

CURRICULUM VITAE

PERSONAL INFO

Family name	Makris	Portrait photo
First name	Christos	
Father's name	Vassileios	
Sex	Male	
Birth date	26/02/1979	
Nationality	Greek	

AFFILIATION – CONTACT INFO

Academic Address 1 Laboratory of Hydraulics and Environmental Engineering (LHEE)
Sector of Hydraulic Works (SHW)
Department of Civil Engineering (DCE), Faculty of Engineering (FoE)
Democritus University of Thrace (DUTH)
University Campus – Kimmeria
GR-67100, Xanthi, Thrace
GREECE

Academic Address 2 Laboratory of Maritime Engineering and Maritime Works (LMEMW)
Division of Hydraulics and Environmental Engineering (DHEE)
School of Civil Engineering (SCE)
Aristotle University of Thessaloniki (AUTH)
University Campus – Hydraulics Building
GR-54124, Thessaloniki, Central Macedonia
GREECE

Phone (DUTH Office) (+30) 25410 79882

Phone (AUTH Office) (+30) 2310 995708

Phone (Mobile) (+30) 6974 978562

e-mail (acad. DUTH) cmakris@civil.duth.gr

e-mail (acad. AUTH) cmakris@civil.auth.gr

e-mail (personal) chrismakris@gmail.com

Skype [christos.makris](https://www.skype.com/people/christos.makris)

CURRENT EMPLOYMENT STATUS

Full-time	Assistant Professor of Computational Fluid Mechanics for Hydraulic Engineering at the DCE of DUTh
Part-time	Research Associate at the SCE of AUTH

CONCISE MEMO OF PROFESSIONAL EXPERIENCE

1997-2000	Official Organization of Betting in Hellenic Sport Events (OPAP)
2006	Research Assistant in NTUA (Program: NTUA subcontracted by LACECO Ltd., Project: Saraya Aqaba Lagoon)
2007-2013	Tutor and Teaching Assistant in the Civil Engineering Dept. of AUTH
2008	Research Assistant in AUTH (Program: EIPCOPII – ΕΠΕΑΕΚ II, Project: Integration of Investigation and Reformation of AUTH Studies)
2008	Research Assistant in AUTH (Program: INTERREG III-B – ARCHIMED, Project: CORI)
2010	Research Assistant in AUTH (Program: Research DG–GoEC, Project: SESAME)
2010-2012	Freelance Civil Engineering Consultant Professional
2012	Research Assistant in AUTH (Program: EIPCOPII – ΕΠΕΑΕΚ II, Project: Enhancement of Research, Educational, and Cultural Activities of Civil Engineering Dept. of AUTH)
2012-2015	Research Associate in AUTH (Program: THALES, Project: CCSEAWAVS)
2013-2015	Research Associate in AUTH (Program: COOPERATION 2011, Project: WaveForUs)
2015	Research Associate in AUTH/NTUA (Program: Education and Lifelong Learning 2007-2013, Project: KALLIPOS)
2016	Research Associate in AUTH (participation in writing and submission of proposals for Program: HORIZON 2020, Project: SIRoCCo; Program: INTERREG Balkan-Med, Project: FACTS)
2016-2017	Post-doctoral Research Fellow in AUTH (Program: IKY-SIEMENS excellence scholarships for post-doctoral research in Greece by the State Scholarships Foundation (SSF/IKY) academic year 2016-17, Project: Investigation of the impacts of intense storm surge events on the coastal zones of the Mediterranean Sea)

- 2017 Research Associate in AUTH (participation in writing and submission of proposals for Program: Academic Teaching Experience for Young Scientists and Doctors, Project: EDBM20; Program: EDBM34, Project: CCFLOOD-MedBlack; Program: ELIDEK, Projects: UPRIPORT-CC and BEACHPROTECT; Program: Research – Create – Innovate, Project: DeSTACCI; Program: ENI CBC BSB 2014-2020, Project: TIMMOD)
- 2017-2019 Research Associate in AUTH (Program: EYATH S.A. – AUTH Cooperation, Project: Monitoring of Water Quality in the Maritime Environment of the Thermaikos Gulf, Thessaloniki, Greece)
- 2018 University Fellow Scholar in AUTH (Program: Development of Human Resources, Education and Lifelong Learning - EDBM45, Project: Acquisition of academic teaching experience for new PhD scientists)
- 2018-2020 Research Associate in AUTH (Program: ERANETMED, Project: MEDAQCLIM)
- 2018-2022 Research Associate in AUTH (Program: Research–Create–Innovate, Project: ACCU-WAVES)
- 2020 Research Associate of Scientia Maris co. (Program: Research–Create–Innovate, Project: COAST-UP)
- 2020-2022 Research Associate in AUTH (Program: ENI-CBC JOP BSB2019, Project: TIMMOD)
- 2021-2023 Research Associate in AUTH (Program: Support to the Management Authority of Thermaikos Gulf Protected Areas for the implementation of interventions for the management, protection and promotion of the natural environment and biodiversity within its area of responsibility, Project: Mapping of pressures and estimation of external and internal loads of nutrients and organic material for the protection and management of the marine waters in Thermaikos Gulf)
- 2023 University Fellow Scholar in AUTH (Program: Development of Human Resources, Education and Lifelong Learning – EDBM191, Project: Acquisition of academic teaching experience for new PhD scientists)
- 2024-2026 Research Associate in AUTH (Program: Interreg EuroMED, Project: LocAll4Flood)
- 2024-... Assistant Professor in DUTH (Computational Fluid Mechanics for Hydraulic Engineering)

MEMBER OF SOCIETIES – INSTITUTIONS – CHAMBERS

- 2006 Member of Technical Chamber of Greece (TEE); Specialty: Civil Engineer; Registry Number: 107708, since 08/03/2006
- 2021 Member of International Association of Hydro-Environment Engineering and Research (IAHR); Member of Committees on: Coastal and Maritime Hydraulics, Flood Risk Management, Climate Change Adaptation, Fluid Mechanics, Hydraulic Structures, IAHR/IWA Joint Committee on Marine Outfall Systems, Water Resources Management, Oil Spill Modelling Working Group
- 2021 Member of the European Geosciences Union (EGU)
- 2021 Member of the Hellenic Hydrotechnical Association (HHA)
- 2024 Member of the HHA Administration Board

EDUCATION – PROFESSIONAL QUALIFICATIONS

- 2005 Diploma of the Civil Engineering Dept., Faculty of Engineering, AUTH with specialty (MEng) in Hydraulics and Environmental Engineering (grade: 7.03/10)
- 2007 MSc in Water Resources Engineering & Management of the Interdisciplinary Post-graduate Studies Program “Science and Technology of Water Resources” of NTUA with specialty on “Coastal Engineering and Coastal Zone Management” (grade: 8.25/10)
- 2014 Doctorate (PhD) Diploma of the post-graduate studies program of the Civil Engineering Dept. in AUTH, on the scientific field of Computational Fluid Dynamics for Coastal Flows and Wave-induced Coastal Processes with focus on Smoothed Particle Hydrodynamics (grade: Excellent)

LANGUAGE SKILLS

- | | | |
|---------|--|---|
| English | Fluent (Cambridge Proficiency Certificate) | Level: C2 (writing, reading, oral, listening) |
| German | Moderate (Goethe Zertifikat – ex-Grundstufe) | Level: B1 (writing, reading, oral, listening) |
| French | Novice (six years of high-school courses) | Level: A2 (reading, listening) A1 (oral) |

COMPUTING SKILLS AND TECHNICAL SOFTWARE*

* Grading order *novice* → *moderate* → *good* → *very good* → *excellent*

O/S	Microsoft Windows (excellent); GNU/Linux (moderate)
Office	MS-Office & OpenOffice (excellent); XLSTAT (moderate)
Scientific	FORTRAN 77 and Fortran 90/95 (very good); Fortran 2003 (good); Visual Basic for Applications (good); MATLAB (moderate); Python (moderate); R (moderate)
CFD/Engineer	HiReSS, WAVE-L, GreCSS/MeCSS, CoastFLOOD (excellent; developer), SPHysics, MIKE21 (suites PP, HD, BW, SW, NSW, PMS, EMS, FM, SW-FM), Plumes, Visual Plumes, CEM_PE (very good); CORMIX, ACES, CEDAS, NN EurOtop, EurOtop Calculation Tool (moderate); DualSPHysics, T_Tide, MACE, SWAN, WAVEWATCH-III, XBeach, SBEACH, FLUENT, FLOW3D, CRESS, GENESIS, Xtide, Telemac, TOMAWAC, LISFLOOD-FP (novice)
Oceanography	SeaBird Modules: SeaTerm, SeasaveV7, SBEDataProcessing, SeaSoftWaves (very good); Teledyne Modules: WinSC, WinADCP, WavesMon, BBTalk (good)
Graphs/Maps	Golden Software Surfer/Grapher, ParaView, GetData (very good); QGIS, Tecplot (novice)
CAD/Design	Inkscape (very good); AutoCAD, CorelDRAW, Blender (novice)

SCIENTIFIC THESES & DISSERTATIONS (Total: 4)

T) THESES & DISSERTATIONS (4)

- 1) **Makris, C.V. and Politis, A. (2005).** *Dispersion and Environmental Effects of a Thermal Plume in the Maritime Environment*, Civil Engineering Diploma Thesis (Supervisor: Prof. Y.N. Krestenitis), LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (*in Greek*) [URL](#)
- 2) **Makris, C.V. (2007).** *Wave Transmission over Submerged Breakwaters*, Master Diploma Thesis (Supervisor: Prof. C.D. Memos), IPSP, 'Science and Technology of Hydraulic Resources', Course Series C' – "Coastal Zone Management", NTUA, Athens, Greece. (*in Greek*) [doi:10.26240/heal.ntua.25391](#), [URL Citations: 4](#)
- 3) **Makris, C.V. (2014).** *Computational Simulation of Coastal Wave Processes with the use of Smoothed Particle Hydrodynamics (SPH) Method*, Doctoral Dissertation (Supervisors: Profs. Y.N. Krestenitis & C.D. Memos), LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (*in Greek*) [doi:10.26262/heal.auth.ir.134620](#), [GRI-2014-12638](#), [doi:10.12681/eadd/34666](#), [doi:10.13140/RG.2.2.17936.61445](#), [URL Citations: 1](#)
- 4) **Makris, C.V. (2017).** *Investigation of the impacts of intense storm surge events on the coastal zones of the Mediterranean Sea*, Post-doctoral Thesis (Supervisor: Y.N. Krestenitis), LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. IKY-SIEMENS Program of excellence scholarships for post-doctoral research in Greece 2016-2017 (Scientific Discipline: Infrastructure, Urban Development – Environment, Specialization: Infrastructure and Environmental Engineering), State Scholarships Foundation (SSF/IKY). (*in Greek*) [URL](#), [doi:10.13140/RG.2.2.35687.09125](#)

