

CURRICULUM VITAE

Name: Spyridon Dilalos

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Working position: Laboratory Teaching Staff, Scientific Topic “Geophysics – Space Applications in Geophysics”, Department of Geology and Geoenvironment, National and Kapodistrian University of Athens

Personal websites:

<https://scholar.google.gr/citations?user=0wVPNLcAAAAJ&hl=el&oi=ao>

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1. EDUCATION

- 2001:** High-school diploma.
- 2006:** Bachelor’s degree from Faculty of Geology and Geoenvironment (section of Geophysics-Geothermy), NKUA.
- 2009:** **Master of Science in «Geophysics-Seismology»**, Faculty of Geology and Geoenvironment, NKUA.
- 2018:** **Ph.D. Thesis in Applied Geophysics**, Faculty of Geology and Geoenvironment, NKUA.
- 01/20 - 08/21:** **Post-Doc Researcher (with scholarship)**, Faculty of Geology and Geoenvironment, NKUA.

2. FOREIGN LANGUAGES

- **English:** Excellent (Certificate of Proficiency in English, Michigan)
- **Italian:** Upper Intermediate (State Language Certificate, level B2)

3. DIGITAL SKILLS (SOFTWARE & SCIENTIFIC EQUIPMENT)

1. **Operating systems & basic software:** Windows, Microsoft Office (*Word, Excel, PowerPoint*), Internet
2. **Managing and illustration software of Geological & Geophysical data:** ArcGIS 10.3, Oasis Montaj, Surfer, Google Earth, Global Mapper, Rockworks, R2V
3. **Specialized geophysical software:** Oasis Montaj, Res2DInv, Zohdy, Winsev, Ip2Win, Invr, Ix1D, Ramag, IXVLF, KHHFILT, Inv2DVLF, ReflexW, ViewTEM
4. **Drawing & Topographic software:** CorelDRAW, TopCon Link, TopCon

5. **Scientific Equipment:** ABEM Terrameter SAS300/ ES-464 ERT System/LS, Βαρυτόμετρο LaCoste & Romberg 464, ABEM Wadi VLF System Mala GPR System, ABEM WalkTEM, EM-31, TopCon dGPS
6. **Robotics/Automation:** Arduino, TinkerCad, Arduino IDE
7. **Websites:** WordPress, Search Engine Optimization (SEO).

4. SCIENTIFIC TRAINING

- i. **March 2008:** 3-day seminar of basic education of ENVI 4.4 satellite image' processing software.
- ii. **17-18/6/2008:** Workshop in Engineering and Environmental Geophysics, National Technical University of Athens (*in collaboration with EAGE*), Athens.
- iii. **14/09/2014:** Time-Lapse ERT Monitoring Workshop (*EAGE - Near Surface Geoscience 2014*), Athens.
- iv. **29-30/4/2021:** Interactive Online Short Course on The Use of Surface Waves for Near Surface Velocity Model Building (EAGE)
- v. **12/10/2021:** IP and applications in mining and hydrogeology. Airborne IP and new trends on Airborne Potential methods for mining (Online, Balkan Geophysical Society Congress 2021)
- vi. **14/9/2023:** Webinar "*Drone Based Magnetism and Electromagnetic Measurements for Mineral Exploration: A Few Case Studies*". SEG Europe RAC.
- vii. **21/7/2024:** Online course "*EET13: Velocities, imaging and waveform inversion*" by Jones Ian. EAGE
- viii. **12/3/2025:** Webinar "*Drone EM – Some directions for the future*" by Jojannes Stoll. SEG Europe Regional Advisory Committee.
- ix. **7/4/2025:** SEG Near-Surface Geophysics Students Open-Source Software Webinar on Modelling Ground Penetrating Radar with gprMax.
- x. **21/10/2025:** SEG Webinar "*Unearthing instability: How geophysics reveal landslide secrets*" by Uhlemann Sebastian.

5. SCHOLARSHIPS

State Scholarships Foundation (IKY) Scholarship for Post-Doc research: 1/1/2020 - 31/12/2021

6. PREVIOUS WORK EXPERIENCE

A. Scientific – Academic

1. **2005 – 2007:** «*Environmental Investigation of Coastal wetlands by combined Geophysical and Geological data supported by GIS*». Ministry of National Education and Religion Affairs (Pythagoras II), Scientific Coordinator: Papadopoulos T., Professor.
2. **September 2007 - August 2008:** «Post-graduate program Prevention and management of Natural disasters». Ministry of National Education and Religion Affairs (ESPA), Scientific Coordinator: Papadopoulos T., Professor.
3. **i) July - August 2007, ii) September 2008 - April 2009, iii) April - August 2011:** «*Hydrogeological investigations in Chios Island, with the contribution of geophysical*». Municipality of Chios Isl., Scientific Coordinator: Papadopoulos T., Professor.
4. **May 2009 – April 2010:** «*Geophysical investigations in soil subsidence sites of Thessaly basin and Farsala area*». Earthquake Planning and Protection Organization, Scientific Coordinator: Papadopoulos T., Professor.
5. **October 2012 – November 2015:** «*Thales – An investigation of the impact of the climate change on river deltas. Case study: The delta of Pineios River (Thessaly, Greece) – DAPHNE*». Greek Ministry of Education and Religion Affairs ESPA 2007-2013, Scientific Coordinator: Poulos S., Assoc. Professor.
6. **i) August 2013 – September 2014, ii) July 2017 – November 2017:** «*ForOpenForests – Conservation of priority forests and forest openings in "Ethnikos Drymos Oitis" and "Oros Kallidromo" of Sterea Ellada - ForOpenForests*. LIFE11 NAT/GR/1014, European Commission, Scientific Coordinator: Georgiou K., Professor.
7. **15 October 2013 – 15 December 2013:** «*Geophysical study in the archaeological site Kyparissia (Trapezous)-Megalopolis and update the archaeo-spatial database "Kallisto"*». Hellenic Ministry of Culture and Sports, 39th Ephorate of Prehistorical and Classical Antiquities, Scientific Coordinator: Tsatsaris A., Assis. Professor.
8. **March 2015 – July 2015:** «*Geophysical study in the archaeological site 'Ampelaki-Klaraki' and 'Manari' (Arcadia) and update the archaeo-spatial database "Kallisto"*». Hellenic Ministry of Culture and Sports, 39th Ephorate of Prehistorical and Classical Antiquities, Scientific Coordinator: Tsatsaris A., Assis. Professor.
9. **February 2016 – May 2016:** «*Seismic Hazard mapping of Farsala and Almyros areas-Geophysical study*. EPA Thessaly-NKUA, Scientific Coordinator: Lekkas E., Professor.
10. **June 2020 – February 2021 & January-February 2022:** «*Telemachus - Innovative Seismic Risk Management Operational System of the Ionian Islands - Analysis and Risk Estimation*», Region of Ionian Islands, Scientific Coordinator: Voulgaris N., Professor.
11. **April-September 2021:** «*HELPOS-Hellenic System for Lithosphere Monitoring*», Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020). Scientific Coordinator: Papadimitriou P., Professor.

