2023) Joint Innovative Monitoring to Reduce Nonpoint Source Pollutants and Litter in The Black Sea. *Climate Economics and Social Impact (CESI)* 1(1), 1-6. <https://doi.org/10.56868/cesi.v1i1.3>
- Yavuz, M., Koutalakis, P., Diaconu, D.C., Gkiatas, G., Zaimes, G. N., Tufekcioglu, M., & Marinescu, M. (2023) Identification of Streamside Landslides with the Use of Unmanned Aerial Vehicles (UAVs) in Greece, Romania, and Turkey. *Remote Sensing*, 15(4), 1006. <https://doi.org/10.3390/rs15041006>
- Diaconu, D.C., Koutalakis, P.D., Gkiatas, G.T., Dascalu, G.V., & Zaimes, G.N. (2023) River Sand and Gravel Mining Monitoring Using Remote Sensing and UAVs. *Sustainability*, 15(3), 1944. <https://doi.org/10.3390/su15031944>
- Gkiatas, G., Koutalakis, P., Kasapidis, I., Iakovoglou, V. and Zaimes G. (2022) Monitoring and Quantifying the Fluvio-Geomorphological Changes in a Torrent Channel Using Images from Unmanned Aerial Vehicles. *Hydrology*, 9, 184. <https://doi.org/10.3390/hydrology9100184>
- Koutalakis, P. and Zaimes G. (2022) River Flow Measurements Utilizing UAV-Based Surface Velocimetry and Bathymetry Coupled with Sonar. *Hydrology* 9(8), 148. <https://doi.org/10.3390/hydrology9080148>
- Koutalakis, P.; Tzoraki, O.; Prazioutis, G.; Gkiatas, G.; Zaimes, G.N. (2021) Can Drones Map Earth Cracks? Landslide Measurements in North Greece Using UAV Photogrammetry for Nature-Based Solutions. *Sustainability* 13(9), 4697. <https://doi.org/10.3390/su13094697>
- Gkiatas, G.; Kasapidis, I.; Koutalakis, P.; Iakovoglou, V.; Savvopoulou, A.; Germantzidis, I.; Zaimes, G.N. (2021) Enhancing urban and sub-urban riparian areas through ecosystem services and ecotourism activities. *Water Supply* ws2021114. <https://doi.org/10.2166/ws.2021.114>
- Koutalakis, P.; Tzoraki, O.; Zaimes, G.N. (2021) Software utilized for image-based velocimetry methods focused on water resources. *Desalination and Water Treatment* 218, 1-17. <https://doi.org/10.5004/dwt.2021.26923>
- Koutalakis, P.; Tzoraki, O.; Gkiatas, G.; Zaimes, G.N. (2020) Using UAV to Capture and Record Torrent Bed and Banks, Flood Debris, and Riparian Areas. *Drones*, 4, 77. <https://doi.org/10.3390/drones4040077>
- Koutalakis, P.; Tzoraki, O.; Zaimes, G. (2019) "Detecting riverbank changes with remote sensing tools. Case study: Aggitis River in Greece", *Analele Universității "Dunărea de Jos" din Galați. Fascicula II, Matematică, fizică, mecanică teoretică / Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 42(2), pp. 134-142. <https://doi.org/10.35219/ann-ugal-math-physics-mec.2019.2.03>.

- Koutalakis P.; Tzoraki, O.; Zaimes, G. (2019) UAVs for Hydrologic Scopes: Application of a Low-Cost UAV to Estimate Surface Water Velocity by Using Three Different Image-Based Methods. *Drones*, 3, 4. <https://doi.org/10.3390/drones3010014>
- Bormann, H.; de Brito, M.M.; Charchousi, D.; Chatzistratis, D.; David, A.; Grosser, P.F.; Kobschull, J.; Konis, A.; Koutalakis, P.; Korali, A.; Krauzig, N.; Meier, J.; Meliadou, V.; Meinhardt, M.; Munnely, K.; Stephan, C. de Vos, L.F.; Dietrich, J.; Tzoraki, O. (2018) Impact of Hydrological Modellers' Decisions and Attitude on the Performance of a Calibrated Conceptual Catchment Model: Results from a 'Modelling Contest'. *Hydrology*, Vol. 5(4), p. 64. <https://doi.org/10.3390/hydrology5040064>
- Tufekcioglu, M.; Yavuz, M.; Zaimes, G.N.; Dinc, M.; Koutalakis, P.; Tudekcioglu, A. (2017) Application of Soil Water Assessment Tool (SWAT) to suppress wildfire at Bayam Forest, Turkey. *Journal of Environmental Biology*, Vol. 38 (5), pp. 719-726. <https://doi.org/10.22438/jeb/38/5/MRN-331>
- Koutalakis, P.; Vlachopoulou, A.; Emmanouloudis, D.; Zaimes, G.N. (2017) Simulation of torrent discharge using SWAT and evaluation by field survey in Thasos Island. *Journal of Engineering Science and Technology Review*, Vol. 10 (3), pp 7-10. <https://doi.org/10.25103/jestr.103.02>
- Koutalakis, P.; Zaimes, G.N.; Ioannou, K.; Iakovoglou, V. (2017) Application of the SWAT model on torrents of the Menoikio, Greece. *Fresenius Environmental Bulletin*, Vol. 26 (2), pp. 1210-1215.
- Zaimes, G.N.; Ioannou, K.; Iakovoglou, V.; Kosmadakis, I.; Koutalakis, P.; Ranis, G.; Emmanouloudis, D.; Schultz, R.C. (2016) Improving Soil Erosion Prevention in Greece with New Tools. *Journal of Engineering Science and Technology Review*, Vol. 9 (2), pp. 66-71.
- Koutalakis, P.; Zaimes, G.N.; Ioannou, K.; Iakovoglou, V. (2015) Reviewing Soil Erosion in Greece. *World Academy of Science, Engineering and Technology, International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering*, Vol. 9 (8), pp. 846 – 851.
- Zaimes, G.N.; Iakovoglou, V.; Koutalakis, P.; Ioannou, K.; Kosmadakis, I.; Tsardaklis, P.; Laopoulos, T. (2015) The Automated Soil Erosion Monitoring System (ASEMS) *World Academy of Science, Engineering and Technology, International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering*, Vol. 9 (10), pp. 599 – 602.

