

## CURRICULUM VITAE

Personal information
Georgios-Fivos SARGENTIS PhD in Architecture, PhD in Civil Engineering, Civil Engineer NTUA
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Date of birth: 20.9.1972
Nationality: Greek

## SUMMARY

<p>Fivos Sargentis, born in Athens in 1972, is a Dr. Engineer and sculptor.</p> <p>He studied Civil Engineering at the National Technical University of Athens (NTUA) and his diploma thesis was entitled "Aesthetic element in water...". He later got two Ph.D. degrees—one from the School of Architecture on "The Use and Technical Aspects of Materials in Sculpture", and a second from the School of Civil Engineering on "Issues of prosperity: Stochastic evaluation of data related to environment, infrastructures, economy and society".</p> <p>His academic career includes teaching and research at NTUA, where he has served as Laboratory Teaching Staff since 2014. His scholarly work has been published in international conferences and peer-reviewed journals, focusing on key research areas such as: Issues of Prosperity; the Water-Energy-Food (WEF) nexus; Natural Hazards; Civil Engineering; and the intersection of Art and Aesthetics.</p> <p>He has been engaged in sculpture, jewelry, and toy design from an early age, with his work exhibited in solo and group exhibitions and featured in public spaces.</p> <p>Member of: Technical Chamber of Greece (TEE-TCG) Chamber of Fine Arts of Greece</p> <p>He is married and he has two daughters.</p>
Social networks
<a href="https://orcid.org/0000-0003-0555-4021">https://orcid.org/0000-0003-0555-4021</a> , <a href="https://twitter.com/GFivoSargentis">https://twitter.com/GFivoSargentis</a> , <a href="https://scholar.google.com/citations?user=bnHDA8gAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=bnHDA8gAAAAJ&amp;hl=en</a> , <a href="https://www.researchgate.net/profile/G-Fivos-Sargentis">https://www.researchgate.net/profile/G-Fivos-Sargentis</a> , <a href="https://www.youtube.com/@GFivoSargentis">https://www.youtube.com/@GFivoSargentis</a> , <a href="https://www.linkedin.com/in/g-fivos/">https://www.linkedin.com/in/g-fivos/</a> , <a href="https://www.facebook.com/gfivos">https://www.facebook.com/gfivos</a>

## EDUCATION

2015-2022	National Technical University of Athens, School of Civil Engineering PhD Thesis: <a href="#">Issues of prosperity: Stochastic evaluation of data related to environment, infrastructures, economy and society</a> Supervisor: Prof. D. Koutsoyiannis
2009	Cal-Earth (Nader Khalili): <a href="#">Architecture earth</a> . Instructors: Iliona Khalili, Director of Cal-Earth and Claire Blanchemanche
2001-2006	National Technical University of Athens, School of Architecture PhD Thesis: <a href="#">Use and technical aspects of Materials in Sculpture</a> Supervisor: Prof. Aim. Koroneos
1991-1998	National Technical University of Athens, School of Civil Engineering Diploma thesis: <a href="#">The aesthetic element in water, hydraulic works and dams</a> Supervisors: Prof. Th. Xanthopoulos, D. Koutsoyiannis, Th. Fotiou

## RESEARCH

2025-now	Principal Researcher: Development of innovative decentralized technologies and new co-created governance models for WATER SENSitive communities (No: 101181779)
2017-now	Research at the Laboratory of Hydrology and Water Resources Development of NTUA
2024	Crowdsourcing in architectural education: Participatory urban-landscape mapping application for university students (ARCHIMAP)
2022-2023	Geoinformation flood risk assessment levels for streams
2021-2022	ADDOPTML project: "ADDitively Manufactured OPTimized Structures by means of Machine Learning" (No: 101007595) belonging to the Marie Skłodowska-Curie Actions (MSCA) Research and Innovation Staff Exchange (RISE) H2020-MSCA-RISE-2020.
2018-2019	OptArch project: "Optimization Driven Architectural Design of Structures" (No: 689983) belonging to the Marie Skłodowska-Curie Actions (MSCA) Research and Innovation Staff Exchange (RISE) H2020-MSCA-RISE-2015.
2014-2017	Research at the Laboratory of Materials of Construction
2009-2013	Architecture with the earth and other ecological applications in construction
2006-2007	DAFNI Sustainable Islands Network
2005-2007	Sustainable development in Schinias-Marathon National Park
2002- 2006	NATIONAL TECHNICAL UNIVERSITY OF ATHENS, HISTORICAL RECTOR'S BUILDING, Creation of a Museum of Research and Technology, Recreation of Artistic Property and Documentation of History
2001-2006	Research at the Laboratory of Materials of Construction
2001- 2003	Cooperation with the research and development department of the Network Center of NTUA
2001-2002	Investigation of the management and protection possibilities of Plastiras' Lake
1997-1998	Evaluation of the Educational Work and Services of NTUA

