

Personal Info Georgios V. Kozyrakis

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PROFESSIONAL EXPERIENCE

- 10 / 2000 - today External Collaborator of Wind Energy and Power Plant Synthesis Laboratory (Hellenic Mediterranean University)
Wind Energy and Power Plant Synthesis Laboratory (Hellenic Mediterranean University), Heraklion, Crete, Hellas (www.hmu.gr)
1. Design of a small scale Flying Wing (3m span aircraft, without fuselage, to be used as a UAV). 2. Blade Design for Wind Turbines. 3. Air Flow Simulations. 4. Design of a marine meteorological station for collecting coastal wind data in the Aegean Sea. 5. Over 10 years of experience on Wind Data & Time series Analysis, Wind Resource Assessment Analysis, Wind Farm Design & Siting, including actual terrain evaluation and site visits for potential wind farm projects. 6. Experience on Meteorological Stations installation and supervision according to the ISO/IEC 17025 Standards.
- Company: University
- 2 / 2006 - today External Collaborator of the Institute of Applied and Computational Mathematics (IACM-FORTH, Crete)
Foundation for Research and Technology Institute of Applied and Computational Mathematics (IACM-FORTH, Crete)(<http://www.iacm.forth.gr/>).
- Participation in research projects funded by European and national resources in the fields of Coastal Management and Environmental Flow Simulation Methods.
- Company: Research Institute
- 2 / 2006 – 9 / 2016 External Collaborator of the Department of Marine Sciences, University of the Aegean
Department of Marine Sciences, University of the Aegean
(http://www.mar.aegean.gr/index_el.php).
- Simulation of coastal morphodynamic processes in Greece.
- Company: University
- 2 / 2008 - today Visiting Lecturer of the Hellenic Mediterranean University, Department of Mechanical Engineering for the following courses:
Hellenic Mediterranean University, Department of Mechanical Engineering (www.hmu.gr/mech/)
- Mechanical Engineering Design I (CAD)" (Lab. course): 2008 – 2017.
 - "Mechanical Engineering Design II (CAD)" (Lab. course): 2018.
 - "Wind Power Systems" (Lab. course): 2008 - 2011
 - "Fluid Mechanics" (Lab. course): 2011, 2012, 2013.
 - "Wind Power Systems", MSc in Energy Systems: 2014 - 2024
 - "Transport Phenomena", MSc in Energy Systems: 2015
 - WASP and Wind Farm Siting Seminars for the "Wind Power Systems" course: 2005, 2006, 2007.

Company: University

- 2018 – 2019 University Scholarship in the framework of “Acquisition of Academic Teaching Experience in Young Scientists PhD Holders 2018-2019 in TEI of Crete” ΟΠΣ (MIS) 5030369
Hellenic Mediterranean University, Department of Mechanical Engineering
(www.hmu.gr/mech/)
- “Wind Energy Systems”
 - “Machine Elements II” of the MSc Program in Energy Systems.
- 2019 – 2020 University Scholarship in the framework of “Acquisition of Academic Teaching Experience in Young Scientists PhD Holders 2019-2020 in the Hellenic Mediterranean University” ΟΠΣ (MIS) 5045874
Hellenic Mediterranean University, Department of Mechanical Engineering
(www.hmu.gr/mech/)
- “Wind Energy Systems”,
 - “Energy Management and use of RES in Buildings”
 - “Fluid Mechanics II”.
- 2021 – 2022 University Scholarship in the framework of “Acquisition of Academic Teaching Experience in Young Scientists PhD Holders 2021-2022 in the Hellenic Mediterranean University” ΟΠΣ (MIS) 5129682
Hellenic Mediterranean University, Department of Mechanical Engineering
(www.hmu.gr/mech/)
- “Informatics for Engineers”,
 - “Computational Fluid Mechanics”
 - “Wind Energy Systems”.
- 2022 - 2023 University Scholarship in the framework of “Acquisition of Academic Teaching Experience in Young Scientists PhD Holders 2022-2023 in the Hellenic Mediterranean University” ΟΠΣ (MIS) 5180691
Hellenic Mediterranean University, Department of Mechanical Engineering
(www.hmu.gr/mech/)
- “Informatics for Engineers”,
 - “Computational Fluid Mechanics”
 - “Turbine Engines Design”.
- 6 / 2008 – today Freelance Mechanical Engineer
Heraklion, Crete
- Heating and Air Conditioning Design for Buildings. Water Supply Network Design for Buildings. Fire Protection Design for Buildings. Pump Station Design for Water Supply Networks. Wind Resource Assessment and Turbine Siting for RES projects.