International Scientific Conferences

- Koutalakis P., Tsompanoglou K., Poulis K., Kotsikari S., Laspidis T., Goutsios T., Athanasiou A., Petros Iliadis P., Drizis E., Veneti E., Georgios Spyrou G., Petridis G., Dachlidis A. (2026) GIS-Based Groundwater Level Mapping for the Mavrorachi Landfill Site in Greece. In proceedings of the 6th EWaS International Conference (EWaS6), Thessaloniki, Greece. 11–14 May 2026. <https://doi.org/10.3390/eesp2026044015>
- P. Koutalakis, G.N. Zaimes, G. Gkiatas, I. Kasapidis, G. Pagonis and M. Xinogalos (2024) Using terrestrial laser scanning surveying techniques to capture the channel morphology change after high flow. In proceedings of the Dniester River Basin Conference, Eco-TIRAS, CHIȘINĂU — TIRASPOL, Online, 15 November 2024. <https://doi.org/10.70739/gbp2024.34>

- Koutalakis, P. and Zaimes, G. (2024) How climate change could impact the water resources of the Aggitis River Basin in Greece? In proceedings of the 8th International Electronic Conference on Water Sciences (ECWS-8), Online, 14-16 October 2024.
- Koutalakis, P., Gkiatas, G. and Zaimes, G. (2024) Multi-Criteria Decision Analysis for Mapping Erosion Potential in the Aggitis River Watershed in Northern Greece. In proceedings of the 5th International Congress on Applied Ichthyology, Oceanography, and Aquatic Environment (HydroMediT 2024), Mytilene, Greece, 30 May - 2 June 2024.
- Zaimes, G., Iakovoglou, V., Koutalakis, P., and Gkiatas, G. (2024) Utilizing new technologies and nature-based solutions for sustainable urban riparian area management, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-3627, <https://doi.org/10.5194/egusphere-egu24-3627>
- Zaimes G.N., Pagonis G., Gkiatas G., Koutalakis P., Iakovoglou V., Xinogalos M. (2023) Monitoring Stream Bank Erosion Under Different Riparian Land Uses Utilizing Various Methodological Approaches. In Proceedings of the 9th International Conference on Water Resource and Environment WRE2023, 21-24 November 2023, Matsue, Japan. ISBN 978-981-97-0948-9 (eBook)
- Zaimes G.N, Iakovoglou V., Koutalakis P., Gkiatas G. (2023) Enhancing urban riparian area management by utilizing innovative technologies and nature-based solutions: the case study of Drama, Greece. In proceedings of the International Conference "Sustainable Legacy: Education, Research and Perspectives in Forestry and Urban Greenery" on the occasion of the 75th Anniversary of the University of Sarajevo - Faculty of Forestry, 1 December 2023 Sarajevo, Serbia.
- Zaimes G.N, Koutalakis P., Gkiatas G., Iakovoglou V., Marinescu M., Ristea O., Ghulijanyan A., Gevorgyan L., Kuharuk E., Trombitsky I., Tufekcioglu M., Yavuz M., Tufekcioglu A., Duman A. (2023) Protecting streams for a clean Black Sea by reducing sediment and litter pollution with joint innovative monitoring and control tools and nature-based practices – “BS963-Protect-Streams-4-Sea”. In proceedings of the “Protecting water resources with nature-based solutions - PS4S-2023” Conference, 24-26 May 2023, Drama, Greece.
- Apostolopoulos A., Koutalakis P., Iakovoglou V., Zaimes G.N. (2023) Hydrologic and hydraulic assessment of the Kanara’s torrent in Proti Serron, Greece. In proceedings of the “Protecting water resources with nature-based solutions - PS4S-2023” Conference, 24-26 May 2023, Drama, Greece.
- Corobov R., Koutalakis P., Syrodoev G., Trombitsky I. (2023) WEPP modeling of erosion and sediment in Moldova: Results for the Baltata River watershed. In proceedings of the “Protecting water resources with nature-based solutions - PS4S-2023” Conference, 24-26 May 2023, Drama, Greece.
- Koutalakis P., Krikopoulos K., Gkiatas G., Koutalakis A. (2023) High resolution photogrammetric products by unmanned aircraft systems (UAS) for post-disaster studies. Case study: a storm-tornado in Greece. In proceedings of the “Protecting water resources with nature-based solutions - PS4S-2023” Conference, 24-26 May 2023, Drama, Greece.
- Koutalakis P., Pagonis G. Zaimes G.N. (2023) A new streambank erosion index. Application in Aggitis Basin, Greece. In proceedings of the “Protecting water resources with nature-based solutions - PS4S-2023” Conference, 24-26 May 2023, Drama, Greece.