## TEACHING EXPERIENCE

2017-now	Autonomous and assistant teaching at School of Civil Engineering of the NTUA. Courses: 1 <sup>st</sup> and 2 <sup>nd</sup> semester. Materials Laboratory 5 <sup>th</sup> and 6 <sup>th</sup> semester. Laboratory of Water Resources and Environmental Engineering 7 <sup>th</sup> and 8 <sup>th</sup> semester. Humanities Lab ( <a href="#">presentation</a> ) ( <a href="#">playlist</a> )
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	9 <sup>th</sup> semester. Environmental Impact ( <a href="#">playlist</a> ) 9 <sup>th</sup> semester. Experimental Hydraulics 9 <sup>th</sup> semester. Stochastic Methods ( <a href="#">playlist 1</a> , <a href="#">playlist 2</a> ) 9 <sup>th</sup> semester. Complete Hydraulic Design Theme
2023	Stuff we don't mention in the normal course of studies in School of Civil Engineering N.T.U.A. Rovies, Euboea ( <a href="#">presentation</a> , <a href="#">video</a> )
2023-2024	Ionios School. Civil Engineering: State of the art technology–prosperity ( <a href="#">presentation</a> ).
2023	High School of Anavryta. Civil Engineering: State of the art technology–prosperity ( <a href="#">presentation</a> ).
2019	Educational collaboration in the Master Plan within the framework of the "Rome Studies Programm" of the University of Notre Dame School of Architecture (Indiana U.S.)
2018-2019	SADAS-PEA: 13 <sup>th</sup> and 14 <sup>th</sup> weekly Workshop – Seminar "NATURAL BUILDING AND ALTERNATIVE APPROACH TO RESTORATION" Guesthouse Stamou Stourna Alli Meria Volos 26 May to 1 June 2018 and <a href="#">18-24 October 2019</a> .
2014-2017	Teaching at the School of Architecture of NTUA. Courses: 1 <sup>st</sup> semester. Structural Engineering 1: Structural Engineering 2 <sup>nd</sup> semester. Structural Engineering 2: Mechanics of Materials 3 <sup>rd</sup> semester. Budling materials' technology 1: General Part 4 <sup>th</sup> semester. Budling materials' technology 2: Special topics 5 <sup>th</sup> semester. Advantage technologies of structural materials 6 <sup>th</sup> semester. Architecture and Earthquake
2002-2016	Presentation on "The Landscape of Lake Plastiras" in the course Environmental impact of hydraulic works of the postgraduate program "Water Resources Science and Technology" of NTUA ( <a href="#">presentation</a> )
2006	Provision of Training Services and support to schools and teachers of secondary education in the area of responsibility of NTUA regarding the use of Advanced Telematic Services of the Panhellenic School Network (on-line training)
2002-2006	Auxiliary teaching at the School of Architecture of NTUA Courses: 1 <sup>st</sup> semester. Budling materials' technology 1: General Part 2 <sup>nd</sup> semester. Budling materials' technology 2: Special topics
2002-2006	Auxiliary teaching at the School of Civil Engineering of NTUA Courses: 1 <sup>st</sup> semester. Budling materials' technology 1 2 <sup>nd</sup> semester. Budling materials' technology 2
1998-2002	Auxiliary teaching at the School of Architecture, Civil Engineering and Rural, Surveying and Geoinformatics Engineering of NTUA