Company: Freelance Professional

RESEARCH ACTIVITIES

- 2011 – 2015 Institute of Applied and Computational Mathematics (IACM-FORTH, Crete):
Development of new methods for quantifying and addressing the impact of climate change on the eastern coasts of the island of Crete in the frame of the AKTIA Project 2011 – 2015, (code: 09ΣΥΝ-31-711) funded by the European Regional Development Fund and the Public Investment Fund through the Operational Programme “Competitiveness and Entrepreneurship” (EPAN-II).
- 2012 – 2015 The influence of climatic change on the coastal environment in relation with tourist planning, in the frame of the “CLIMATOURISM” Project for PostDoc fellowships 2010, Ministry of Education, 2012 - 2015.

- 2013 – 2015 Program Modules “Resilience of the coastal environment to climate change with applications in economic activities” and “Methods of utilizing information from citizens (crowd sourcing) for addressing natural disasters and management applications for civil protection”, in the frame of the PEFYKA project of the Action “Research Institutes Development Proposals – KRIPIS” of the National Strategic Reference Framework (NSRF) 2007 – 2013.
- 2016 DECATASTROPHIZE: “Use of SDSS and MCDA to Prepare for Disasters or Plan for Multiple Hazards”, Funding source: EUROPEAN COMMISSION DIRECTORATE-GENERAL HUMANITARIAN AID AND CIVIL PROTECTION - ECHO, Project number: ECHO/SUB/2015/713788/PREP, 2016-2018.
- 2016 – 2018 HERACLES: HERitage Resilience Against Events on Site, H2020-DRS-2015, Proposal No. 700395 <http://www.heracles-project.eu> 2016 – 2018.
- 2017 – 2018 ODYSSEA: OPERATING A NETWORK OF INTEGRATED OBSERVATORY SYSTEMS IN THE MEDITERRANEAN SEA, under grant agreement No 727277, funded by the EU H2020 frame, 2017 – 2020.
- 2018 – 2021 eWEP: Principal Investigator for “Spatio-temporal Modelling of the Significant Wave Height Variability for Estimating the Wave Energy Potential in the Mediterranean Sea, with field applications in the Aegean and Ionian Sea, (eWEP), funded by the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT), under grant agreement No [1237].
- 2022 - 2025 ILIAD: INTEGRATED Digital Framework FOR Comprehensive MARITIME DATA AND INFORMATION SERVICES, under grant agreement No 101037643, funded by European Commission’s Horizon 2020 Research and Innovation programme.

Department of Marine Sciences, University of the Aegean

- 2013 – 2015 Numerical Simulation of Transient Free Surface Flow Round an Oil-Spill Tracking Surface Drifter (funded through the operational programme “DIAVLOS”, in the frame of the 2.1 Meter of the Eastern Macedonia – Thrace Regional Operational Programme 2000-2006, of GSRT-Hellas.

Hellenic Mediterranean University (formerly ATEI of Crete)

- 2005 – 2007 Development of computational models for the analysis of engineering parts of measurement devices and the qualitative and behavioral evaluation of complex systems funded through the operational programme “COMPETITIVENESS” by the Greek Ministry of Development.