PUBLICATIONS (Total: 110)**

** CS = CiteScore, IF = Impact Factor

A) ARTICLES IN SCIENTIFIC JOURNALS (20)

- 1) Androulidakis, Y., Kombiadou, K., **Makris**, C., Baltikas, V. and Krestenitis, Y. (2015). Storm surges in the Mediterranean Sea: variability and trends under future climatic conditions. *Dynamics of Atmospheres and Oceans*, Elsevier, Vol. 71, pp. 56–82. [doi:10.1016/j.dynatmoce.2015.06.001](https://doi.org/10.1016/j.dynatmoce.2015.06.001)
CS: 3.10; IF: 1.70; h5-index: 18; median h5-index: 25; Citations: 135
- 2) **Makris**, C.V., Memos, C.D. and Krestenitis, Y.N. (2016). Numerical Modeling of Surf Zone Dynamics under Weak Plunging Breakers with SPH Method. *Ocean Modelling*, Elsevier, Vol. 98, pp. 12–35. [doi:10.1016/j.ocemod.2015.12.001](https://doi.org/10.1016/j.ocemod.2015.12.001)
CS: 5.80; IF: 3.20; h5-index: 32; median h5-index: 48; Citations: 45
- 3) **Makris**, C., Galiatsatou, P., Tolika, K., Anagnostopoulou, C., Kombiadou, K., Prinos, P., Velikou, K., Kapelonis, Z., Tragou, E., Androulidakis, Y., Athanassoulis, G., Vagenas, C., Tegoulas, I., Baltikas, V., Krestenitis, Y., Gerostathis, T., Belibassakis, K. and Rusu, E. (2016). Climate Change Effects on the Marine Characteristics of the Aegean and Ionian Seas. *Ocean Dynamics*, Springer, Vol. 66, Issue 12, pp. 1603–1635. [doi:10.1007/s10236-016-1008-1](https://doi.org/10.1007/s10236-016-1008-1)
CS: 4.00; IF: 2.30; h5-index: 24; median h5-index: 31; Citations: 72
- 4) **Makris**, C., Androulidakis, Y., Kombiadou, K., Baltikas, V. and Krestenitis, Y. (2017). The impact of climate change on the storm surges of the Greek seas. *Hydrotehnika: Journal of Fluid Engineering and Water Resources*, Hellenic Hydrotechnical Association (EYE), Vol. 26, pp. 67-80. (in Greek) [ISSN:1106-5419, 5282-15629-1-PB](https://doi.org/10.1016/j.5282-15629-1-PB)
Citations: 2
- 5) Galiatsatou, P., **Makris**, C., and Prinos, P. (2018). Optimized Reliability Based Upgrading of Rubble Mound Breakwaters in a Changing Climate. *Journal of Marine Science and Engineering*, In: Special Issue “Climate Change, Coasts and Coastal Risk”, 6(3): 92. [doi:10.3390/jmse6030092](https://doi.org/10.3390/jmse6030092)
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64; Citations: 37
- 6) Galiatsatou, P., **Makris**, C., Prinos, P., and Kokkinos D. (2019). Nonstationary joint probability analysis of extreme marine variables to assess design water levels at the shoreline in a changing climate. *Natural Hazards*, Springer. Vol. 98, Issue 3, pp. 1051–1089. [doi:10.1007/s11069-019-03645-w](https://doi.org/10.1007/s11069-019-03645-w)
CS: 6.20; IF: 3.70; h5-index: 63; median h5-index: 85; Citations: 27
- 7) **Makris** C., Androulidakis Y., Karambas T., Papadimitriou A., Metallinos A., Kontos Y., Baltikas V., Chondros M., Krestenitis Y., Tsoukala V., and Memos C. (2021). Integrated modelling of sea-state forecasts for safe navigation and operational management in ports: Application in the Mediterranean Sea. *Applied Mathematical Modelling*, Elsevier. 89(2), pp. 1206-1234. [doi:10.1016/j.apm.2020.08.015](https://doi.org/10.1016/j.apm.2020.08.015)
CS: 9.40; IF: 5.00; h5-index: 76; median h5-index: 99; Citations: 32
- 8) Skoulikaris Ch., **Makris** Ch., Katirtzidou M., Baltikas V., and Krestenitis Y. (2021). Assessing the vulnerability of a deltaic environment due to climate change impact on surface and coastal waters: the case of Nestos River (Greece). *Environmental Modeling & Assessment*, Springer, Vol. 26, pp. 459-486, [doi:10.1007/s10666-020-09746-2](https://doi.org/10.1007/s10666-020-09746-2)
CS: 3.60; IF: 2.40; h5-index: 22; median h5-index: 37; Citations: 32

- 9) Androulidakis Y., Kolovoyiannis V., **Makris C.**, Krestenitis Y., Baltikas V., Stefanidou N., Chatziantoniou A., Topouzelis K., and Moustaka-Gouni M. (2021). Effects of ocean circulation on the eutrophication of a Mediterranean gulf with river inlets: The Northern Thermaikos Gulf. *Continental Shelf Research*, Elsevier, Vol. 221, 104416. [doi:10.1016/j.csr.2021.104416](https://doi.org/10.1016/j.csr.2021.104416)
CS: 4.40; IF: 2.30; h5-index: 30; median h5-index: 36; Citations: 30
- 10) Galiatsatou, P., **Makris, C.**, Krestenitis, Y., and Prinos, P. (2021). Nonstationary Extreme Value Analysis of Nearshore Sea-State Parameters under the Effects of Climate Change: Application to the Greek Coastal Zone and Port Structures. *Journal of Marine Science and Engineering*, MDPI, 9(8), 817. [doi:10.3390/jmse9080817](https://doi.org/10.3390/jmse9080817)
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64; Citations: 18
- 11) **Makris, C.**, Tolika, K. Baltikas, V., Velikou, K., and Krestenitis, Y. (2023). The impact of climate change on the storm surges of the Mediterranean Sea: coastal sea level responses to deep depression atmospheric systems. *Ocean Modelling*, Elsevier, Vol. 181, 102149. [doi:10.1016/j.ocemod.2022.102149](https://doi.org/10.1016/j.ocemod.2022.102149)
CS: 5.80; IF: 3.20; h5-index: 32; median h5-index: 48; Citations: 30
- 12) Androulidakis, Y., **Makris, C.**, Mallios, Z., Pytharoulis, I., Baltikas, V. and Krestenitis, Y. (2023). Storm surges and coastal inundation during extreme events in the Mediterranean Sea: the IANOS Medicane. *Natural Hazards*, Springer, vol. 117, pp. 939-978. [doi:10.1007/s11069-023-05890-6](https://doi.org/10.1007/s11069-023-05890-6)
CS: 6.20; IF: 3.70; h5-index: 63; median h5-index: 85; Citations: 33
- 13) Katirtzidou, M., Skoulikaris, Ch., **Makris, C.**, Baltikas, V., Latinopoulos, D. and Krestenitis, Y. (2023). Modeling stakeholders' perceptions in participatory multi-risk assessment on a deltaic environment under climate change conditions. *Environmental Modeling & Assessment*, Springer, Vol. 28, pp. 367–388. [doi:10.1007/s10666-023-09890-5](https://doi.org/10.1007/s10666-023-09890-5)
CS: 3.60; IF: 2.40; h5-index: 22; median h5-index: 37; Citations: 11
- 14) **Makris C.**, Mallios Z., Androulidakis Y., and Krestenitis Y. (2023). CoastFLOOD: A High-Resolution Model for the Simulation of Coastal Inundation Due to Storm Surges, *Hydrology*, MDPI, 10(5), p. 103. [doi:10.3390/hydrology10050103](https://doi.org/10.3390/hydrology10050103)
CS: 4.10; IF: 3.20; h5-index: 32; median h5-index: 42; Citations: 14
- 15) Androulidakis Y., **Makris C.**, Mallios Z., and Krestenitis Y. (2023). Sea level variability and coastal inundation over the northeastern Mediterranean Sea. *Coastal Engineering Journal*, Taylor & Francis, 65(4), pp. 514-545. [doi:10.1080/21664250.2023.2246286](https://doi.org/10.1080/21664250.2023.2246286)
CS: 5.50; IF: 2.40; h5-index: 21; median h5-index: 37; Citations: 4
- 16) Androulidakis Y., **Makris C.**, Krestenitis Y., Kolovoyiannis V., Baltikas V., Mallios Z., Pytharoulis I., Topouzelis K., Spondylidis S., Tegoulis, I., Kontos Y. (2023). Hydrography of Northern Thermaikos Gulf based on an integrated observational-modeling approach. *Continental Shelf Research*, Elsevier, vol. 269, 105141. [doi:10.1016/j.csr.2023.105141](https://doi.org/10.1016/j.csr.2023.105141)
CS: 4.40; IF: 2.30; h5-index: 30; median h5-index: 36; Citations: 5
- 17) **Makris C.**, Papadimitriou A., Baltikas V., Spiliopoulos G., Kontos Y., Metallinos A., Androulidakis Y., Chondros M., Klonaris G., Malliouri D., Nagkoulis N., Zissis D., Tsoukala V., Karambas T., Memos C. (2024). Validation and Application of the Accu-Waves Operational Platform for Wave Forecasts at Ports. *Journal of Marine Science and Engineering*, MDPI, 12(2):220. [doi:10.3390/jmse12020220](https://doi.org/10.3390/jmse12020220)
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64; Citations: 2