2001-now	Since 2001, he has supervised numerous diploma, postgraduate, and undergraduate theses.
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#### TECHNOLOGICAL EXPERIENCE

2021-2022	<a href="#">Idea75</a> , Bari Italy
2021	<a href="#">RISA Sicherheitsanalysen GmbH</a> , Berlin, Germany
2018- 2019	<a href="#">Idea75</a> , Bari Italy
2009-2014	Study-supervision and management of public works within the Technical Services Directorate of NTUA.
2008-2009	Head of the Office of Operation and Development of the Historical Complex of Patission (NTUA)
2008-2009	Study-supervision of maintenance-development and infrastructure projects of the Historical Complex of NTUA
2007-2008	Website development and network applications

2007-2008	Member of the working group of the supervision of the project "Maintenance and restoration of the color decoration of the Averoff building NTUA"
2006-2008	Member of the working group of the supervision of the project: " <a href="#">Restoration of the Averoff building NTUA</a> "
2004-2007	Support of the building program of NTUA
2004-2005	Measurements of sound insulation of partition panels and floors and sound absorption of materials
2003-2004	Study of the surrounding area of old buildings of the School of Civil Engineering at the Zografou University Campus
2003	Design and supervision of reconstruction of an old house in the traditional settlement of Amfikleia
2002-2004	Documentation of the workflow of the project "700-bed hostels at the Zografou University Campus"
1998-1999	Study and supervision of works surrounding area and urban furniture at the Zografou University Campus
1998-1999	Creation of a digital map and digital floor plans of buildings of common functions of the Zografou University Campus