12. **January-15 April 2024:** «*Applied geophysical investigation for the confrontation of the surface instability at the local community of Stropones, municipality Dirfyon-Messapion*». Administrative region of Central Greece. Scientific Coordinator: Alexopoulos I., Ass. Professor
13. **14/7/2025-5/10/2025:** «*Geophysical survey to investigate the internal structure of the Agra Hydropower Plant's regulating dam in Edessa*». Contracting Authority: Public Power Corporation S.A., Scientific Supervisor: I. Alexopoulos, Professor, National and Kapodistrian University of Athens

B. Teaching Experience

B1. SELF-DIRECTED TEACHING

LABORATORY TEACHING STAFF

Undergraduate program

- «**Geophysics (Y4202)**»: Mandatory course, 4th semester, 2025/26 – present
- «**Applied Geophysics (Y7203)**»: Mandatory course, 7th semester, 2025/26 – present.
- «**Geological mapping (Y6203)**»: Mandatory direction course, 8th semester, 2025/26 - present.
- «**Engineering and Environmental Geophysics (E8201)**»: Elective course, 8th semester, 2025/26 – present.
- «**Applied Geophysics in Geology (E8215)**»: Elective course, 8th Semester, 2025/26 – present

Postgraduate program

- “**Applied Geophysics in Geology**” (GS-Y05), Graduate Program: Earth and Environmental Sciences - Specialization: Geophysics and Seismology, 1st Semester Mandatory Course, 2025/26–present
- “**Applied Geophysics in Natural Resources and Geoenvironmental Research**” (GS-E07), Graduate Program: Earth and Environmental Sciences - Specialization: Geophysics and Seismology, 2nd Semester Elective Course, 2025/26–present
- “**Applied Geophysics in Natural Resource and Geo-Environmental Research**” (PPB-Y06), MSc: Earth and Environmental Sciences - Specialization: Environmental Monitoring and Sustainability, 2nd Semester Mandatory Course, 2025/26–present
- “**Satellite Geodetic Techniques and Remote Sensing in Geophysics**” (GS-E08), MSc: Earth and Environmental Sciences – Specialization: Geophysics and Seismology, 2nd Semester Elective Course, 2025/26–present

- **“Archaeological Prospection” (AS1004):** Interdepartmental Master’s Program “MSC in Archaeological Science,” Departments of Archaeology & Geology and Geoenvironment, National and Kapodistrian University of Athens, 1st Semester Mandatory Course, 2025/26–present

ACADEMIC SCHOLARSHIP HOLDER

- «Applied Geophysics in Geology (E8215)»:** Elective course, 8th Semester. **Course Responsible** . Faculty of Geology and Geoenvironment, NKUA, 2020-2021.
 - 2020-2021 (14/4-30/9/2021)
 - 2021-2022 (15/2-30/9/2022)

B2. TEACHING ASSISTANT

Teaching Assistant in organizing and conducting laboratory exercises, exams and field trips at the Faculty of Geology and Geoenvironment, NKUA, as:

- Post-graduate student (2006-2009) and Ph.D. Student (2009-2012), **with hourly wage.**
- Ph.D. Student (2012-2018), *without hourly wage*
- Post-Doc researcher (2018-2021)
- Scientific researcher (2021-2025)

The **courses** I have participated in are the following:

Undergraduate program

- **«Geophysics (Y20/Y0118)»:** Mandatory course, 4th semester, 2006 – 2014.
- **«Geophysics (Y4202)»:** Mandatory course, 4th semester, 2014 – 2025
- **«Applied Geophysics (B0101)»:** Mandatory direction course, 6th semester, 2007 – 2012.
- **«Applied Geophysics (Y7203)»:** Mandatory course, 7th semester, 2014 – 2025.
- **«Geological mapping (Y6203)»:** Mandatory direction course, 8th semester, 2015 - 2025.
- **«Engineering and Environmental Geophysics (K0108)»:** Elective course, 8th semester, 2006 – 2025.
- **«Applied Geophysics in Geology (E8215)»:** Elective course, 8th Semester, 2023-2025.
- **«Dissertation (Y8201)»:** Mandatory direction course, 8th semester. Assisting in twenty-one (21) dissertations (*planning & acquisition of field geophysical measurements, processing, evaluation, interpretation and writing guidance*).

Postgraduate program

- **«Special chapters of Applied Geophysics»:** Post-graduate program “*Geophysics-Seismology*”, 2007 – 2012.