- 18) Androulidakis Y., **Makris C.**, Kombiadou K., Krestenitis Y., Stefanidou N., Antoniadou C., Krasakopoulou E., Kalatzi M.I., Baltikas V., Moustaka-Gouni M., Chintiroglou C.C. (2024). Oceanographic research in Thermaikos Gulf: a review over five decades. *Journal of Marine Science and Engineering*, MDPI, 12(5), 795. doi.org/10.3390/jmse12050795
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64; Citations: 2
- 19) Androulidakis Y., Kolovoyiannis V., **Makris C.**, Krestenitis Y. (2024). Evidence of 2024 Summer as the Warmest During the Last Four Decades in the Aegean, Ionian, and Cretan Seas. *Journal of Marine Science and Engineering*, MDPI, 12(11):2020. <https://doi.org/10.3390/jmse12112020>
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64
- 20) Androulidakis Y., **Makris C.**, Kolovoyiannis V., Kombiadou K., Krestenitis Y., Pytharoulis I., Baltikas V., Mallios Z. (2024). An operational platform of met-ocean forecasts to support first-level response actions in Thermaikos Gulf (Greece). *Journal of Operational Oceanography*, Taylor & Francis. (Submitted, under review)
CS: 8.60; IF: 3.10; h5-index: 19; median h5-index: 29

B) BOOKS & BOOK CHAPTERS (3)

B.1) PEER-REVIEWED BOOKS (1)

- 1) Krestenitis, Y.N., Kombiadou, K.D., **Makris, C.V.**, Androulidakis, Y.S. and Karambas, T.V. (2015). *Coastal Engineering – Maritime Environmental Hydraulics*, Hellenic Academic Electronic Textbooks & Accessories, Association of Greek Academic Libraries, Kallipos Publications, NTUA, Athens, Greece. (in Greek) [ISBN:978-960-603-253-0](https://doi.org/10.1007/978-960-603-253-0)
Citations: 9

B.2) PEER-REVIEWED BOOK CHAPTERS (2)

- 2) **Makris, C.V.**, Krestenitis, Y.N. and Memos, C.D. (2010). SPH Numerical Simulation of Surf Zone Characteristics, In: *Environmental Hydraulics* (Eds: Christodoulou, G.C., Stamou, A.I.), CRC Press, Taylor & Francis Group, A Balkema Book, Two Volume Set: Proceedings of the 6th International Symposium on Environmental Hydraulics, Athens, Greece, 23-25 June 2010, Vol.1, Chapter 67, pp. 445–450. Print ISBN: 978-0-415-58475-3, eBook ISBN: [978-0-203-84123-5](https://doi.org/10.1201/b10553-71), [doi:10.1201/b10553-71](https://doi.org/10.1201/b10553-71)
Citations: 4
- 3) Krestenitis, Y., Pytharoulis, I., Karacostas, T., Androulidakis, Y., **Makris, C.**, Kombiadou, K., Tegoulis, I., Baltikas, V., Kotsopoulos, S. and Kartsios, S. (2017). Severe weather events and sea level variability over the Mediterranean Sea: the WaveForUs operational platform. In: *Perspectives of Atmospheric Sciences* (Eds: Karacostas, T., Bais, A., Nastos, P.T.), Springer Atmospheric Sciences, Springer International Publishing, COMECAP 2016 Proceedings, Pt.1: Meteorology, pp. 63-68. Print ISBN: 978-3-319-35094-3, Online ISBN: [978-3-319-35095-0](https://doi.org/10.1007/978-3-319-35095-0), [doi:10.1007/978-3-319-35095-0_9](https://doi.org/10.1007/978-3-319-35095-0_9)
Citations: 25

C) PUBLICATIONS IN THE PROCEEDINGS OF SCIENTIFIC CONFERENCES (71)

C.P) CONFERENCE PAPERS (52)

- 1) **Makris, C.V.** and Memos, C.D. (2007). Wave Transmission over Submerged Breakwaters: Performance of Formulae and Models, *Proc. 17th International Offshore (Ocean) and Polar*

- Engineering Conference*, International Society of Offshore and Polar Engineers (ISOPE), Lisbon, Portugal, 1-6 July 2007, pp. 2613-2620. [EID:2-s2.0-36448985995](#) (*incl. oral presentation*)
CS: 0.31; IF:0.37; h5-index: 15; median h5-index: 20; Citations: 25
- 2) **Makris**, C.V., Avgeris, I. and Memos, C.D. (2007). Hydraulic Behaviour of Submerged Breakwaters, *Proc. 4th Port Development and Coastal Environment Conference (PDCE)*, Black Sea Coastal Association, Varna, Bulgaria, 24-27 September 2007, pp. 269-278. [URL](#) (*incl. oral presentation*)
Citations: 4
 - 3) **Makris**, C.V. and Memos, C.D. (2008). Wave Transmission Through Submerged Breakwaters, *Proc. 4th Panhellenic Conference on Coastal Zone Management and Preservation (PCCZMP)*, Laboratory of Harbor Works, School of Civil Engineering, NTUA, Mytilene, Lesvos, Greece, 23-27 September 2008, pp. 247-256. [URL](#) (*in Greek; incl. oral presentation*)
 - 4) **Makris**, C.V. and Krestenitis, Y.N. (2009). Free Educational Software on Maritime Hydrodynamics, Coastal Engineering and Oceanography, *Proc. 9th Panhellenic Symposium of Oceanography and Fisheries (PSOF)*, Hellenic Center of Marine Research, Lab. Of Marine Geology and Physical Oceanography, Dept. of Geology, University of Patras, Patras, Greece, 13-16 May 2009, Vol.1, pp. 546-551. [URL](#) (*in Greek; incl. oral presentation*)
Citations: 2
 - 5) **Makris**, C.V., Memos, C.D. and Krestenitis, Y.N. (2009). Numerical Simulation of Near-Shore Wave Breaking using SPH Method, *Proc. of 4th International Short Conference on Applied Coastal Research (SCACR)*, IAHR, International Centre for Coastal Resources Research, Maritime Engineering Laboratory of UPC (LIM/UPC), Barcelona, Spain, 15-17 June 2009, pp. 241-252. [URL](#) (*incl. oral presentation*)
Citations: 6
 - 6) **Makris**, C.V., Krestenitis, Y.N. and Memos, C.D. (2010). SPHysics code validation against a near-shore wave breaking experiment, *Proc. of 5th International SPH European Research Interest Community Workshop (SPHERIC)*, European Research Community on Flow Turbulence and Combustion (ERCOFTAC), University of Manchester, Manchester, UK, 23-25 June 2010, pp. 245-252. [URL](#) (*incl. oral and poster presentation*)
Citations: 6
 - 7) **Makris**, C.V., Memos, C.D. and Krestenitis, Y.N. (2011). Modelling of breaking wave dynamics, surf zone turbulence and wave-induced mean flows with the SPH numerical method, *Proc. of 5th International Short Conference on Applied Coastal Research (SCACR)*, International Association of Hydraulic Engineering & Research (IAHR), Institute of Hydraulic Engineering and Water Resources Management of RWTH Aachen University, Aachen, Germany, 6-9 June 2011, pp. 507-514. [URL](#) (*incl. poster*)
Citations: 4
 - 8) **Makris**, C.V., Krestenitis, Y.N. and Memos, C.D. (2012). SPH modeling of plunging wave breaking, surf zone turbulence and wave-induced currents, *Proc. of 22nd International Offshore (Ocean) and Polar Engineering Conference*, International Society of Offshore and Polar Engineers (ISOPE), Rhodes, Greece, 17-22 June 2012, pp. 1204-1212. [EID:2-s2.0-84866133470](#) (*incl. oral presentation*)
CS: 0.31; IF:0.37; h5-index: 15; median h5-index: 19; Citations: 5

- 9) **Makris**, C.V. and Krestenitis, Y.N. (2012). Numerical Simulation of the Hydrodynamic Features of Near-Shore Surf Zone with SPH Method, *Proc. 2nd Common Conference of Hellenic Hydrotechnic Union (EYE) & Hellenic Commission on Water Resources Management (EEDYP): Integrated Water Resources Management towards Sustainable Development*, Dept. of Civil Engineering, Academic Network Hydrokritis, TGC, Patras, 11-13 October 2012, pp. 1070-1082. [URL](#) (in Greek; incl. oral presentation)
- 10) Krestenitis, Y.N., Androulidakis, Y., Kombiadou, K., **Makris**, C., Baltikas, V., Kalantzi, G. (2014). WaveForUs: Pilot Sea-State Forecasting System in the Thermaikos Gulf, *Proc. of 5th Environmental Conference of Macedonia (PESYMA)*, Thessaloniki, Greece, 14-16 March 2014. (in Greek) [URL](#)
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- 48) TIMMOD Team (2021). Deliverable D.T4.2.1 Draft Innovation Strategy to improve joint monitoring, data sharing and cross-border information exchange systems in compliance with MSFD and DCF (14/11/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 49) TIMMOD Team (2021). Deliverable D.T4.1.1 Technical Report -Study on transboundary coordination mechanisms, available organisational and human resources in the area, and their relevance to the planned technological upgrade. Identifying priority issues, set in accordance to the MSFD and DCF (14/01/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 50) TIMMOD Team (2022). Deliverable D.T4.3.1 Proceedings (from each partner country) of the National Validation Workshops (in electronic format) (14/02/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 51) TIMMOD Team (2022). Deliverable D.T4.4.1 Proceedings of the Strategy Validation Workshop (in electronic format) (14/05/2022).
- 52) TIMMOD Team (2022). Deliverable D.T4.4.2 Validated "Innovation Strategy" (14/05/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 53) TIMMOD Team (2022). Output Report T1.1. Raised awareness & improved regional cooperation of R&D organisations in technology innovation of marine monitoring for assessment of fish stock & non-fish resources, achieved by organization of 2 Thematic Trans-boundary Meetings (TTM 1&2).