EDUCATION

- 07/2006 – 06/2016 Doctorate in Coastal Processes Simulation, School of the Environment, Department of Marine Sciences. Επίπεδο ΕΠΠ 8
Department of Marine Sciences, University of the Aegean.
Numerical Solution of Incompressible Flow Equations over irregular geometry, with Application to Coastal Hydrodynamics:
<https://www.didaktorika.gr/eadd/handle/10442/38378>
- 10/2003 – 09/2004 MSc in Theoretical & Applied Fluid Dynamics Επίπεδο ΕΠΠ 7
University of Manchester, Department of Mathematics
MSc thesis title: Numerical Calculation of Flow Over A Non-Spinning Disc-Wing.
- 10/1998 – 07/2002 Mechanical Engineer Επίπεδο ΕΠΠ 6
Graduate of Technological Educational Institute of Crete (TEI of Crete), School of Mechanical Engineering, Energy Sector

Technological Educational Institute of Crete (TEI of Crete), School of Mechanical Engineering

Diploma Thesis Title: Flow Simulation around a Flying Wing, using CFD Software ANSYS/FLOTRAN®.

PERSONAL SKILLS

Native language Hellenic

Other languages

	UNDERSTANDING		SPEECH		WRITING
	Oral	Reading	Communication	Oral expression	
English	C2 Experienced user	C2 Experienced user	C2 Experienced user	C2 Experienced user	C2 Experienced user
Master's Degree from the University of Manchester, Great Britain					
German	A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user
Grundstufe Goethe Institut					

Computer skills

SELF ASSESSMENT				
Data analysis	Communication	Create Content	Security	Problem solving
Experienced user	Experienced user	Experienced user	Experienced user	Experienced user

Experienced programmer: Fortran 95, C++, Mathematica, Matlab, Python, R, MySQL.
Experienced user: ArcGIS, Autocad, Ansys / Fluent, CFX.

Other skills Use of special software packages for the analysis and evaluation of engineering parts.
Digitizing and evaluation of Topographic Maps.

ADDITIONAL INFORMATION

Honours, Scholarships and Awards

- Principal Investigator for “Spatio-temporal Modelling of the Significant Wave Height Variability for Estimating the Wave Energy Potential in the Mediterranean Sea, with field applications in the Aegean and Ionian Sea, (eWEP), funded by the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT), under grant agreement No [1237].
- University Scholarship in the framework of “Acquisition of Academic Teaching Experience in Young Scientists PhD Holders 2018-2019 in TEI of Crete” ΟΠΣ (MIS) 5030369, Hellenic Mediterranean University, Department of Mechanical Engineering (www.hmu.gr/mech/), for the courses: “Wind Energy Systems”, “Machine Elements II” of the MSc Program in Energy Systems.
- University Scholarship in the framework of “Acquisition of Academic Teaching Experience in Young Scientists PhD Holders 2019-2020 in the Hellenic Mediterranean University” ΟΠΣ (MIS) 5045874, Hellenic Mediterranean University, Department of Mechanical Engineering (www.hmu.gr/mech/) for the courses: “Wind Energy Systems”, “Energy Management and use of RES in Buildings”, “Fluid Mechanics II”.
- University Scholarship in the framework of “Acquisition of Academic Teaching Experience in Young Scientists PhD Holders 2021-2022 in the Hellenic Mediterranean University” ΟΠΣ (MIS) 5129682, Hellenic Mediterranean University, Department of Mechanical Engineering (www.hmu.gr/mech/), for the courses: “Informatics for Engineers”, “Computational Fluid Mechanics”, “Wind Energy Systems”.
- University Scholarship in the framework of “Acquisition of Academic Teaching Experience in Young Scientists PhD Holders 2022-2023 in the Hellenic Mediterranean University” ΟΠΣ (MIS) 5180691, Hellenic Mediterranean University, Department of Mechanical Engineering (www.hmu.gr/mech/), for the courses: “Informatics for Engineers”, “Computational Fluid Mechanics”, “Turbine Engines Design”.

Reviewer in scientific journals

- Journal of Computational and Applied Mathematics, ISSN: 0377-0427, Elsevier.
- Hydrology, EISSN: 2306-5338, Published by MDPI.
- Technical Chamber of Greece, Technical Annals Open Access, peer-reviewed e-Journal, Online ISSN: 2945-0330.