- **«Applied Geophysics»**: Post-graduate program “*Geophysics-Seismology*”, 2013- 2018.
- **«Acquisition and Analysis of Geophysical data»**: Post-graduate program “*Geophysics-Seismology*”, 2015- 2018
- **«Technical and Environmental Geophysics»**: Post-graduate program “*Earth sciences & Environment*”, 2015-2018
- **«Geologically Applied Geophysics (EGG-Y03)»**: Post-graduate program “*Earth sciences & Environment*”, 2018-today
- **«Methods of environmental research and Environmental studies/Environmental Geophysics»**: Post-graduate program “*Applied Environmental Geology*”, 2007 – 2015.
- **«Research and monitoring methods of environmental parameters – Application of space technology in prevention and management of natural disasters»**: Post-graduate program “*Prevention and management of natural disasters*”, 2007 – 2015.
- **«Post-graduate thesis»** 2006 - present. Assisting in ten (10) post-graduate theses (*planning & acquisition of field geophysical measurements, processing, evaluation, interpretation and writing guidance*).

7. CONFERENCES

- ✓ 2nd Symposium of Geophysics and Seismology, 31 October – 2 November 2002, Athens.
- ✓ 1st Panhellenic Conference of Geology students, Faculty of Geology-Geoenvironment, NKUA, 17-18 December 2004, Athens, Greece.
- ✓ One-day conference of Natural disasters of Geotechnical Chamber of Greece, University of Athens, 9 March 2005, Athens, Greece.
- ✓ 1st Panhellenic Conference of Natural disasters management, 08-10 April 2005, Karditsa, Greece.
- ✓ 7th Panhellenic Hydrogeological Conference, 5-6 October 2005, Athens, Greece.
- ✓ 11th International Conference of Geological Society of Greece, 24-26 May 2007, Athens, Greece.
- ✓ 8th Panhellenic Geographical Conference of Hellenic Geographical Society, 4-7 October 2007, Athens, Greece.
- ✓ 8th International Hydrogeological Conference of Greece & 3rd Workshop on fissured rocks hydrology, 2008, Athens, Greece.
- ✓ Conference «*10 years from Athens earthquake, experience and lessons*», Organized by University of Athens and Geodynamic Institute, 3-4 December 2009, Athens, Greece.
- ✓ 12th International Conference of Geological Society of Greece, May 2010, Patra, Greece.
- ✓ One-day conference «*Renewable raw materials, Mineral resources, Water-Environment and Civilization*», 18 May 2011, Athens, Greece.
- ✓ 9th International Hydrogeological Conference of Greece & 4th MEM Workshop on the Hydrology of Fissured Rocks, 5-8 October 2011, Kalavryta, Greece.

- ✓ Student Lecturer Tour EAGE, “*Basin and Petroleum Systems Modelling: Technology and Applications for Petroleum Exploration Risk and Resource Assessments*” by Dr. B. Wyrgala (Schlumberger), 27 March 2013, Athens, Greece.
- ✓ One-day conference “*Raw Materials University Day: Future, Needs and Opportunities*”, European Commission – NTUA – UoA, Athens Megaron Conference Hall, 19 June 2014, Greece.
- ✓ Near Surface Geoscience 2014: a) 20th European Meeting of Environmental and Engineering Geophysics (EAGE), b) 1st Applied Shallow Marine Geophysics Conference, c) 1st International EuroGPR School, 15-17 September 2014, Athens, Greece.
- ✓ 10th International Conference of Hellenic Geographical Society, 22-24 October 2014, Thessaloniki, Greece.
- ✓ 15th International Conference of Geological Society of Greece, 22-24 Μαΐου 2019, Athens, Greece.
- ✓ Near Surface Geoscience Conference 2019: a) 25th European Meeting of Environmental and Engineering Geophysics, b) 1st Conference on Geophysics for Geothermal-Energy Utilization and Renewable-Energy Storage, c) 1st Conference on Geophysics for Infrastructure Planning Monitoring and BIM, d) 10th International Workshop on Advanced Ground Penetrating Radar, (EAGE), 8-12 September 2019, The Hague (Netherlands).
- ✓ 11th Congress of the Balkan Geophysical Society, 10-14 October 2021, Virtual Edition
- ✓ «Mining Exploration Stories: The Role of Applied Geosciences and Geophysics», 13 Μαρτίου 2026, online, EAGE Local Chapter Greece Geophysical Society, 10-14 October 2021, Virtual Edition

8. PUBLICATIONS

A. Theses

1. «*The application of geophysical techniques in geological and environmental investigation of coastal waterlands (Korissia lagoon, Corfu Isl.)*». Graduate Thesis. Supervisor: Alexopoulos Ioannis, Lecturer, 2006, NKUA – Faculty of Geology and Geoenvironment.
2. «*Exploration of hydrogeological and environmental conditions with geophysical techniques, at selected sites in Chios island (Greece)*». Master Thesis. Supervisor: Papadopoulos Taxiarchis, Professor, 2009, NKUA – Faculty of Geology and Geoenvironment.
3. «*Application of geophysical technique to the investigation of tectonic structures in urban and suburban environments. A case study in Athens basin*». Ph.D. Thesis. Supervisor: Alexopoulos Ioannis, Assoc. Professor, 2018, NKUA – Faculty of Geology and Geoenvironment.