- 54) TIMMOD Team (2022). Output Report T2.1. A set of 4 ICT monitoring data handling and numerical modelling tools, integrated in a Pilot Monitoring & Modelling Data Sharing Platform (MMDSP).
- 55) TIMMOD Team (2022). Output Report T3.1. Improved technological expertise and practical skills of research institutions in use of innovative tools for monitoring, modelling, and data acquisition, achieved by joint participation in a Pilot Demonstration Project (at 2 demo sites).
- 56) TIMMOD Team (2022). Output Report T3.2. Improved capacity of research institutions for cross-border compatible exchange of environmental monitoring data and information, resulting from 2 Thematic Transboundary Meetings for discussion of Pilot Demonstration Project results.
- 57) TIMMOD Team (2022). Output Report O.T4.1. A coherent Black Sea Strategy for advancement in technology innovation in R&D organisations and innovation agencies in the area of monitoring, modelling, and cross-border data exchange, validated at 5 National and one Regional Validation Workshops.
- 58) Γ.Ν. Κρεστενίτης, Ε. Νταρακάς, Ι. Ανδρουλιδάκης, Χ. **Μακρής**, Β. Τσιρίδης, Α. Στεφανίδου, Μ. Πεταλά, Χ. Αντωνιάδου, Β. Μπαλτίκας, Β. Κολοβογιάννης (2021). *Σταθμοί μέτρησης – πρόγραμμα μετρήσεων, Τεχνική Έκθεση – Παραδοτέο Π0, Έργο: Χαρτογράφηση πιέσεων και αποτίμηση εξωτερικών και εσωτερικών φορτίων θρεπτικών και οργανικού υλικού για την προστασία και διαχείριση του θαλάσσιου χώρου περιοχής αρμοδιότητας του ΦΔΠΠ Θερμαϊκού Κόλπου*. MIS 5045794 Ε.Π. Κεντρική Μακεδονία 2014-2020.
- 59) Γ.Ν. Κρεστενίτης, Ε. Νταρακάς, Ι. Ανδρουλιδάκης, Χ. **Μακρής**, Β. Τσιρίδης, Μ. Πεταλά, Χ. Αντωνιάδου, Β. Μπαλτίκας, Β. Κολοβογιάννης, Ζ. Καμπουράκη, Φ. Σακκαβέλη, Α. Στεφανίδου, Μ. Δερμετζιόγλου (2022). *Βιβλιογραφική ανασκόπηση - Αρχικά αποτελέσματα μετρήσεων - Μετεωρολογικά και ωκεανογραφικά στοιχεία, Τεχνική Έκθεση – Παραδοτέο Π1, Έργο: Χαρτογράφηση πιέσεων και αποτίμηση εξωτερικών και εσωτερικών φορτίων θρεπτικών και οργανικού υλικού για την προστασία και διαχείριση του θαλάσσιου χώρου περιοχής αρμοδιότητας του ΦΔΠΠ Θερμαϊκού Κόλπου*. MIS 5045794 Ε.Π. Κεντρική Μακεδονία 2014-2020.
- 60) Γ.Ν. Κρεστενίτης, Ε. Νταρακάς, Ι. Ανδρουλιδάκης, Χ. **Μακρής**, Β. Τσιρίδης, Μ. Πεταλά, Χ. Αντωνιάδου, Β. Μπαλτίκας, Β. Κολοβογιάννης, Ζ. Καμπουράκη, Φ. Σακκαβέλη, Α. Στεφανίδου, Μ. Δερμετζιόγλου (2023). *Τελική Τεχνική Έκθεση – Παραδοτέο Π2, Έργο: Χαρτογράφηση πιέσεων και αποτίμηση εξωτερικών και εσωτερικών φορτίων θρεπτικών και οργανικού υλικού για την προστασία και διαχείριση του θαλάσσιου χώρου περιοχής αρμοδιότητας του ΦΔΠΠ Θερμαϊκού Κόλπου*. MIS 5045794 Ε.Π. Κεντρική Μακεδονία 2014-2020.
- 61) LocAll4Flood Team (2024). Definition of the 4 topographical areas of the mediterranean most commonly affected by flash flood. Deliverable: D.1.1.1. Delivery: June 2024, Partner in charge: BETA (UVic-UCC), Partners involved: All. Distribution: Public.

RESEARCHER PERFORMANCE METRICS***

*** derived from Google Scholar, ResearchGate, Scopus, etc.

<i>h</i> -index:	max value <i>h</i> such that <i>h</i> publications have at least <i>h</i> citations
<i>h5</i> -index:	<i>h</i> -index for last 5 years for the journal/proceedings of each published paper
<i>i10</i> - and <i>i1</i> -index:	number of publications with at least 10 and 1 citations, respectively
C_{max} :	number of citations of the most cited publication
<i>RI Score</i> :	ResearchGate total research interest

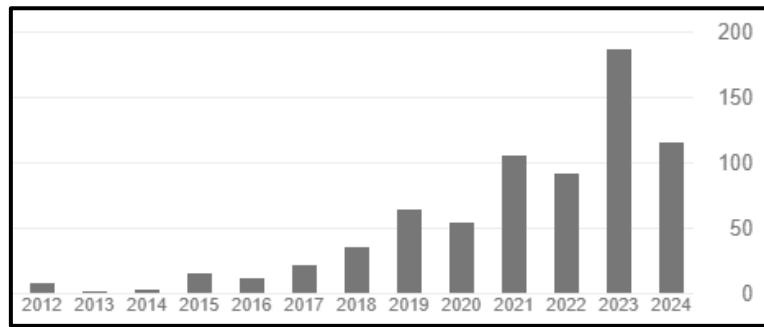
Impact	Total CS points: 94.44	Total IF points: 56.88
	Total <i>h5</i> -index points: 794	Total median <i>h5</i> -index points: 1071
	RI score: 991	

Citation Scores

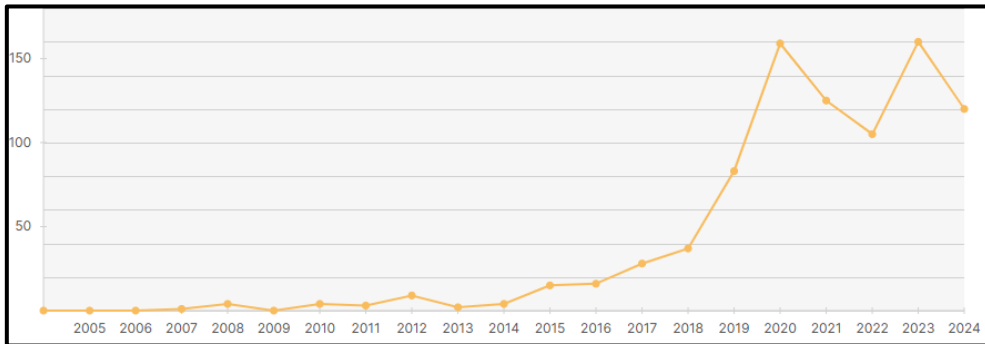
<i>Parameter</i>	<i>Measured</i>	<i>Google Scholar</i>	<i>ResearchGate</i>	<i>Scopus</i>
Citations	848	778	884	364
Heterocitations	466 (55%)	464 (59.7%)	417 (47.2%)	284 (78%)
<i>h</i> -index	15	15	15	11
<i>i10</i> -index	21	21	24	12
<i>i1</i> -index	76	65	71	22
C_{max}	135	135	128	89
Documents	114	133	133	25

Oral Presentations Total: **39** International: **24** National: **12** Invited Speeches: **3**

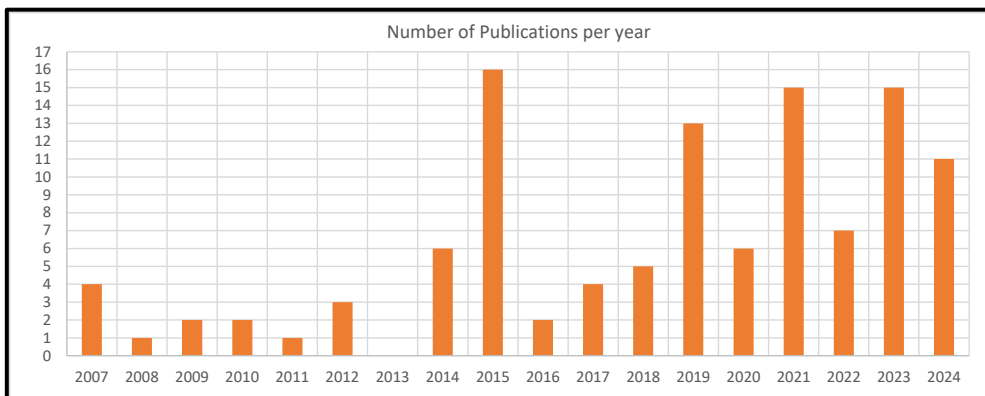
Aggregated Info on Scientific Publications					
Type of Publication	Total	1 st Author	2 nd Author	Other	Average Authors / Publication
Peer-reviewed Journal Articles	20	7/20	9/20	4/20	7.05
Peer-reviewed Books & Book Chapters	3	1/3	-	2/3	6.00
Peer-reviewed and Non-refereed Papers in Conference Proceedings	52	24/52	13/52	15/52	5.88
Conference Abstracts	19	8/19	4/19	7/19	6.21
Miscellaneous Publications	16	6/16	5/16	5/16	4.25
Theses / Dissertations	4	4/4	-	-	1.25
SUM OF PUBLICATIONS	114	50/114	31/114	33/114	5.11



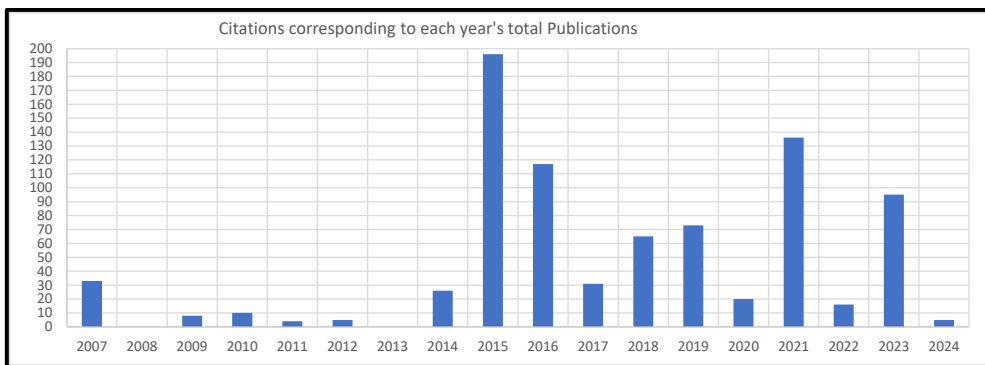
Citations per year based on Google Scholar database



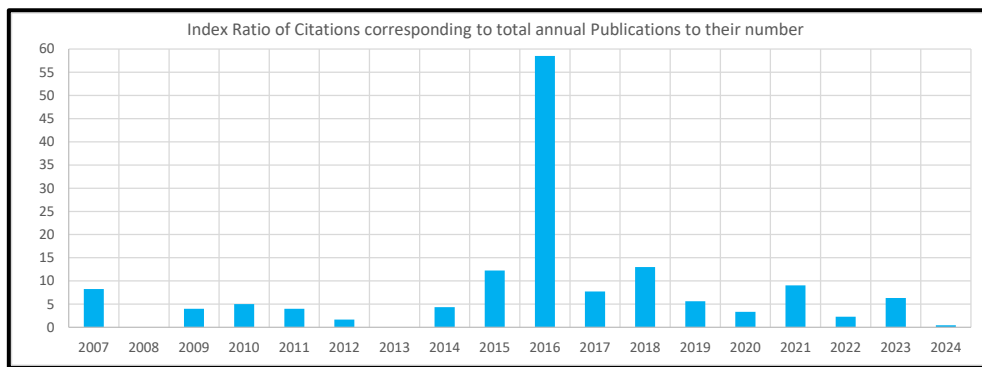
Citations per year based on ResearchGate database



Annual productivity of Publications



Productivity of Citations corresponding to each year's total amount of Publications



Citation/Productivity impact: ratio of Citations concerning the annually total Publications to each year's total Publications

Highlights

Citation of Article A.1.2 by Makris et al. (2016) in the seminal Academic Book "Sumer B.M. and Fuhrman D.R. (2020). *Turbulence in Coastal and Civil Engineering*. World Scientific. Advanced Series on Ocean Engineering, Vol. 51" [doi:10.1142/10829](https://doi.org/10.1142/10829), which cites only established mature papers in their discipline.