Publications Multiple scientific publications in international journals, book chapters and international and Greek conferences. Co-author of more than 50 scientific and technical reports on research projects and technical studies.

Publications in international journals:

1. D. Al. Katsaprakakis, N. Papadakis, G. Kozirakis, Y. Minadakis, D. Christakis, K. Kondaxakis, **“Electricity supply on the island of Dia based on renewable energy sources (R.E.S.)”**, Applied Energy, Volume 86, Issue 4, April 2009, Pages 516-527.
2. Efstratios Georgakarakos, Christos V. Ioannou, Yannis Papaharilaou, Theodoros Kostas, Georgios V. Kozyrakis, Asterios N. Katsamouris, **“Studying the Expansion of Small Abdominal Aortic Aneurysms: Is There a Role for Peak Wall Stress?”**, International Angiology, (2011) 30 (5): 462-466.
3. N. A. Kampanis, A. I. Delis, G. Kozyrakis, D. C. Antonopoulou, **“A finite element discretization of the standard parabolic equation in generalized boundary fitting coordinates”**, Applied Numerical Mathematics (2013) 67 152–166.
4. Stylianos D Tsivgoulis, George N Tzagarakis, Kalliopi Alpantaki, Efstathios Chronopoulos, Pavlos G Katonis, Georgios V. Kozyrakis, Nikolaos A Kampanis, **“Influence of Body Features in Soccer Athlete’s Gait Variability”**, International Journal of Science and Engineering Technology, Vol. 1, No. 1; October 2015.
5. G.V. Kozyrakis, A.I. Delis, G. Alexandrakis, N.A. Kampanis, **“Numerical modeling of sediment transport applied to coastal morphodynamics”**, Applied Numerical Mathematics, 104 (2016) 30-46.
6. G. V. Kozyrakis, A. I. Delis, N. A. Kampanis, **“A finite difference solver for incompressible Navier-Stokes flows in complex domains”**, Applied Numerical Mathematics, 115 (2017) 275-298.
7. E.N. Mathioudakis, V.G. Mandikas, G.V. Kozyrakis, J.A. Ekaterinaris, N.A. Kampanis, **“Multigrid cell-centered techniques for high-order incompressible flow numerical solutions”**, Aerospace Science and Technology, 64 (2017) 85-101.
8. Christina Lorentzou, Giorgos Kouvarakis, Georgios V. Kozyrakis, Nikolaos A. Kampanis, Irene Trahanatzi, Othon Fraidakis, Nikolaos Tzanakis, Maria Kanakidou, Panagiotis Agouridakis, George Notas, **“Extreme Desert dust storms and COPD morbidity in the island of Crete”**, International Journal of Chronic Obstructive Pulmonary Disease, Vol. 14 (2019).
9. Antonios Parasyris, George Alexandrakis, Georgios V. Kozyrakis, Katerina Spanoudaki, Nikolaos A. Kampanis, **“Predicting Climatic Variables on Local Level with SARIMA, LSTM and Hybrid Techniques”**, Atmosphere 2022, 13, 878. <https://doi.org/10.3390/atmos13060878>.
10. Georgios V. Kozyrakis, Katerina Spanoudaki, Emmanouil A. Varouchakis, **“Long-term wave energy potential estimation in the Aegean and Ionian seas using dynamic downscaling and wave modelling techniques”**, Applied Ocean Research, 131 (2023), 103446. <https://doi.org/10.1016/j.apor.2022.103446>.
11. G.V. Kozyrakis, C. Condaxakis, A. Parasyris, N.A. Kampanis, **“Wind Resource Assessment over the Hellenic Seas Using Dynamical Downscaling Techniques and Meteorological Station Observations”**. Energies 2023, 16, 5965. <https://doi.org/10.3390/en16165965>.
12. Antonios Parasyris, Vassiliki Metheniti, George Alexandrakis, Georgios V. Kozyrakis and Nikolaos A. Kampanis, **“Data Assimilated Atmospheric Forecasts for Digital Twin of the Ocean Applications: A Case Study in the South Aegean, Greece”**, Algorithms 2024, 17, 586, <https://doi.org/10.3390/a17120586>.
13. Kozyrakis, G. V., Nikolaidis, A., Zodiatis, G., Galanis, G., Alexandrakis, G., Metheniti, V., Parasyris, A., & Kampanis, N. A. **“Wave climate conditions of the MUSAN underwater park in Ayia Napa with emphasis in extreme events”**. Technical Annals, 1(7) (2024). <https://doi.org/10.12681/ta.40032>