B. Publications in international and national scientific journals

1. Alexopoulos J.D., Tomara V., Vassilakis Em., Papadopoulos T.D., Dassenakis M., Poulos S., Voulgaris N., **Dilalos S.**, Ghionis G., Goumas G., Pirlis E., 2007. A contribution to environmental Research of The Korissia Coastal Wetland (Corfu Isl., Greece), With the Application of Combined Geological and Geophysical Methods Supported by Geographic Information Systems. *Bulletin of Geological Society of Greece*, 40(4), 1892-1903. <http://dx.doi.org/10.12681/bgsg.17187>
2. Alexopoulos J.D., **Dilalos S.**, 2010. Geophysical research for geological structure determination in the region of South Mesogheia (Attica). *Bulletin of the Geological Society of Greece*, 43(4), 1898-1906. <http://dx.doi.org/10.12681/bgsg.11381>
3. Alexopoulos J., Vassilakis Em., **Dilalos S.**, 2013. Combined geophysical investigations for detailed groundwater flow modeling in tectonically deformed fractured rocks. *Annals of Geophysics*, 56(6), S0669, 7p. <https://doi.org/10.4401/ag-6236>
4. Fountoulis I., Vassilakis Em., Mavroulis S., Alexopoulos J., **Dilalos S.**, Erkeki A., 2015. Synergy of tectonic geomorphology, applied geophysics and remote sensing techniques reveals new data for active extensional tectonism in NW Peloponnese (Greece). *Geomorphology*, 237, 52-64. <https://doi.org/10.1016/j.geomorph.2014.11.016>
5. Lazogiannis K., Poulos S., Giannouli D.H., Sifnioti D.E., Tsanakas K., Tsoutsia A., **Dilalos S.**, Gkionis, E. Vassilakis, S. Petrakis, D. Tarasi, G. Terezakis., 2015. Morphological changes along deltaic coastline of pinios river (Thessaly). *Geographies*, 26, 51-58
6. **Dilalos S.**, Alexopoulos J.D., 2017. Indications of correlation between gravity measurements and isoseismal maps. A case study of Athens basin (Greece). *Journal of Applied Geophysics*, 140, 62-74. <http://dx.doi.org/10.1016/j.jappgeo.2017.03.012>.
7. **Dilalos S.**, Alexopoulos J.D., Tsatsaris A., 2018. Calculation of Building Correction for urban gravity surveys. A case study of Athens metropolis (Greece). *Journal of Applied Geophysics*. 159(C), 540-552. <https://doi.org/10.1016/j.jappgeo.2018.09.036>.
8. **Dilalos S.**, Alexopoulos J.D., Lozios S., 2019. New insights on Athens basin (Greece) subsurface geological and tectonic structure, derived from urban gravity measurements. *Journal of Applied Geophysics*. 167(C), 73-105. <https://doi.org/10.1016/j.jappgeo.2019.04.024>
9. Vasilatos Ch., Anastasatou M., Alexopoulos J., Vassilakis Em., **Dilalos S.**, Antonopoulou S., Petrakis S., Delipetrou P., Georghiou K., Stamatakis M., 2019. The geo-environmental status of the European Union Priority Habitat Type “Mediterranean Temporary Ponds” in Mt. Oiti, Greece. *Water*, 11(8), 1627, 23p., <https://doi.org/10.3390/w11081627>
10. Papadopoulos T.D., Alexopoulos J.D., **Dilalos S.**, 2020. Combined geoelectrical and geoelectromagnetic survey for contributing to local hydrogeological regime – The case study of Delfini basin (Chios isl. – Greece). *Geology and Geophysics of Russian South (Geologiya I Geofizika Yuga Rossii)*. 10 (1), 68-80. Doi: 10.23671/VNC.2020.1.59066.

11. **Dilalos S.**, Alexopoulos J.D., 2020. The contribution of an urban gravity survey to the determinable perspective of Athens city (Greece) underground structure. *SN Applied Sciences*, 2, 1797. <https://doi.org/10.1007/s42452-020-03466-8>
12. Sakkas V., Kapetanidis V., Kaviris G., Spingos I., Mavroulis S., Diakakis M., Alexopoulos J.D., Kazantzidou-Firtinidou D., Kassaras I., **Dilalos S.**, Vassilakis E., Kotsi E., Tselentis G., Lekkas E., Voulgaris N., 2022. Seismological and Ground Deformation Study of the Ionian Islands (W. Greece) during 2014–2018, a Period of Intense Seismic Activity. *Applied Sciences*. 12(5):2331. <https://doi.org/10.3390/app12052331>
13. **Dilalos S.**, Alexopoulos J. D., Vassilakis E., Poulos S.E., 2022. Investigation of the structural control of a deltaic valley with geophysical methods. The case study of Pineios river delta (Thessaly, Greece). *Journal of Applied Geophysics*, 104652. <https://doi.org/10.1016/j.jappgeo.2022.104652>
14. Alexopoulos JD, Voulgaris N, **Dilalos S**, Gkosios V, Giannopoulos I-K, Mitsika GS, Vassilakis E, Sakkas V, Kaviris G., 2022. Near-Surface Geophysical Characterization of Lithologies in Corfu and Lefkada Towns (Ionian Islands, Greece). *Geosciences*, 12(12), 446. <https://doi.org/10.3390/geosciences12120446>
15. Mitsika G.S., Alexopoulos J.D., Vassilakis Em., **Dilalos S.**, Poulos S.E., 2023. Investigation of the physical-geographical characteristics of river delta with geophysical and satellite data. The case study of Pineios River, Greece. *MethodsX*, 10, 102033. <https://doi.org/10.1016/j.mex.2023.102033>
16. Alexopoulos JD, **Dilalos S**, Voulgaris N, Gkosios V, Giannopoulos I-K, Kapetanidis V, Kaviris G., 2023. The Contribution of Near-Surface Geophysics for the Site Characterization of Seismological Stations. *Applied Sciences*. 13(8), 4932. <https://doi.org/10.3390/app13084932>
17. **Dilalos S.** & Alexopoulos J.D., 2023. Regional Gravity Model of Greece Based on Satellite, Marine and Terrestrial Data. *Pure and Applied Geophysics*, 180, 2807-2826. <https://doi.org/10.1007/s00024-023-03285-z>
18. Alexopoulos J.D., **Dilalos S.**, Giannopoulos I.-K., Filis C., Vassilakis Em., Voulgaris N., 2023. The Combination of Updated Geotechnical, Seismotectonic and Isoseismal Maps of the Ionian Islands (Greece). *Geosciences*, 13(7), 218. <https://doi.org/10.3390/geosciences13070218>
19. Alexopoulos J.D., Voulgaris N., **Dilalos S.**, Mitsika G., Giannopoulos I.K., Gkosios V., Galanidou N., 2023. A geophysical insight of the lithostratigraphic subsurface of Rodafnidia area (Lesbos Isl., Greece). *AIMS Geosciences*, 2023, 9(4), 769-782. Doi: 10.3934/geosci.2023041
20. Gkosios V., Alexopoulos J.D., Soukis K., Giannopoulos I.-K., **Dilalos S.**, Michelioudakis D., Voulgaris N., Spicopoulos T., 2024. Application of Experimental Configurations of Seismic and Electric Tomographic Techniques to the Investigation of Complex Geological Structures. *Geosciences*. 14(10):258. <https://doi.org/10.3390/geosciences14100258>
21. Alexopoulos, J. D., **Dilalos, S.**, Poulos, S. E., Giannopoulos, I. K., Gkosios, V., 2024. Geophysical investigation of the ground fissures and ground subsidence near Karla lake