Inclusion of author C. Makris to the international "Citation Network by Author" in the meta-analysis of the bibliometric paper "Leal, K.B., Robaina, L.E.D.S. and De Lima, A.D.S., 2022. Coastal impacts of storm surges on a changing climate: a global bibliometric analysis. *Natural Hazards*, 114(2), pp.1455-1476." [doi:10.1007/s11069-022-05432-6](https://doi.org/10.1007/s11069-022-05432-6) about issues relevant to climate change and storm surges. Figure 8 presents the cluster analysis of the authors, for which at least 3 published papers were cited 4 times by other researchers.

Inclusion of Wave4Us operational forecast platform to the official Copernicus Marine Service use cases (19/11/2024): <https://marine.copernicus.eu/services/use-cases/operational-forecast-system-wave4us>

No. 3 in the international ranking order of cited researchers according to GoogleScholar database for the keyword/label: *port engineering*

No. 10 in the international ranking order of cited researchers according to GoogleScholar database for the keyword/label: *coastal flooding*

No. 34 in the international ranking order of cited researchers according to GoogleScholar database for the keyword/label: *storm surge*

No. 58 in the international ranking order of cited researchers according to GoogleScholar database for the keyword/label: *water waves*

REVIEWER FOR SCIENTIFIC JOURNALS & CONFERENCES (Total: 37; Reviews: 73)

- Journals
- 1) Ocean Modelling, Elsevier (x5)
CS: 6.40; IF: 3.29; h5-index: 34; median h5: 46
<https://www.journals.elsevier.com/ocean-modelling>
 - 2) Ocean Dynamics, Springer (x1)
CS: 3.70; IF: 2.20; h5-index: 26; median h5: 33
<https://link.springer.com/journal/10236>
 - 3) Ocean Engineering, Elsevier (x1)
CS: 6.50; IF: 4.37; h5-index: 72; median h5: 85
<https://www.journals.elsevier.com/ocean-engineering>
 - 4) Advances in Water Resources, Elsevier (x1)
CS: 9.00; IF: 5.36; h5-index: 58; median h5: 72
<https://www.journals.elsevier.com/advances-in-water-resources>
 - 5) Natural Hazards and Earth System Sciences, EGU (x2)
CS: 7.20; IF: 4.58; h5-index: 48; median h5: 58
<https://www.natural-hazards-and-earth-system-sciences.net/index.html>
 - 6) Journal of Operational Oceanography, Taylor & Francis (x1)
CS: 7.00; IF: 4.21; h5-index: 18; median h5: 26
<https://www.tandfonline.com/journals/tjoo20>
 - 7) Acta Geophysica, Springer Nature (x3)
CS: 2.60; IF: 2.29; h5-index: 26; median h5: 40
<https://www.springer.com/journal/11600>
 - 8) Journal of Marine Research, Yale University (x1)
h5-index: 26; median h5: 40
<http://www.journalofmarineresearch.org/>
 - 9) Journal of Marine Science and Engineering, MDPI (x16)
CS: 2.80; IF: 2.74; h5-index: 37; median h5: 47
<http://www.mdpi.com/journal/jmse>
 - 10) Applied Sciences, MDPI (x2)
CS: 3.70; IF: 2.84; h5-index: 105; median h5: 140
<https://www.mdpi.com/journal/applsci>
 - 11) Energies, MDPI (x1)
CS: 5.00; IF: 3.25; h5-index: 108; median h5: 146
<https://www.mdpi.com/journal/energies>
 - 12) Climate, MDPI (x1)
CS: 4.70; h5-index: 36; median h5: 49
<https://www.mdpi.com/journal/climate>
 - 13) Hydrology, MDPI (x1)
CS: 3.60; h5-index: 27; median h5: 33
<https://www.mdpi.com/journal/hydrology>
 - 14) Mediterranean Marine Science, HCMR (x4)
CS: 3.60; IF: 3.02; h5-index: 22; median h5: 33

- <https://ejournals.epublishing.ekt.gr/index.php/hcmr-med-mar-sc>
15) Natural Hazards Research, KeAi, Elsevier (x2)
<https://www.sciencedirect.com/journal/natural-hazards-research>
- 16) Regional Studies in Marine Science, Elsevier (x1)
CS: 2.30; IF: 2.17; h5-index: 26; median h5: 31
<https://www.sciencedirect.com/journal/regional-studies-in-marine-science>
- 17) Computational Particle Mechanics, Springer (x1)
CS: 3.30; IF: 3.12; h5-index: 25; median h5: 30
<https://www.springer.com/journal/40571>
- 18) Coasts, MDPI (x1)
<https://www.mdpi.com/journal/coasts>
- 19) Theoretical and Applied Climatology, Springer (x1)
CS: 5.10; IF: 3.40; h5-index: 57; median h5: 74
<https://www.springer.com/journal/704>
- 20) GeoHazards, MDPI (x1)
<https://www.mdpi.com/journal/geohazards>
- 21) Journal of Hydroinformatics, IWA Publishing (x1)
CS: 4.50; IF: 2.70; h5-index: 30; median h5: 45
<https://www2.cloud.editorialmanager.com/hydro/default2.aspx>
- 22) Frontiers in Marine Science, Frontiers (x1)
CS: 5.20; IF: 3.70; h5-index: 93; median h5: 135
<https://www.frontiersin.org/journals/marine-science>
- 23) Estuarine, Coastal and Shelf Science, Elsevier (x1)
CS: 5.50; IF: 2.80; h5-index: 50; median h5: 66
<https://www.sciencedirect.com/journal/estuarine-coastal-and-shelf-science>
- 24) Earth Surface Processes and Landforms, Wiley (x1)
CS: 7.00; IF: 3.30; h5-index: 45; median h5: 60
<https://onlinelibrary.wiley.com/journal/10969837>
- 25) Behaviour & Information Technology, Taylor & Francis (x1)
CS: 6.80; IF: 3.70; h5-index: 55; median h5: 76
<https://www.tandfonline.com/journals/tbit20>
- 26) Science of the Total Environment, Elsevier (x1)
CS: 17.60; IF: 9.80; h5-index: 273; median h5: 375
<https://www.sciencedirect.com/journal/science-of-the-total-environment>
- 27) Ocean & Coastal Management, Elsevier (x1)
CS: 8.50; IF: 4.80; h5-index: 66; median h5: 85
<https://www.sciencedirect.com/journal/ocean-and-coastal-management>
- 28) Applied Ocean Research, Elsevier (x1)
CS: 8.70; IF: 4.30; h5-index: 53; median h5: 68
<https://www.sciencedirect.com/journal/applied-ocean-research>
- 29) Journal of Environmental Management, Elsevier (x1)
CS: 13.70; IF: 8.00; h5-index: 171; median h5: 233

<https://www.sciencedirect.com/journal/journal-of-environmental-management>

30) International Journal of Disaster Risk Reduction, Elsevier (x1)

CS:8.70; IF: 4.20; h5-index: 88; median h5: 107

<https://www.sciencedirect.com/journal/international-journal-of-disaster-risk-reduction>

31) Land, MDPI (x1)

CS:4.90; IF: 3.20; h5-index: 72; median h5: 94

<https://www.mdpi.com/journal/land>

32) Coastal Engineering, Elsevier (x1)

CS:9.20; IF: 4.20; h5-index: 46; median h5: 60

<https://www.sciencedirect.com/journal/coastal-engineering>

33) Progress in Oceanography, Elsevier (x1)

CS:7.20; IF: 3.80; h5-index: 44; median h5: 57

<https://www.sciencedirect.com/journal/progress-in-oceanography>

34) Water Science, Taylor & Francis (x1)

CS:3.00; IF: 2.10

<https://www.tandfonline.com/journals/twas20>

Conferences

1) International Offshore and Polar Engineering (ISOPE) Conference (x9)

<http://www.isopec.org/conferences/conferences.htm>

2) Protection and Restoration of the Environment (PRE) Conference (x2)

<http://pre13.civil.auth.gr/>

3) International Conference on Design and Management of Port, Coastal and Offshore Works (DMPCO) (x1)

<https://dmpco.eu/>

Total Reviews 73

Journal Paper Reviews 61

Conference Paper Reviews 12

EDITOR OF SCIENTIFIC JOURNALS (Total: 3)

Guest Editor

1) Special Issue "Hydrodynamic Circulation Modelling in the Marine Environment" of MDPI's *Journal of Marine Science and Engineering* (ISSN 2077-1312). This special issue belongs to the section "Physical Oceanography". https://www.mdpi.com/journal/jmse/special_issues/hydrodynamic_circulation

2) Special Issue "Modeling of Flood Hazard and Assessment of Inundation Impacts, Vulnerability and Risk in Coastal Areas" of MDPI's *Water* (ISSN 2073-4441). This special issue belongs to the section "Hydrology". https://www.mdpi.com/journal/water/special_issues/U36ZQ0S8WF