- Koutalakis P. (2023) Application of WEPP model to assess soil erosion in Drama, Greece. In proceedings of the "Protecting water resources with nature-based solutions - PS4S-2023" Conference, 24-26 May 2023, Drama, Greece.
- Koutalakis P. (2023) Using SWAT model to estimate the water yield in Aggitis River Basin, Greece. In proceedings of the "Protecting water resources with nature-based solutions - PS4S-2023" Conference, 24-26 May 2023, Drama, Greece.
- Koutalakis P. (2023) Evaluation of bus-stops according to the distance from the water resources.. In proceedings of the "Protecting water resources with nature-based solutions - PS4S-2023" Conference, 24-26 May 2023, Drama, Greece.
- Zaimes, G., Koutalakis, P., Gkiatas, G., Iakovoglou, V., Marinescu, M., Ristea, O., Corobov, R., Trombitsky, I., Tufekcioglu, M., Yavuz, M. ., Tufekcioglu, A., & Duman, A. (2023). Joint Innovative Monitoring to Reduce Nonpoint Source Pollutants and Litter in The Black Sea. Climate, Economics & Social Impact, 1(1), 1-6. <https://doi.org/10.56868//cesi.v1i1.3>
- Zaimes, G.; Koutalakis, P.; Iakovoglou, V.; Gkiatas, G. (2022) Targeted approaches to implement nature-based solutions in Aggitis Watershed, Greece with the use of new technologies. In proceedings of the 8th International Conference on Water Resource and Environment (WRE 2022), 1-4 November 2022, Xian, China (online).
- Zaimes, G.; Iakovoglou, V.; Koutalakis, P.; Gkiatas, G.; Marinescu, M.; Ristea, O.; Diaconu, D.C.; Ghulijanyan, A.; Gevorgyan, L.; Trombitsky, I.; Kuharuk, E.; Tufekcioglu, M.; Yavuz, M.; Tufekcioglu A. (2022) Targeted approaches of nature-based solutions to mitigate nonpoint source pollutants. In proceedings of the International Conference on Energy, Power, Environment and Computer Science (EPECS2022), 6-27 September 2022, Beijing, China.
- Koutalakis, P. and Zaimes, G.N. (2022) Remote sensing techniques to analyze vegetation changes and erosion potential in Thasos Island (Greece) after the wildfire of 2013. In proceedings of the International Conference "Transboundary Dniester River Basin Management and EU Integration - Step by Step", 27-28 October 2022, Chisinau, Moldova.
- Gkiatas, G.; Koutalakis, P.; Kasapidis, I.; Prazioutis, G.; Pagonis, G.; Iakovoglou, V.; Zaimes G.N. (2022) Utilizing remote sensing tools to assess the impacts of land use changes on hydrology and geomorphology of Kato Nevrokopi torrent. In proceedings of the International Conference "Transboundary Dniester River Basin Management and EU Integration - Step by Step", 27-28 October 2022, Chisinau, Moldova.
- Koutalakis, P.; Theodori, A.; Konstantinidou, Ch.; Toskas, I. (2022) Statistical Analysis of Road Traffic Accidents Involving Public Buses. In proceedings of the International Conferences "SafeThessaloniki 2022 – 9th International Conference on Civil Protection & New Technologies", 29 September-1 October, Thessaloniki, Greece.
- Koutalakis, P.; Gkiatas, G.; Kasapidis, I.; Prazioutis, G.; Pagonis, G.; Iakovoglou V.; Zaimes, G.N. (2022) Land use change impacts on the Kato Nevrokopi torrent in Greece. In proceedings of the International Conference "GREEN22 - Natural resources green technology & sustainable development", 14th-16th September 2022, Zagreb, Croatia.
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