- (Eastern Thessaly basin, Greece). *Physics and Chemistry of the Earth, Parts A/B/C*, 103764. <https://doi.org/10.1016/j.pce.2024.103764>
22. Alexopoulos, J. D., Poulos, S. E., Giannopoulos, I. K., Gkosios, V., **Dilalos, S.**, Ghionis, G., 2025. Geophysical insight on the formation of a barrier-beach-dune system: The case of the central sector of the Kyparissiakos Gulf coastal zone (Western Greece). *Physics and Chemistry of the Earth, Parts A/B/C*, 103912. <https://doi.org/10.1016/j.pce.2025.103912>
 23. Alexopoulos, J.D., Giannopoulos, I.K., Gkosios, V., **Dilalos, S.**, Voulgaris, N., Poulos, S.E., 2025. Investigating a Large-Scale Creeping Landmass Using Remote Sensing and Geophysical Techniques—The Case of Stropones, Evia, Greece. *Geosciences*, 15(8), 282. <https://doi.org/10.3390/geosciences15080282>
 24. Alexopoulos, J. D., Gkosios, V., Giannopoulos, I. K., **Dilalos, S.**, Eleftheriou, A., Malamis, S., 2025. Integrated Geophysical Techniques to Investigate Water Resources in Self-Sustained Carbon-Farming Agroforestry. *Geosciences*, 15(8), 317. <https://doi.org/10.3390/geosciences15080317>

Γ. Publications in books/books chapters

1. Alexopoulos J.D., **Dilalos S.**, Vassilakis E., 2011. Adumbration of Amvrakia’s spring water pathways, based on detailed geophysical data (Kastraki - Meteora). In: *Lambrakis N., Stournaras G., Katsanou K.* (eds.), *Advances in the Research of Aquatic Environment. Environmental Earth Sciences*. Springer, Berlin, Heidelberg, 2, 105-112, https://doi.org/10.1007/978-3-642-24076-8_13

Δ. Publications in international scientific conferences

1. Alexopoulos J.D., Vassilakis Em., **Dilalos S.**, Papadopoulos T., 2008. Contribution of geophysical approach for the definition of subsurface flow paths at coastal wetlands. *8th International Hydrogeological Congress of Greece & 3rd MEM Workshop on fissured rocks Hydrology*, II, 421-430, Athens, Greece.
2. Papadopoulos T.D., Alexopoulos J.D., **Dilalos S.**, Pippidis M.J, 2008. Resistivity and VLF measurements for spring mechanism determination at NE Chios Isl. *8th International Hydrogeological Congress of Greece & 3rd MEM Workshop on fissured rocks Hydrology*, I, 421-430, Athens, Greece.
3. Alexopoulos J.D, **Dilalos S.**, Poulos S., Ghionis G., Petrakis S., Giannouli D. and Michelioudakis D., 2013. High resolution geophysical techniques for an insight to the formation of the dune field of the central Kyparissiakos Gulf, (Greece). *40th CIESM Congress*, p.88, 28 Oct-1 Nov 2013, Marseille, France. (Abstract)
4. Alexopoulos J., Vassilakis Em., **Dilalos S.**, Pantelis Ch., Papadopoulos T., 2013. Identification of buried active structures with preliminary geophysical and morphotectonic analysis, at eastern Thessaly basin, Greece. *4th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology* (Eds. Grützner C., Rudersdorf A., Pérez-López R., Reicherter K.), 9-14 October 2013, Aachen, Germany.