Topic Editor

3) MDPI's *Water* (EISSN 2073-444). <https://www.mdpi.com/journal/water>

EDITOR OF SCIENTIFIC CONFERENCE PROCEEDINGS

- 1) Book of Abstracts for 2nd International Conference on Design and Management of Port, Coastal, and Offshore Works (DMPCO), 24-27 May 2023, AUTH Research Dissemination Center, Thessaloniki, Greece, Editors Th. Karambas, E. Loukogeorgaki, C. Makris
- 2) Book of Proceedings for 2nd International Conference on Design and Management of Port, Coastal, and Offshore Works (DMPCO), 24-27 May 2023, AUTH Research Dissemination Center, Thessaloniki, Greece, Editors Th. Karambas, E. Loukogeorgaki, C. Makris

PROFESSIONAL EXPERIENCE IN ORGANIZING MEETINGS AND WORKSHOPS

Organizing Committee

- 1) WaveForUs Program Closure Workshop, Division of Hydraulics and Environmental Engineering, School of Civil Engineering, AUTH, KE.D.E.A. Building, AUTH Research Committee, Thessaloniki, Greece, 9 June 2015.
- 2) CCSEAWAVS Program Closure Workshop, Division of Hydraulics and Environmental Engineering, School of Civil Engineering, AUTH, KE.D.E.A. Building, AUTH Research Committee, Thessaloniki, Greece, 15 November 2015.
- 3) 1st Scientific Weekend at TABYA, TABYA multi-cultural space, 19-20 December 2015, Thessaloniki, Greece.
- 4) 2-day Workshop and Seminar: 2nd Transboundary Thematic Meeting of TIMMOD Project (ENI-CBC Black Sea Basin 2019), 19-20 April 2021, Thessaloniki, Greece.
- 5) 2nd International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO-2023), KEDEA AUTH, Thessaloniki, 23-27 May 2023.

Scientific Committee

- 6) 1st International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO-2019), Eugenides Foundation, Athens, 8-11 May 2019.
- 7) 2nd International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO-2023), KEDEA AUTH, Thessaloniki, 23-27 May 2023.

CHAIRMAN-COORDINATOR OF SESSIONS IN CONFERENCES & WORKSHOPS

- 1) 1st International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO), Athens, Greece, 8-11 May 2019. Chairman in Session 3: Input Data For Coastal Studies.
- 2) 2nd International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO-2023), KEDEA AUTH, Thessaloniki, 23-27 May 2023.

PRIZES – AWARDS – DISTINCTIONS – SCHOLARSHIPS

- 2007 Thomaideio prize of distinction for a peer-reviewed conference paper authorship and presentation by M.Sc. students of NTUA

2016-'17 IKY-SIEMENS excellence scholarship for post-doctoral research in Greece by the State Scholarships Foundation (SSF/IKY)

ANALYTIC MEMO OF PROFESSIONAL EXPERIENCE ON RESEARCH PROJECTS (16)

- 1) 2006 Research Assistant NTUA; Saraya Aqaba Lagoon Project: [Wave Penetration and Hydrodynamics Modeling in a Coastal Lagoon near Aqaba \(2006\)](#), Program: NTUA subcontracted by LACECO Ltd., Contract duration: 01/08/2006–30/11/2006, Div. of Water Resources, Hydraulic and Maritime Works (DWRHMW), School of Civil Engineering, NTUA, Athens, Greece.
Tasks: a) high resolution numerical simulations with Boussinesq-type, parabolic mild-slope equations and 3rd generation nearshore spectral wave models from the MIKE21 software suite for the wave penetration in an artificial lagoon; b) preliminary investigation of the attributes and design of submerged breakwaters and low-crested sub-aerial structures based on numerical modeling of wave-structure interaction; c) record and use of state-of-the-art design formulae for wave transmission over and around low-crested structures and submerged breakwaters; d) implementation of the best fit formulae; e) validation of numerical modeling approaches against experimentally produced formulae; f) authorship of conference papers and technical reports; g) oral presentations in conferences.

- 2) 2008 Research Assistant AUTH; Project: [Reformation of Under-graduate Studies Program of the AUTH Dept. of Civil Engineering](#) (2008), Education and Initial Professional Constitution Operational Program II (EIPCOP II – ΕΠΕΑΕΚ II), Activity 2.2.2.: Integration of Investigation and Reformation of AUTH Studies Program, Action Category 2.2.2.a: Reformation of Under-graduate Studies Program, Contract duration: 01/01/2008–30/06/2008, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
Tasks: a) design of educational software based on state-of-the-art analytical relations and approaches on various problems of Coastal Engineering and Oceanography: regular and irregular wave characteristics, monochromatic and irregular wave breaking, solitary waves, spectral wave forecasting, seiches inside water basins, porous bottom frictional wave damping, depth of closure, longshore sediment transport, shoreline evolution along groins, storm surge (wind setup), wastewater diffuser/outfall near- and far-field dilution, diffuser parts design (diameters and Darcy coefficient for risers), analytic approximations for linear wave length; b) conference paper and technical reports authorship; c) oral presentations in conferences; d) invited lectures in graduate/post-graduate courses.

- 3) 2008 Research Assistant AUTH, [Prevention and management of sea originated risks to the coastal zone \(CORI\). Extreme sea level variability for Eastern Mediterranean](#) (2006-2008), Πρόγραμμα: INTERREG III-B – ARCHIMED (Measure 3.3), Contract duration: 04/11/2008 – 30/01/2008, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
Task: post-processing of numerical modelling output.

- 4) 2010 Research Assistant AUTH, Project: *Investigation of the coupling between the Aegean and Black Seas through the Turkish Strait System (SESAME)* (2007-2010), IP-036949, Program: Research DG, Commission of European Communities, Contract duration: 02/12/2010-31/01/2011, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
Task: post-processing of numerical modelling output.
- 5) 2012 Research Assistant AUTH, Project: *Enhancement of research, education and cultural activities of Civil Engineering Dept. in AUTH (2012)*, Education and Initial Professional Constitution Operational Program II (EIPCOP II – ΕΠΕΑΕΚ II), Contract duration: 01/10/2012-31/10/2012, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
Task: teaching assistance in academic courses.
- 6) 2012-'15 Research Associate AUTH; Project: *Estimating the effects of Climate Change on SEA level and WAve climate of the Greek seas, coastal Vulnerability and Safety of coastal and marine structures (CCSEAWAVS)* (2012-2015), THALES Research Program – Reinforcement of the interdisciplinary and/or inter-institutional research and innovation with the possibility of attracting high standard researchers from abroad through the implementation of basic and applied excellence research, Contract duration: 01/10/2012–28/02/2013, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
Tasks: a) numerical modelling (climatic simulations) of storm surges with AUTH's MeCSSM/GreCSSM numerical models based on Fortran codes; b) tide-gauge sea level measurements post-processing with filters and signal-processing techniques for their use as model validation data; c) validation of storm surge numerical models against field data; d) review and analysis of state-of-the-art literature on storm surge models and climate change; e) result production (maps, graphs, trends, evolution, statistical indices) of inter- and intra-annual storm surge maxima; f) authorship of journal articles, conference papers, and technical reports; g) oral presentations in conferences.
- 7) 2013-'15 Research Associate AUTH, Project: *Pilot System for the Development and Broadcast of Wave and Maritime Circulation Daily Forecast in the Thermaikos Gulf (Greece), for Public Use and Extreme Conditions (WaveForUs)* (2013-2015), COOPERATION 2011 Research Program – Partnerships of Production and Research Institutions in Focused Research and Technology Sectors, Contract duration: 20/03/2013-31/10/2015, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
Tasks: a) numerical modelling (operational forecast simulations) of storm surges with AUTH's storm surge, wave-induced set-up and astronomical tides models based on Fortran codes; b) tide-gauge sea level measurements post-processing with filters and signal-processing techniques for their use as model validation data; c) validation of storm tide numerical models against field data; d) review and analysis of state-of-the-art literature on operational forecast models and platforms concerning wave, storm surge and hydrodynamic circulation models; e) result production (maps, graphs, alert signals) of sea level; f) authorship of conference papers and technical reports; g) oral presentations in conferences.

- 8) 2015 Research Associate AUTH/NTUA; Project: [Hellenic Academic E-books and Accessories](#) (2014-2015), KALLIPOS Research Project, HEAL-Link, Education and Lifelong Learning Program, National Network of research and Technology, Contract duration: 05/05/2015-30/09/2015, NTUA, Athens, Greece.
Tasks: a) co-authorship of state-of-the-art textbook on Coastal Engineering and Oceanography and Maritime Environmental Engineering, i.e. general description of the coastal zone, sea level variations, tides, storm surges, tsunamis, steric effects, climate change impacts on the sea level, coastal flooding, inundation risk assessment and vulnerability indexes, design of submarine outfalls, diffusers, effluent dilution calculations; b) design of interactive coastal/ocean engineering software and calculation tools for graduate students; c) authorship of practical examples, evaluation criteria and exercises.
- 9) 2016-'17 Post-doctoral Research Fellow AUTH, Project: [Investigation of the impacts of intense storm surge events on the coastal zones of the Mediterranean Sea](#), IKY-SIEMENS program of excellence scholarships for post-doctoral research in Greece by the State Scholarships Foundation (SSF/IKY) academic year 2016-17, Fellowship duration: 15/09/2016-15/07/2017.
Tasks: a) numerical modelling (climatic and operational forecast simulations) of storm surges, wave-induced set-up, surf beat, wave run-up, and astronomical tides with numerical models based on Fortran and VBA codes; b) tide-gauge sea level measurements post-processing with filters and signal-processing techniques for their use as model validation data; c) validation of storm surge numerical models against field data; d) review and analysis of state-of-the-art literature on storm surge models, climate change, wave-induced sea level on the shoreline, and extreme value analysis; e) result production (maps, graphs, trends, evolution, statistical indices) of inter- and intra-annual storm surge maxima, extremes of storm surges, wave characteristics, total sea level on the coast, and coastal flooding; f) authorship of journal articles, conference papers, and technical reports.
- 10) 2017-'18 Research Associate AUTH; Project: [Monitoring of Water Quality in the Maritime Environment of the Thermaikos Gulf, Thessaloniki, Greece](#), EYATH S.A., Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
Tasks: a) open-sea field measurements (via cruises) of physical parameters, chlorophyll-a, dissolved oxygen and pH with CTD instrument; b) post-processing and analysis of measured vertical distributions of conductivity, salinity, temperature, density, chlorophyll-a, dissolved oxygen and pH in the sea water column; c) authorship of journal article, conference paper, and technical report.
- 11) 2018-'20 Research Associate AUTH; Project: [Integrated Quantitative Assessment of Climate Change Impacts on Mediterranean Coastal Water Resources and Socio-Economic Vulnerability Mapping \(MEDAQCLIM\)](#) (2017-2019), ERANETMED Research Program – ERANETMED_WATER-13-112, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
Tasks: a) selection of climate scenarios and assessment of RCM projections (unified set of IPCC's climate change scenarios; b) performing statistical analysis on projections from RCM models gathered from databases published by national Euro-Mediterranean climate centres; c) estimating sea level changes from regional sea circulation numerical modelling; d) numerical modelling (climatic

simulations) of meteorological residuals of the sea-surface dynamics (storm surges) with AUTH's MeCSSM numerical model based on Fortran codes; e) numerical modelling on estuarine hydrodynamics (providing salinity, temperature, current and sea level fields under climate and water consumption (by agriculture, hydropower energy) scenarios; f) tide-gauge sea level measurements post-processing with filters and signal-processing techniques for their use as model validation data; g) validation of storm surge numerical results against field data; h) result production (maps, graphs, trends, evolution, statistical indices) of inter- and intra-annual storm surge maxima; i) identification and quantitative estimation of coastal inundation; j) contributing in the design of an integrated coastal zone management (ICZM) system/approach; k) authorship of journal articles, conference papers, and technical reports; l) oral presentations in conferences.