Publications

Publications in Books, Book Chapters:

14. Alexandrakis G., Kozyrakis G.V., Kampanis N. (2019) **“Interventions on Coastal Monuments Against Climatic Change”**. In: Moropoulou A., Korres M., Georgopoulos A., Spyrakos C., Mouzakis C. (eds) Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage. TMM_CH 2018. Communications in Computer and Information Science, vol 961. Springer, Cham.
15. G. Padeletti & HERACLES Consortium Staff, **“Heritage Resilience Against Climate Events on Site - HERACLES Project: Mission and Vision”**, Moropoulou, M. Korres, A. Georgopoulos, C. Spyrakos, Ch. Mouzakis (Eds.) Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage, Communications in Computer and Information Science 961, 2019, 361-375.
16. Alexandrakis, G.; Kozyrakis, G. V.; Paxakis, N.; Parasyris, A.; Vythoulka, A.; Kampanis, N. A.; Moropoulou, A., **“Analysis Between Cultural Heritage, Human Settlements and Landscapes Using Earth Observation and Archaeological Data”**, In: Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage, Cham, 2023//, 2023; Moropoulou, A.; Georgopoulos, A.; Ioannides, M.; Doulamis, A.; Lampropoulos, K.; Ronchi, A., Eds. Springer Nature Switzerland: Cham, 2023; pp 308-320.

Conferences

Publications in international and Greek conferences:

1. Christakis D., Condaxakis C., Sarantidis I., Papadakis N., Kozyrakis G., **"The influence of terrain's slope on wind-turbine's performance"**, Proceedings in EWEC 2006 - Design methodology (incl. external conditions) - European Wind Energy Conference and Exhibitions, Athens 2006.
2. Ζερβάκης Β., Κτιστάκης Μ., Νικολαΐδης Γ., Μοσχόπουλος Κ., Τράγου Ε., Βουσοδούκας Μ., Λελούδης Β., Κοζυράκης Γ., **"Ένας νέος drifter για την παρακολούθηση πετρελαιοκηλίδων"**, 9ο Πανελλήνιο Συμπόσιο Ωκεανογραφίας & Αλιείας, Πάτρα, Μάιος 2009, Πρακτικά, Τόμος Ι, σελίδες 535-539.
3. G. V. Kozyrakis, A. I. Delis, G. Alexandrakis, S. E. Poulos, N. A. Kampanis, **"Numerical modeling of sediment transport applied to coastal morphodynamics"**, Proceedings of the "Fifth Conference on Numerical Analysis (NumAn 2012) - Recent Approaches to Numerical Analysis: Theory, Methods and Applications", Ioannina, Greece, 5 - 8 September, 2012.
4. V.G. Mandikas, E.N. Mathioudakis, G.V. Kozyrakis, J.A. Ekaterinaris, N.A. Kampanis, **"A multigrid accelerated high-order pressure correction compact scheme for incompressible Navier-Stokes solvers"**, in: Proceedings of the 6th International Conference on Numerical Analysis (NumAn2014), 2014, pp. 198-203.
5. K. Alpantaki, C. Koutserimpas, A. Loutsidi, M. Liontiris, G. Kozyrakis, A. Kouroubali, N. Kampanis, G. Kontakis, **"Gender and age differences for fall related fractures among elderly"**, 15th International Falls and posture stability meeting , Manchester, September 2014.
6. E. Spanakis, G.V. Kozyrakis, K. Spanoudaki, G. Alexandrakis, K. Marias, N.A. Kampanis, **"Development of a novel information system utilizing crowd-sourcing methods for addressing and managing natural disasters"**, in: SafeRhodes 2014: National Conference "The use of new technologies in the prevention and management of natural disasters - Role of Civil Protection", Rhodes, Greece, 2014.
7. Stelios Petrakis, George Alexandrakis, George Kozyrakis, Eleni Hatziyanni, Nikolaos Kampanis, **"Integrated protecting plan for beach erosion. A case study in Plaka beach, E. Crete, Greece"**, Geophysical Research Abstracts Vol. 17, EGU2015-10102-1, 2015, EGU General Assembly 2015.
8. Georgios V. Kozyrakis, George Galanis, Katerina Spanoudaki, Nikolaos A. Kampanis, George Zodiatis and Elena Zhuk, **"Long - Term validation of forecasting results based on in situ ground measurements for contributing to the cal/val of the Mediterranean Monitoring and Forecasting Centre (Med-MFC)"** Geophysical Research Abstracts, Vol. 20, EGU2018-5341, 2018, EGU General Assembly 2018.
9. George Alexandrakis, Nikolaos Rempis, George Kozyrakis and Nikolaos Kampanis, **"Cultural heritage resilience and socioeconomics benefits"**, Geophysical Research Abstracts, Vol. 20, EGU2018-6683, 2018, EGU General Assembly 2018.
10. Katerina Spanoudaki, Nikolaos Kampanis, Nicolas Kalogerakis, George Zodiatis, and George Kozyrakis, **"Modelling of oil spills from deep sea releases"**, Geophysical Research Abstracts, Vol. 20, EGU2018-16401-1, 2018, EGU General Assembly 2018.