5. Alexopoulos J., Vassilakis Em., **Dilalos S.**, Zaloumi E., 2013. Quantification of human impact on natural evolution processes at a coastal zone, adjacent to an active fault. *Proceedings of the 13th International Conference of Environmental Science and Technology*, 8p., 5-7 September 2013, Athens, Greece.
6. Alexopoulos J.D., **Dilalos S.**, Poulos S.E., Ghionis G., Mavroulis S., 2014. Application of Geoelectrical Techniques in the Investigation of a Coastal Sand Dune Field. In: *Near Surface Geoscience 2014-20th European Meeting of Environmental and Engineering Geophysics*, 5p, <https://doi.org/10.3997/2214-4609.20142025>
7. Alexopoulos J.D., **Dilalos S.**, Tsatsaris A., Mavroulis S., 2014. ERT and VLF Measurements Contributing to the Extended Revelation of the Ancient Town of Trapezous (Peloponnesus, Greece). In: *Near Surface Geoscience 2014-20th European Meeting of Environmental and Engineering Geophysics*, 5p, <https://doi.org/10.3997/2214-4609.20141974>
8. Alexopoulos J.D., **Dilalos S.**, Vassilakis E., Michelioudakis D., Mavroulis S., Farangitakis P., 2014. A Geophysical Insight for the Occurrence of Mediterranean Temporary Ponds on Mts. Oiti and Kallidromo (Greece). In: *Near Surface Geoscience 2014-20th European Meeting of Environmental and Engineering Geophysics*, 5p, <https://doi.org/10.3997/2214-4609.20142091>
9. Alexopoulos J.D., **Dilalos S.**, Vassilakis Em., Michelioudakis D., Mavroulis S., Poulos S., 2014. Preliminary evaluation of geophysical data and geological elements in the deltaic plain of Pineios river (Thessaly). *Proceedings of the 10th International Congress of the Hellenic Geographical Society*, 1724-1731, 22-24 October 2014, Thessaloniki, Greece.
10. Alexopoulos J.D., Matiatos I., **Dilalos S.**, Vassilakis Em., Panagopoulos A., Gkionis G., Poulos S., 2014. Investigation of the Pineios Delta (Thessaly) shallow aquifer development, combining geophysical and hydrogeological data. *Proceedings of the 10th International Congress of the Hellenic Geographical Society*, 1130-1139, 22-24 October 2014, Thessaloniki, Greece.
11. Vassilakis Em., Mavroulis S., Alexopoulos J.D., **Dilalos S.**, 2014. The morphotectonic evolution of the deltaic area of Pineios river (Thessaly). *Proceedings of the 10th International Congress of the Hellenic Geographical Society*, 1671-1684, 22-24 October 2014, Thessaloniki, Greece.
12. Lazogiannis K., Poulos S., Giannouli D.H, Sifnioti D.E., Tsanakas K., Tsoutsia A., **Dilalos S.**, Gkionis G., Petrakis S., 2014. Study of morfodynamic processes of Pinios Delta coastline (Thessaly). *Proceedings of the 10th International Congress of the Hellenic Geographical Society*, 1744-1755, 22-24 October 2014, Thessaloniki, Greece.
13. Alexopoulos J.D., **Dilalos S.**, Mitsika G.S, 2017. Preliminary results of the application of Transient Electromagnetic Method in the area of Karla lake (East Thessaly basin, Greece). *Proceedings of 11th International Hydrogeological Congress*, 2, 103-112, 4-6 October 2017, Athens, Greece.
14. Mavroulis S., **Dilalos S.**, Alexopoulos I., Vassilakis E., Lekkas E., 2018. Multidisciplinary analysis including neotectonic mapping, morphotectonic indices, applied geophysics and

- remote sensing techniques for studying recently recognized active faults in Northwestern Peloponnese (Greece). *2nd Scientific Meeting of the Tectonics Committee of the Geological Society of Greece*. 13 June 2018, Patras, Greece. (Extended Abstract)
15. Alexopoulos J.D., **Dilalos S.**, Mitsika G.S., Kranis H., Lekkas E., 2019. The Contribution of Geophysical Survey to Seismic Hazard Mapping at Farsala basin (Greece). *Bulletin of the Geological Society of Greece*, Special Publication No 7, 571-572, GSG2019-056. *15th International Conference Geological Society of Greece*, 22-24 May 2019, Athens, Greece. (Extended Abstract)
 16. Alexopoulos J.D., **Dilalos S.**, Mitsika G.S., 2019. Coastal Geoelectrical Survey at the Ancient Harbor of Lechaion (Greece). *Bulletin of the Geological Society of Greece*, Special Publication No 7, 481-482, GSG2019-057. *15th International Conference Geological Society of Greece*, 22-24 May 2019, Athens, Greece. (Extended Abstract)
 17. **Dilalos, S.**, Alexopoulos, J.D., 2019. Urban Gravity Measurements for the Subsurface Investigation of Athens Basin (Greece). *Bulletin of the Geological Society of Greece*, Special Publication No 7, 211-212, GSG2019-093. *15th International Conference Geological Society of Greece* ς, 22-24 May 2019, Athens, Greece. (Extended Abstract)
 18. Mitsika G.S., **Dilalos S.**, Nastos P.T., Alexopoulos J.D., Delipetrou P., Georghiou K., 2019. High Altitude Meteorological Observations in Central Greece. *Bulletin of the Geological Society of Greece*, Special Publication No 7, 827-828, GSG2019-078. *15th International Conference Geological Society of Greece*, 22-24 May 2019, Athens, Greece. (Extended Abstract)
 19. Souglakos N., Alexopoulos J.D., Voulgaris N., **Dilalos S.**, Mitsika G.S., Petrakis M., Vavouranakis G., Valavanis P., Papadatos Y., 2019. A geophysical approach to the archaeological excavation of Plasi Marathon (Attika, Greece). *Bulletin of the Geological Society of Greece*, Special Publication No 7, 508-509, GSG2019-189. *15th International Conference Geological Society of Greece*, 22-24 May 2019, Athens, Greece. (Extended Abstract)
 20. **Dilalos S.**, Alexopoulos J.D., 2019. Quantitative subsurface information of Athens basin (Greece) derived from urban gravity measurements. In: *Near Surface Geoscience 2019- 1st Conference on Geophysics for Infrastructure Planning Monitoring and BIM*, We_INFRA_P23, 5p. <https://doi.org/10.3997/2214-4609.201902560>
 21. **Dilalos S.**, Alexopoulos J.D., Lozios S., 2019. The contribution of urban gravity survey to the subsurface geological structure of the Athens basin (Greece). In: *Near Surface Geoscience 2019- 25th European Meeting of Environmental and Engineering Geophysics*, We_25_P17, 5p. <https://doi.org/10.3997/2214-4609.201902472>
 22. Alexopoulos J.D., **Dilalos S.**, Mitsika G.S., Poulos S.E., 2019. Mapping of deltaic aquifers with the combined application of DC and TEM soundings. In: *Near Surface Geoscience 2019- 25th European Meeting of Environmental and Engineering Geophysics*, We_25_P13, 5p. <https://doi.org/10.3997/2214-4609.201902468>
 23. Alexopoulos J.D., **Dilalos S.**, Mitsika G.S., Vassilakis Em., Poulos S.E., 2019. A geophysical approach to the phenomenon of ground fissures at the East Thessaly basin (Greece). In:

- Near Surface Geoscience 2019- 25th European Meeting of Environmental and Engineering Geophysics*, Mo_25_P14, 5p. <https://doi.org/10.3997/2214-4609.201902379>
24. Alexopoulos J.D., Voulgaris N., **Dilalos S.**, Souglakos N., Mitsika G.S., Papadatos Y., 2019. Combined GPR and ERT survey at the Marathon (Plasi) archaeological excavation site. In: *Near Surface Geoscience 2019- 25th European Meeting of Environmental and Engineering Geophysics*, Tu_25_P18, 5p. <https://doi.org/10.3997/2214-4609.201902419>
 25. **Dilalos S.** & Alexopoulos J.D., 2021. Some new insights on the correlation of isoseismal maps with terrestrial and satellite gravity data. 11th Congress of the Balkan Geophysical Society. 1-5. <https://doi.org/10.3997/2214-4609.202149BGS17>
 26. Iliopoulos G., Alexopoulos J., Papadopoulou P., Zelilidis A., **Dilalos S.**, Voulgaris N., Biggin A., Arnold L.J., Taffin N., Galanidou N., 2022. The Acheulean site of Rodafnidia: geology, stratigraphy and chronology. In: *Aegean Acheulean at the Eurasian crossroads Hominin settlement in Eurasia and Africa*, 25-29 June 2022, Lesbos, Greece.
 27. Giannopoulos I.K., Alexopoulos J.D., **Dilalos S.**, Gkosios V., Mitsika G.S., Stamatakis M., Voulgaris N., 2022. The geophysical identification of lateritic bauxite formation at Mandra area, Attiki (Greece). *Bulletin of the Geological Society of Greece*, Special Publication No 10, GSG2022-026. 16th International Congress of the Geological Society of Greece, 17-19 October 2022, Patras, Greece
 28. Mitsika G.S., Alexopoulos J.D., Giannopoulos I.K., Gkosios V., **Dilalos S.**, Filis C., Vassilakis Em., Kaviris G., Sakkas V., Voulgaris N., 2022. Preliminary results of near-surface geophysical survey in Lefkada town (Greece). *Bulletin of the Geological Society of Greece*, Special Publication No 10, GSG2022-031. 16th International Congress of the Geological Society of Greece, 17-19 October 2022, Patras, Greece
 29. Gkosios V., Alexopoulos J.D., Giannopoulos I.K., Mitsika G.S., **Dilalos S.**, Barbaresos I., Voulgaris N., 2022. Determination of the subsurface geological regime and geotechnical characteristics at the area of Goudi (Athens, Greece) derived from geophysical measurements. *Bulletin of the Geological Society of Greece*, Special Publication GSG2022-062. 16th International Congress of the Geological Society of Greece, 17-19 October 2022, Patras, Greece
 30. Sakkas V., Kaviris G., Kapetanidis V., Alexopoulos J., Spingos I., Kassaras I., **Dilalos S.**, Mavroulis S., Diakakis M., Kazantzidou-Firtinidou D., Vassilakis E., Kotsi E., Lekkas E., Voulgaris N., 2022. Ground Deformation Study of the Ionian Islands (W. Greece) Based on Continuous GNSS Measurements. *Bulletin of the Geological Society of Greece*, Special Publication No 10, GSG2022-215. 16th International Congress of the Geological Society of Greece, 17-19 October 2022, Patras, Greece
 31. Kapetanidis V., Kaviris G., Spingos I., Kassaras I., Sakkas V., Kazantzidou-Firtinidou D., Mavroulis S., Diakakis M., Alexopoulos J.D., **Dilalos S.**, Vassilakis E., Kotsi E., Tselentis G.-A., Lekkas E., Voulgaris N., 2022. The evolution of recent seismicity in the Ionian Islands (W. Greece) with implications on seismic hazard assessment. *Bulletin of the Geological*

- Society of Greece*, Special Publication No 10, GSG2022-109. 16th International Congress of the Geological Society of Greece, 17-19 October 2022, Patras, Greece
32. Gkosios V., Alexopoulos J.D., **Dilalos S.**, Giannopoulos I.K., Mitsika G.S., Barbaresos I., Voulgaris N., 2023. Assessment of near-surface geophysical measurements for geotechnical purposes at the area of Goudi (Athens, Greece). In: Near Surface Geoscience 2023 - 29th European Meeting of Environmental and Engineering. Geophysics. 3-7 September 2023, Edinburg, UK. <https://doi.org/10.3997/2214-4609.202320044>
 33. Giannopoulos I.K., Alexopoulos J.D., Mitsika G.S., Konsolaki A., **Dilalos S.**, Vassilakis E., Voulgaris N., 2023. A preliminary geophysical investigation regarding the possible extension of Alistrati cave in Serres Greece. In: Near Surface Geoscience 2023 - 29th European Meeting of Environmental and Engineering. Geophysics. 3-7 September 2023, Edinburg, UK. <https://doi.org/10.3997/2214-4609.202320045>

E. Publications in PanHellenic and international conferences without peer-review process

1. Antoniou V., Vassilakis Emm., Alexopoulos J.D., Georgiou K., Delipetrou P., Stamatakis M., Vasilatos Ch., **Dilalos S.**, Mavroulis S., 2016. Dissemination of scientific data through Story Maps and WebGIS: The case of Kallidromo Mt. seasonal ponds protected area. *14th Meeting of Greek GIS Users*, 19-20 May 2016, Athens, Greece.
2. Alexopoulos J.D., **Dilalos S.**, Mitsika G., 2018. Geophysical research and hydrogeological characteristics of Pineios River delta basin and the Karla lake greater area. *International Conference Pinios River: Source of life and growth in Thessaly*. 2-3 Νοεμβρίου 2018, Λάρισα.
3. Alexopoulos J.D., Voulgaris N., Souglakos N., Dilalos S., Mitsika G.S., 2019. The geophysical research of the archaeological area of Plasi Marathon. *12th Archaeological Symposium*, 28-29 March 2019, Athens, Greece. (*Abstract*)

9. PARTICIPATION IN FIELD MEASUREMENTS & PROCESSING

1. **2003-2004:** «*Application of modern geophysical techniques (seismic reflection, seismic tomography, electrical resistivity tomography) to the investigation of complex tectonic structure of central Peloponnese and Attica*». SARG-NKUA, Scientific Coordinator: Lekkas Sp., Professor NKUA.
2. **July-August 2005:** «*Geophysical research (geolectrical measurements) at the greater area of Koropi for the determination of geological and environmental conditions*». Scientific Coordinator: Alexopoulos J.D., Lecturer NKUA.
3. **October - December 2005:** «*Tectonic structure of central-western Attica (Greece), based on geophysical investigations*». Earthquake Planning and Protection Organization, Scientific Coordinator: Papadopoulos T., Professor NKUA.