12) 2018-'22 Research Associate AUTH; Project: [Decision Support Tool For Navigation Management In Ports \(ACCU-WAVES\)](#); Research Program: Joint Action State Aid for Research, Technological Development & Innovation, Research – Create – Innovate, Competitiveness, Entrepreneurship and Innovation, ESPA 2014-2020; DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.

Tasks: a) Evaluation, management and preparation of input data in numerical models, b) Transformation and adaptation of values and forms of atmospheric and marine parameters based on specific computational protocols for model cooperation and coupling, c) choice of port case studies and definition of bathymetric and geometric characteristics of ports and harbors, d) definition of boundary and initial conditions for the computational simulation grids and of geometries of solid and reflective boundaries, e) development of hydrodynamic models based on Fortran codes for the simulation of sea-states (wave propagation and hydrodynamic circulation), f) measurements of maritime processes and post-processing of *in situ* field observations: instrument set-up (wave buoys, tide and sea level gauges) in crucial positions inside and in the vicinity of ports together with use and processing of field data from Hydrographic Services and satellite data from AVISO+ and Copernicus databases, g) validation (parameterization, adjustment, calibration, evaluation) of hydrodynamic models, h) coupled implementation of numerical simulations, interconnection of Fortran codes in real-time situations for 50 ports worldwide, i) post-processing of results and design of graphs and maps, j) determination of control parameters, special technical issues of simulations, practical issues of navigation in ports, management of mooring sites and logistics of each port, k) development of automated forecast model/platform and time-programming for the operational function of sea-state forecasts.

13) 2020 Research Associate of Scientia Maris co.; Project: *COAST-UP*; Research Program: Joint Action State Aid for Research, Technological Development & Innovation, Research – Create – Innovate, Competitiveness, Entrepreneurship, and Innovation, ESPA 2014-2020.

Tasks: a) Upgrade, evaluation, and validation of Maris-BSQ model, b) collection of experimental data from international literature, c) creation of grid domains of experimental setups, d) setup of boundary conditions and wave scenarios for numerical modelling, e) setup of conditions for wave runup.

- 14) 2020-'22 Research Associate AUTH; Project: [Promoting Technology Innovation in Monitoring & Modelling for Assessment of Fish Stock and Non-Fishing Resources \(TIMMOD\)](#), Program: ENI CBC Black Sea Basin 2014-2020.
- Tasks:* a) Promotion of best practices and analysis of innovative technologies and methods of monitoring environmental parameters for the assessment of fishing and non-fishing resources in the Black Sea; b) Development of three-dimensional hydrodynamic circulation simulations. Forecast of marine conditions. Application of advanced numerical tools within ecological modeling; c) Study of cross-border coordination mechanisms; d) Development of innovation strategy plan for the technological upgrade of environmental monitoring and modeling; e) Participation in local workshops and workshops with monitoring and decision-making bodies. Communication and dissemination activities; f) Writing deliverables and articles in scientific journals and conference proceedings. Presentations at meetings and scientific conferences.
- 15) 2021-'23 Research Associate AUTH; Project: [Mapping of pressures and estimation of external and internal loads of nutrients and organic material for the protection and management of the marine waters in Thermaikos Gulf \(Thermaikos-MAPATG\)](#). Program: Support to the Management Authority of the Protected Areas of Thermaikos Gulf for the implementation of interventions for the management, protection and promotion of the natural environment and biodiversity within its area of responsibility.
- Tasks:* a) field measurements and sampling in the open sea (via sailing campaigns) and in rivers/estuaries for physicochemical parameters, chlorophyll-a, dissolved oxygen and pH with CTD instruments, b) open-sea *in situ* measurements (via sailing campaigns) for hydrodynamic circulation (coastal currents) with ADCP instruments, c) post-processing and analysis of measured vertical distributions of conductivity, salinity, temperature, density, chlorophyll-a, dissolved oxygen and pH, d) authoring deliverables, technical reports, and articles for journals and conferences, e) 3-D numerical model implementation of hydrodynamic circulation in the Thermaikos Gulf, f) participation in local workshops, dissemination and results' diffusion activities.
- 16) 2024-'26 Research Associate AUTH; Project: [Flash flood risk prevention & resilience in Mediterranean area through an Integrated Multistakeholder Governance Model, gathering prevention, adaptation, and mitigation solutions \(LocAll4Flood\)](#), led by Balmes University Foundation. Program: INTERREG Euro-MED, Call: 2nd Call for Proposals Thematic Projects.
- Tasks:* a) Prevention activities: Develop and Adapt reliable and specific forecasting tools and early warning systems at catchment scale, b) Adaptation activities: Define the components of an integrated governance model & assess the social awareness and risk perception revolving around flash flood events, c) Mitigation activities: Adapt, finetune and categorize existing Nature Based Solutions (NBS) tool box to mitigate the negative effects of flash flood events, d) 1.5 Boxing the prevention, adaptation & mitigation solutions into the LOCAL4FLOOD integrated multistakeholder governance model IMGGM - Training Program, e) Pilots setup & description, f) Prevention activities: Test forecasting tools & early warning systems, g) Adaptation activities: Implement participatory actions to raise the social awareness and improve the response capacity to flash flood events, h) Mitigation activities: Lay the foundations for implementation of mitigating NBS through a participatory-based approach, i) Monitoring activities: Assess the efficiency of the LocAll4Flood IMGGM to reduce flash flood risks also

through citizen science activities, j) Multi-stakeholders engagement, k) Communication & Dissemination: online communication tools

Professional Experience in Research Projects

Total	Number of Research Projects:	16	
	Number of Years:	19	2006-2024
	Sum of employment months by contract:	190	man-months
	Sum of employment respective years:	15.83	man-years
Post-Doctoral	Number of Research Projects:	9	
	Number of Years:	10	2015-2024
	Sum of employment months by contract:	157	man-months
	Sum of employment respective years:	13.08	man-years

FURTHER EXPERIENCE ON SUBMISSION OF RESEARCH PROPOSALS

- 2015 Program: **HORIZON 2020 – DRS 2015**; Project: **SIRoCCo** - Societal Resilient Management of Flood Risk along the EU Coastline under Climate Change.
- 2016 Program: **INTERREG Balkan-Med 2016** – Cooperation between Greece, Bulgaria and Cyprus; Project: **FACTS** - Future Adaptation to Climate change in Touristic Shores: integrated management strategies against erosion due to waves and storm surges.
Program: Education and Lifelong Learning **EDBM**, Project: **EDBM20** Academic Teaching Experience for Young Scientists and Doctors (2016-2017).
- 2017 Program: Education and Lifelong Learning **EDBM34** Research support with emphasis on young researchers, Project: **CCFLOOD-MedBlack** Investigation of the effects of historical climate changes on coastal flooding due to wave and meteorological tides in the coupled Mediterranean – Black Sea system.
Program: **ELIDEK** Projects for the Enhancement of Post-Doctoral Research, Project: **UPRIPOORT-CC** Upgrading port and harbour structures in a changing climate under a nonstationary risk-based framework.
Program: **ELIDEK** Projects for the Enhancement of Post-Doctoral Research, Project: **BEACHPROTECT** Monitoring and projection of the wave dissipation and beach response due to hard coastal defences and seagrass meadows.
Program: Joint Action State Aid for Research, Technological Development & Innovation, **Research – Create – Innovate**, Competitiveness, Entrepreneurship and Innovation, ESPA 2014-2020, Project: **DeSTACCI** Decision Support Tool for Adaptation Measures of Sewer Networks in Coastal Cities to Climate Change Impacts.

- 2018 Program: **ELIDEK** Projects for the Enhancement of Academic Research, Project: **CORALMED** Computational Tool for Coastal Flooding in the Mediterranean Sea, Project: **RUPS** Risk-based Upgrading for Harbor Protection Structures due to Climate Change.
- 2019 Program: Education and Lifelong Learning **EDBM34** Research support with emphasis on young researchers, Project: Advanced high-resolution mathematical model for simulating coastal flooding due to storm surges in the Mediterranean Sea under climate change conditions.
Program: Joint Action State Aid for Research, Technological Development & Innovation, **Research – Create – Innovate**, Competitiveness, Entrepreneurship and Innovation, ESPA 2014-2020, Project: **KAVEIROS** Observatory of water resources quality using terrestrial, marine and aerial observations for tourism development, environmental protection and health of coastal cities' inhabitants.
Program: Cooperation of **EYATH – AUTH**, Project: Optimization of Thermaic Gulf quality monitoring system - Thermaic Gulf water quality map.
- 2020 Program: **HORIZON 2020**, Call name: Information and Communication Technologies, Call ID: H2020-ICT-2018-20, Advancing photonics technologies and application driven photonics components and the innovation ecosystem, ID: ICT-37-2020; Project: **PHONIO** Community-driven sensing on environmental risks through photonics.
Program: **ELIDEK** Clusters of Research, Innovation and Diffusion, Project: **SeaFlood-Alert** Innovative I/T Application for Public Early Warning in case of Coastal Flooding.
Program: **ELIDEK** Support of Faculty Members, Project: **PhyCoTherm** Physical Connectivity Processes in Thermaikos Gulf.
- 2021 Program: **European Research Council (ERC) Consolidator Grant**, Call name: **ERC CG 2021**; Project: **MicroMARE** Tracking the fate of Microplastics in the MARine Environment, led by Dr. Y. Androulidakis (AUTH).
- 2022 Program: **The Research Promotion Foundation Programmes for Research, Technological Development and Innovation “RESTART 2016 – 2020”**, Call name: **CO-DEVELOP**; Project: **Amphitrite** A Digital Twin for the Cyprus region marine ecosystem.
Program: **ELIDEK** Greece 2.0 Basic Research Financing Action (Horizontal support of all Sciences), Call: **Sub-action II Funding Projects in Leading-Edge Sectors**; Project: **MAREGEN** Detection and Recovery of Marine Plastic Litter in Coastal Zones for Regeneration, Photocatalytic Enrichment and Reuse in the Marine Environment, led by Dr. G. Kenanakis (FORTH).
- 2023 Program: **Black Sea Cross-Border Cooperation (BSB CBC)**, Call name: **INTERREG NEXT BSB 2021-2027**; Project: **TIMMOD-NEXT** Enhancing innovation capacities and uptake of advanced technologies towards sustainable fisheries and eco-friendly aquaculture in Black Sea. Project: **NATURE-BS** Promoting Large-scale Nature-based Solutions for reducing climate driven risks and improving environment in Black Sea coastal zone.