#### PUBLICATIONS IN SCIENTIFIC JOURNALS

1.	Angelakis, A.N.; Capodaglio, A.G.; Zanakakis, V.A.; Sargentis, G.-F. <a href="#">Learning from the Past to Secure the Future: Greek Hydro-Technologies and the Evolution of Water Management</a> . <i>Sustainability</i> 2026, 18, 3753. <a href="https://doi.org/10.3390/su18083753">https://doi.org/10.3390/su18083753</a>
2.	Sigourou, S.; Dimitriadis, P.; Pagana, V.; Tsouni, A.; Iliopoulou, T.; Sargentis, G.-F.; Ioannidis, R.; Dimitrakopoulou, D.; Chardavellas, E.; Mamassis, N.; Koutsoyiannis, D.; Kontoes, CH. <a href="#">Developing an integrated methodology for flood-hazard assessment: application to the Pikrodafni River Basin (Attica, Greece)</a> . <i>Front. Built Environ.</i> 12:1768439 2026. <a href="http://dx.doi.org/10.3389/fbuil.2026.1768439">http://dx.doi.org/10.3389/fbuil.2026.1768439</a>
3.	Sargentis, G.-F., Baroudi, S, Angelidis, M.-A., Arvanitidis, I, Mamassis N, Ioannidis R. <a href="#">Restoring the Resilience of Water-Energy-Food Nexus Based on Desalination through Biomass Management: Case Study West Mani, Greece</a> . <i>Adv Environ Eng Res</i> 2026; 7(1): 005. <a href="http://dx.doi.org/10.21926/aer.2601005">http://dx.doi.org/10.21926/aer.2601005</a> .
4.	Angelakis, A.N.; Sargentis, G.-F.; Gigourtakis, N.; Kourgialas, N.N. <a href="#">Hydro-Technologies in Greece from Prehistory to Modern Times: A Review of Water Management, Sustainability, and Resilience</a> . <i>Water</i> 2026, 18, 560. <a href="https://doi.org/10.3390/w18050560">https://doi.org/10.3390/w18050560</a>
5.	Sargentis, G.-F.; Arvanitidis, I.; Angelidis, M.-A. <a href="#">Geospatial Analysis of Energy Requirements for Supplying Desalinated Seawater to the Greek Territory</a> . <i>Clean Energy and Sustainability</i> 2026, 4, 10001. <a href="https://doi.org/10.70322/ces.2026.10001">https://doi.org/10.70322/ces.2026.10001</a>
6.	Koutsoyiannis, D.; Sargentis, G.-F. <a href="#">Trade-Off Between Entropy and Gini Index in Income Distribution</a> . <i>Entropy</i> 2026, 28, 35. <a href="https://doi.org/10.3390/e28010035">https://doi.org/10.3390/e28010035</a>
7.	Sargentis, G.-F., & Papadodimas, N. (2025). <a href="#">Questioning Canvas Capital: Risks and Resilience in Art Markets</a> . <i>Cultural Arts Research and Development</i> , 5(2), 167–184. <a href="https://doi.org/10.55121/card.v5i2.720">https://doi.org/10.55121/card.v5i2.720</a>
8.	Sargentis G.-F.; Papadodimas N. Cultural Cells: <a href="#">A Circular Economy-Driven Blueprint for Creative Tourism and Regional Revitalization in Greece</a> . <i>Adv Environ Eng Res</i> 2025; 6(4): 032. <a href="http://dx.doi.org/10.21926/aer.2504032">http://dx.doi.org/10.21926/aer.2504032</a> .
9.	Sargentis, G.-F.; Palamarczuk, E.; Iliopoulou, T. <a href="#">Swimming Pools in Water Scarce Regions: A Real or Exaggerated Water Problem?</a> Case Studies from Southern Greece. <i>Water</i> 2025, 17, 2934. <a href="https://doi.org/10.3390/w17202934">https://doi.org/10.3390/w17202934</a>
10.	Tsouni A.; Sigourou, S.; Pagana, V.; Tsoutsos M.-Ch.; Dimitriadis, P.; Sargentis, G.-F.; Iliopoulou, T.; Ioannidis, R.; Dimitrakopoulou, D.; Chardavelas E.; Alexopoulos M.-J.; Koukouvinos, A.; Mamassis N.; Koutsoyiannis D.; Kontoes C. <a href="#">Multi-Parameter Flood Risk Assessment and Management Planning at High Spatial Resolution in the Region of Attica, Greece</a> . <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , doi: 10.1109/JSTARS.2025.3613569.
11.	Sargentis, G.-F. <a href="#">Fragility in Human Progress. A Perspective on Governance, Technology and Societal Resilience</a> <i>Front. Complex Systems</i> 2025. <a href="https://doi.10.3389/fcpxs.2025.1609467">https://doi.10.3389/fcpxs.2025.1609467</a>