4. **July 2006:** «*Seismic Crosshole measurements in known geological environments*». Scientific Coordinator: Papadopoulos T., Professor NKUA.
5. **2006 – 2010:** «*Development of modern geophysical techniques in the investigation of geo-environmental and geotechnical problems*», SARG-NKUA, Scientific Coordinator: Alexopoulos J.D., Assis. Professor NKUA.
6. **2011 - 2012:** «*Intertemporal monitoring of surface changes at active faults with terrestrial LiDaR and geophysical measurements*». Scientific Coordinator: Alexopoulos J.D., Assis. Professor NKUA.
7. **2011 – 2013:** «*Coastal geo-environment and climate change (emphasizing on extreme weather phenomena)*», SARG-NKUA, Scientific Coordinator: Poulos S., Assoc. professor NKUA.
8. **2013-2014:** «*Application of geophysical methods and techniques to the investigation of shallow geological structures for geotechnical interest*», Scientific Coordinator: Alexopoulos J.D., Assis. Professor NKUA.
9. **September – October 2014:** «*Ancient Methone Archaeology Project – Geoelectrical research*», Scientific Coordinator: Dr. John Papadopoulos, Professor UCLA
10. **November – December 2014:** «*Lechaion Harbour Project – Geoelectrical research*», Scientific Coordinator: Dr. Bjørn Lovén, co-director, Scientific Coordinator, SAXO-Institute, University of Copenhagen
11. **September 2016:** «*Geophysical study in the archaeological site ‘Abdera’ (Xanthe)*», Φορέας Ανάθεσης: Ephorate of Antiquities of Xanthe, Scientific Coordinator: Alexopoulos J.D., Assis. Professor NKUA.
12. **2016 - today:** «*Development, application and publicity of geophysical environmental research*» SARG-NKUA, Scientific Coordinator: Alexopoulos J.D., Assis. Professor NKUA.
13. **June 2018 - today:** «*Geophysical soundings at the Archaeological university excavation site at Marathon Attica, location “Plasi”*», Scientific Coordinator: Alexopoulos J.D., Assis. Professor NKUA.
14. **October 2019:** «*Geoenviromental study of the coastal zone of the North coast of Kyparissiakos Golf for the investigation of the existence of old seashore at the “Sarakina” area of the Municipality of Pyrgos*», Scientific Coordinator: Poulos S., Professor NKUA.
15. **January 2021:** «*Surface geoseismal investigation at the location of the new building of the H.T.E faculty of University of Athens. (Panepistimiopolis, Zografou)*» Scientific Coordinator: Alexopoulos J.D., Assoc. Professor NKUA.
16. **February-May 2022:** «*Surface geophysical investigation at the location of the new building of research laboratories of the dental school of University of Athens (Goudi)*» Scientific Coordinator: Alexopoulos J.D., Assoc. Professor NKUA
17. **July 2023:** «*Development of experimental geoseismic and geoelectrical tomographic arrays for the investigation of complex geological structures*. Scientific Coordinator: Alexopoulos J.D., Assoc. Professor NKUA.

18. **March-April 2024:** Geophysical measurements at Mandra Attica for the investigation of the hydrogeological regime, in the context of the research program «*INNO4CFIS: Nature-based business model and emerging innovations to enhance*». Scientific Coordinator: Malalis S., Ass. Professor NTUA & Alexopoulos J.D., Assoc. Professor NKUA.
19. **July 2024:** Installation of meteorological stations and air photogrammetry and LIDAR in the context of the research «*A multiparametric approach to the development and evolution of a karstic geoenvironment: The case of Petroto karstic system (Northern Greece)*». Scientific Coordinator: Alexopoulos J.D., Professor NKUA
20. **February 2025:** Installation of new permanent GPS/GNSS receivers, re-visit of the non-permanent GPS/GNSS network and gravity measurements in Santorini, due to increased seismic activity. Principal Investigators: I. Alexopoulos, Professor, National and Kapodistrian University of Athens (NKUA), & V. Sakkas, Associate Professor, NKUA.
21. **April 2025:** Acquisition of geophysical gravity measurements, geological sample collection and geodetic measurements on the island of Santorini as part of the research program "*Support for the research teams of the Laboratories of Seismology, Geophysics, and Historical Geology and Biogeosciences, as well as the Interdisciplinary Committee for Risk and Crisis Management of the National and Kapodistrian University of Athens on the islands of Thira, Thirasia, and Ios.*" Principal Investigator: Antonarakou A., Professor

10. JOURNAL REVIEWER

- ✓ Acta Geophysica
- ✓ Journal of Physics & Chemistry of Earth
- ✓ Journal of Applied Geophysics
- ✓ Interpretation (SEG)
- ✓ Journal of Mountain Science
- ✓ Results in Earth Sciences
- ✓ Geocarto International
- ✓ Data in brief
- ✓ Journal of Engineering and Technological Sciences
- ✓ Water
- ✓ Geosciences
- ✓ GeoHazards
- ✓ Applied Sciences
- ✓ Remote Sensing
- ✓ ISPRS International Journal of Geo-Information
- ✓ Minerals
- ✓ Processes
- ✓ Computation