Program: **HORIZON EUROPE HORIZON-IA**, Call: **HORIZON-MISS-2023-OCEAN-SOIL-01**; Project: **MEDUSSA** Addressing nutrient pollution in the MEDiterranean Basin: demonstration of Upstream and downstream solutions for prevention and remediation in Soil, river areas and SeA.

2024 Program: **HORIZON EUROPE HORIZON-RIA**, Call: **HORIZON-INFRA-2024-TECH-01**; Project: **Twin-Up** Ocean-led AI-enabled communities to enrich DestinE.

Program: **INTERREG Euro-MED**; Project: **SAFER-Med** Solutions Against Flooding and Erosion for Resilient Mediterranean coasts in the future.

PROFESSIONAL EXPERIENCE ON ACADEMIC TEACHING & TUTORING

2007-'13 Teaching Assistant in Academic Courses Program: Participation in the Program of Tutoring and Teaching Assistance of AUTH's Civil Engineering Dept. for (i) 7th semester's main course 'Coastal and Port Engineering' and (ii) 9th semester's optional specialty course 'Coastal Protection Works' Tasks: a) formulation and supervising assistance of semester projects, exercises, essays, and educational software; b) lecturing assistance by oral presentations.

2009-'20 Diploma Theses Supervising Assistant:

- 1) Preari, M.G. (2009). *Investigation of Thermal Pollution in Coastal Waters: The Case of Aliveri Bay, (Evoia, Greece)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)
- 2) Oikonomidis, K. (2009). *Coastal Protection Embankments & Revetments*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)
- 3) Betziou, M. and Belba, K. (2009). *Wave Climate Estimation and Measurements – Application in the Strymonas River Estuary (Greece)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)
- 4) Alavantas, N. (2011). *Wave Attenuation of Fishing Shelters: The Case of Makri Harbor (Alexandroupolis, Thrace, Greece)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)
- 5) Vrachas, P. (2011). *Investigation of Wave Run-up and Consequent Erosion of a Vertical Coastal Slope in the coastal area of N. Michaniona (Thessaloniki, Greece)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)
- 6) Charisi, A. (2013). *Investigation of Storm Surges in the Aegean Sea*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)
- 7) Diamanti, N. (2014). *Storm Surges in the Greek Seas under Climate Change*, LMEMW, DHEE, Post-graduate Program of Studies on Environmental Protection and Sustainable Growth, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)
- 8) Sotiriadis, Y. (2020). *Study of Intense Storm Surges in the Mediterranean Coastal Zone for the 1979-2015 period*. LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)

- 2018 University Fellow Scholar in the framework of the Program “Development of Human Resources, Education and Lifelong Learning” and Project “Acquisition of academic teaching experience in new PhD scientists” (EDBM 45) for AUPH Civil Engineering Dept.’s 8th semester’s optional specialty course “Mathematical Modeling of Water Quality in Aquatic Ecosystems”. Tasks: a) lecturing by weekly oral presentations; b) formulation of student notes, semester project themes, educational software, and exercises; c) weekly supervising of essays and projects and tutoring students.
- 2023 University Fellow Scholar in the framework of the Program “Development of Human Resources, Education and Lifelong Learning” and Project “Acquisition of academic teaching experience in new PhD scientists” (EDBM 191) for AUPH Civil Engineering Dept.’s 8th semester’s optional specialty courses “Numerical Modelling for Hydraulic Engineering” and “Hydraulics of Groundwater Flows”. Tasks: a) lecturing by weekly oral presentations; b) formulation of student notes, semester project themes, educational software, and exercises; c) weekly supervising of essays and projects and tutoring students.
- 2024 Assistant Professor of the DCE at DUTH: teaching the 4th semester’s main course “Fluid Mechanics” and the 9th semester’s optional specialty courses “Computational Fluid Mechanics” and “River Hydraulics and Engineering”. Teaching post-graduate courses “Numerical Methods in Fluid Mechanics”, “Computational Simulation of Marine and Coastal Environmental Processes in Catchment-Beach Systems”, “Residual Flows and Coastal Flooding: Concepts of Hazard, Risk, Vulnerability and Resilience”. Tasks: a) lecturing by weekly oral presentations; b) formulation of student notes, semester project themes, educational software, and exercises; c) weekly supervising of essays and projects and tutoring students.

Professional Experience in Academic Teaching

Number of Academic Teaching Activities		3	projects
By Contract Duration	Total years of teaching experience:	9	years
			2007-2013, 2018, 2023
	Total months of teaching experience:	53.75	man-months
	Total years of teaching experience:	4.5	man-years
By Semesters	Total semesters of teaching experience:	14	semesters
	Total academic years of teaching experience:	7	years
Full-course teaching	Total courses taught:	3	courses
	Total semesters of full-course teaching:	2	semesters
	Total academic years of full-course teaching:	1	years
	Total months of full-course teaching:	14.5	man-months
	Total years of full-course teaching:	1.21	man-years

PROFESSIONAL EXPERIENCE ON CONSULTANCY & TECHNICAL STUDIES/REPORTS

- Public Civil Works
- 1a) **Makris, C.V. (2010a)**. *Forecasting and Analysis of the Wave Field and the Hydrodynamic Characteristics in the Submarine Sewage Outfall Region concerning the Water Treatment Plant of Skyros Island (Aegean Sea, Greece)*, in account of EVERGOS Ltd., Xanthi, Greece. *(in Greek)*
 - 1b) **Makris, C.V. (2010b)**. *Sanitary Inspection of Polluting and Bacteriological Loads Dilution in the Submarine Sewage Outfall Region concerning the Water Treatment Plant of Skyros Island (Aegean Sea, Greece)*, in account of EVERGOS Ltd., Xanthi, Greece. *(in Greek)*
 - 2) **Makris, C.V. (2012)**. *Coastal and Harbor Works Investigation for the Study of Environmental Enhancement, Protection and Construction of Accommodation Infrastructure, in the Area of ETAD Property at the Caiaphas Lake Hot Springs*, as part of Methodology and Technical Report, in account of HYDROMENT Engineering Consultants, Athens, Greece. *(in Greek)*
 - 3) **Makris, C.V. (2020)**. *Environmental Baseline Report (EBR) and Environmental Action Plan (EAP) for the Block 10 – Kyparissiakos Gulf Lease Area*, Subsections of EBR referring to the morphology of coastal zone and bathymetry, geological and tectonic features, and marine hydrography and oceanography, in account of KartECO Consultants Environmental Engineers.
 - 4) **Makris, C.V. (2020)**. *Scenarios of Model Runs for a Coastal Study in ELLINIKO area (Attica, Greece) Extreme Cases and Design Values for Waves, MSL, Storm Surge, Tides*. In account of Scientia Maris Co.
- Private Civil Works
- 5) Various technical reports for Legislative Technical Rearrangement concerning Inhabitable Spaces based on the Greek Law N.3843/2010. *(in Greek)*

RESEARCH INTERESTS

- Coastal Engineering, Dynamics, and Modelling
- Ocean Engineering, Dynamics, and Modelling
- Physical Oceanography
- Operational Oceanography
- Maritime Hydrodynamics
- Water Wave Dynamics
- Wave Breaking
- Surf Zone Dynamics
- Storm Surges
- Climate Change
- Coastal Flooding
- Coherent Turbulent Structures
- Numerical Modelling
- Computational Fluid Dynamics (CFD)

- Smoothed Particle Hydrodynamics (SPH)
- Large Eddy Simulation (LES)
- Hydrodynamic Modelling and Simulations
- Modeling of Water Waves, Turbulence, and Storm Surges
- Oceanographic Forecast Systems Development
- Sea Level (Tide-gauge) Measurements Processing
- Oceanographic Measurements (with CTD)
- Port Engineering and Design of Harbor Works
- Environmental Engineering
- Design of Coastal Zone Protection Works
- Mild-type Protection Methods for the Coastal Zone
- Design of Submerged Breakwaters
- Sanitary Inspection of Coastal Areas
- Sea Water Quality Modelling
- Sea Water Monitoring
- Design of Sewage Discharge Systems in the Maritime Environment
- Design of Submarine Outfall Pipelines and Diffuser Systems
- Academic Software Development for Engineers and Scientists

USEFUL LINKS

Webpage at DUTH <https://civil.duth.gr/author/cmakris/>

Webpage at AUTH <https://people.auth.gr/cmakris/>

Curriculum Vitae <https://utopia.duth.gr/cmakris/CV/>

LinkedIn <https://www.linkedin.com/in/christos-makris-04596120>

Google Scholar <https://scholar.google.gr/citations?user=3aJseoYAAAAJ>

ResearchGate https://www.researchgate.net/profile/Christos_Makris4

Academia.edu <https://auth.academia.edu/MakrisChristos>

ORCID <http://orcid.org/0000-0001-6438-2659>

Web of Science <https://www.webofscience.com/wos/author/record/Q-9574-2016>

Scopus <https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=27167653200>

Research Group <http://coastal.web.auth.gr/index.htm>