11. George Zodiatis, Hari Radhakrishnan, George N Galanis, Andreas Nikolaidis, George Emmanouil, Georgios Nikolaidis, Robin Lardner, Stavros Stylianou, Marios Nikolaidis, Sarantis S Sofianos, Vassilios Vervatis, George B Kallos, George Kozyrakis, Nikolaos Kampanis, **“Downscaling the Copernicus marine service in the Eastern Mediterranean”**, Advances in Coastal Ocean Modelling, Prediction and Ocean Observing system evaluation, Ocean Science meeting, AGU 2018.
12. Elena Zhuk, Georgios V. Kozyrakis, George Galanis, George Zodiatis, Katerina Spanoudaki, Nikos Kampanis and Dmitry Soloviev, **“On-line visualization of the cal/val indices for the Mediterranean Monitoring and Forecasting Centre”**, International Conference on Marine Data and Information Systems, IMDIS 2018.
13. George Notas, Christina Lorentzou, Giorgos Kouvarakis, Georgios V. Kozyrakis, Nikolaos A. Kampanis, Maria Kanakidou, Panagiotis Agouridakis, **“Effect of extreme desert dust particles outbreaks in the island of Crete on emergency department overloading”**, The European Emergency Medicine Congress, EUSEM 2018.
14. Alexandrakis G., Kozyrakis G.V., Kampanis N., **“Interventions on coastal monuments against climatic change”**, Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage (TTM_CH2018), 10-13 October, 2018.
15. Georgios V. Kozyrakis, Katerina Spanoudaki, Emmanouil A. Varouchakis, **“Wind – Wave Potential Estimation in the Southern Aegean Sea by means of Geostatistical and Numerical Methods”**, Geophysical Research Abstracts, Vol. 21, EGU2019-5758, 2019, EGU General Assembly 2019.
16. George Alexandrakis, George Kozyrakis, Katerina Spanoudaki, and Nikolaos Kampanis, **“Protection of coastal monuments against climatic change induced sea level rise and storm waves reckoning designing limitations”**, Geophysical Research Abstracts, Vol. 21, EGU2019-12404, 2019, EGU General Assembly 2019.
17. Katerina Spanoudaki, George Kozyrakis, and Nikolaos Kampanis, **“Long-term modelling of the Corsica oil spill fate and transport incorporating biodegradation kinetics”**, Geophysical Research Abstracts, Vol. 21, EGU2019-13632, 2019, EGU General Assembly 2019.
18. George Zodiatis, Robin Lardner, Katerina Spanoudaki, George Kozyrakis and Nikos Kampanis **“The dispersion of radioactive effluent in the Eastern Mediterranean from a hypothetical accidental spill from the nuclear power plant at Akkyu”**, Geophysical Research Abstracts, Vol. 21, EGU2019-18709, 2019, EGU General Assembly 2019.
19. Georgios V. Kozyrakis, Katerina Spanoudaki, Emmanouil A. Varouchakis, **“Dynamical Downscaling of Wind Surface Forcing with Application to the Wave Potential Estimation in the Aegean Sea”**, EGU2020-4058, <https://doi.org/10.5194/egusphere-egu2020-4058>, EGU General Assembly 2020.
20. Georgios V. Kozyrakis, Katerina Spanoudaki, Emmanouil A. Varouchakis, **“Spatio-temporal Modelling of Significant Wave Height and Wave Energy Potential Estimation in the Aegean and Ionian Sea”**, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-1838, <https://doi.org/10.5194/egusphere-egu21-1838>, 2021.
21. Georgios V. Kozyrakis, Constantinos Condaxakis, **“Wind Resource Potential assessment over complex terrain using ground meteorological station data and numerical modelling techniques: A test case for the island of Crete”**, 14th DEMSEE: Deregulated Electricity Market issues in South-Eastern Europe, June 20-21, 2022, Heraklion, Crete.
22. George Alexandrakis, Georgios V. Kozyrakis, Nikos Paxakis, Antonios Parasyris and Nikolaos Kampanis, **“Analysis between cultural heritage, human settlements and landscapes using earth observation and archaeological data”**, Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage (TTM_CH2023), 2023.

Conferences

23. Spanoudaki, K., Kozyrakis, G., Metheniti, V., Parasyris, A., and Kampanis, N.: **The Cretan Sea oil spill Digital Twin pilot for the ILIAD Digital Twin of the Ocean**, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-11561, 2023.
24. Zodiatis G, Lardner R, Nikolaidis A, Galanis G, Nikolaidis M, Sofianos S, Vervantis V, Zhuk E, Spanoudaki K, Kozyrakis G, Kampanis N, Soloviev D, Sylaios G, Coppini G, Lecci R, Liubartseva S, “**Examples why operational and down-streaming forecast is useful to the key end-users in the Med-Sea**”, First Workshop on Observing and Predicting the Global Coastal Ocean, CMCC, Coastal Predict, MAY 11-13, 2023 - LECCE, Italy.
25. Constantinos Condaxakis, Georgios V. Kozyrakis, “**Investigating the influence of complex terrain on low altitude wind distribution by ground meteorological station data correlation.**”, 15th DEMSEE: Deregulated Electricity Market issues in South-Eastern Europe, June 26-27, 2023, Heraklion, Crete.
26. Kozyrakis G., Parasyris A., Kampanis N. A., “**Validating improved Local Atmospheric and Wave Models Leveraging Downscaling and Observational data**”, Applied and Numerical Analysis for Partial Differential Equations, A conference in memoriam of Vassilios Dougalis, June 8-10, 2023 / Heraklion, Greece.
27. Spanoudaki, Katerina, Sabrina Outmani, Maria Luisa Quarta, Laura Vettorello, Noemi Fazzini, Georgios V. Kozyrakis, Vassiliki Metheniti, Marco Folegani, and Nikos Kampanis. “**A near-real time oil spill detection and forecasting system for Iliad Digital Twins of the Ocean**”. No. EGU24-20977. Copernicus Meetings, 2024.
28. Katerina Spanoudaki, Georgios V. Kozyrakis, Emmanouil A. Varouchakis, “**An integrated framework for estimating windwave energy potential by means of numerical and geostatistical methods**”, 15th International Conference on Geostatistics for Environmental Applications, Chania, Crete, Greece, June 19-21, 2024.