12.	Sargentis, G.-F.; Markatos, E.; Malamos, N.; Iliopoulou, T. <a href="#">Enhancing Resilience and Self-Sufficiency in the Water–Energy–Food Nexus: A Case Study of Hydroponic Greenhouse Systems in Central Greece</a> . <i>Earth</i> 2025, 6, 95. <a href="https://doi.org/10.3390/earth6030095">https://doi.org/10.3390/earth6030095</a>
13.	Sargentis G.-F. <a href="#">Entropy and War, Toy Models</a> . <i>Recent Prog Sci Eng</i> 2025; 1(2): 007; doi:10.21926/rpse.2502007.
14.	Sargentis, G.-F.; Iliopoulou, T.; Ioannidis, R.; Kougkia, M.; Benekos, I.; Dimitriadis, P.; Koukouvinos, A.; Dimitrakopoulou, D.; Mamassis, N.; Tsouni, A.; Sigourou, S.; Pagana, V.; Kontoes, C.; Koutsoyiannis, D. <a href="#">Technological Advances in Flood Risk Assessment and Related Operational Practices Since the 1970s: A Case Study in the Pikrodafni River of Attica</a> . <i>Water</i> 2025, 17(1), 112. <a href="https://doi.org/10.3390/w17010112">https://doi.org/10.3390/w17010112</a>
15.	Sargentis, G.-F.; Markantonis, D. <a href="#">Water-energy-food nexus and its stochastic dynamics: case study Greece</a> . <i>Discover Sustainability</i> , Springer-Nature, 2024, 5, 511. <a href="https://doi.org/10.1007/s43621-024-00751-z">https://doi.org/10.1007/s43621-024-00751-z</a>
16.	Sargentis G.-F.; Mamassis N.; Koutsoyiannis D. <a href="#">The multifaceted importance of mediterranean pine-tree forests to social cohesion. Energy, resin, grazing, and wildfire management in North Euboea, Greece</a> . <i>Natural Resources Conservation and Research</i> . 2024; 7(2): 9962. <a href="https://doi.org/10.24294/nrcr9962">https://doi.org/10.24294/nrcr9962</a>
17.	Sargentis G.-F.; Ioannidis R.; Dimitriadis,P.; Malamos N.; Lyra O.; Kitsou O.; Kougkia M.; Mamassis N.; Koutsoyiannis D. <a href="#">Energy Self-Sufficiency in Rural Areas</a> , Case Study: North Euboea, Greece. <i>Advances in Environmental and Engineering Research</i> , 2024, 2766-6190. <a href="https://doi.org/10.21926/aeer.2404025">https://doi.org/10.21926/aeer.2404025</a>
18.	Sargentis G.-F.; Ioannidis R.; Mamassis N.; Zoukos V.; Koutsoyiannis D. <a href="#">A Review of the Energy Policy in Greece in the Last 50 Years and Its Implications for Prosperity</a> . <i>Clean Energy and Sustainability</i> 2024, 2, 10021. <a href="https://doi.org/10.70322/ces.2024.10021">https://doi.org/10.70322/ces.2024.10021</a>
19.	Sargentis, G.-F.; Ioannidis, R. <a href="#">The impacts of altering biodiversity to the Water–Energy–Food nexus: case study North Euboea, Greece</a> . <i>Discover Water</i> . Springer-Nature, 2024, 4, 105. <a href="https://doi.org/10.1007/s43832-024-00165-y">https://doi.org/10.1007/s43832-024-00165-y</a>
20.	Sargentis G.-F.; Moraiti K.; Benekos I.; Ioannidis R.; Mamassis N. <a href="#">Fast-Track Documentation of the Alterations on the Landscape, before and after a Natural Hazard—Case Study: North Euboea Greece before and after Storms Daniel and Elias</a> . <i>Rural and Regional Development</i> 2024, 2, 10016. <a href="https://doi.org/10.70322/rrd.2024.10016">https://doi.org/10.70322/rrd.2024.10016</a>
21.	Moraiti K.; Sigourou S.; Dimitriadis P.; Ioannidis R.; Benekos I.; Iliopoulou T.; Kitsou O.; Mamassis N.; Koutsoyiannis D.; Sargentis G.-F. <a href="#">Documenting the Changing Floodplain of Nileas Basin in North Euboea (Greece) before and after Storms Daniel and Elias</a> . <i>Rural and Regional Development</i> . 2024; 2(3):10013. <a href="https://doi.org/10.35534/rrd.2024.10013">https://doi.org/10.35534/rrd.2024.10013</a>
22.	Sargentis G.-F.; Kougkia M. <a href="#">Vulnerabilities of water-energy and food nexus in cities of digital era</a> . <i>Insight - Civil Engineering</i> . 2024; 7(1): 608. <a href="https://doi.org/10.18282/ice.v7i1.608">https://doi.org/10.18282/ice.v7i1.608</a>
23.	Sargentis G.-F.; Mamassis N.; Kitsou O.; Koutsoyiannis D. <a href="#">The role of technology in the water–energy–food nexus. A case study: Kerinthos, North Euboea, Greece</a> . <i>Front. Water</i> 6:1343344. 2024 <a href="https://doi.org/10.3389/frwa.2024.1343344">https://doi.org/10.3389/frwa.2024.1343344</a>
24.	Wang, N.; Sun, F.; Koutsoyiannis, D.; Iliopoulou, T.; Wang, T.; Wang, H.; Liu, W.; Sargentis,G.-F.; Dimitriadis, P. <a href="#">How can changes in the human-flood distance mitigate flood fatalities and displacements?</a> <i>Geophysical Research Letters</i> , 50, 2023. e2023GL105064. <a href="https://doi.org/10.1029/2023GL105064">https://doi.org/10.1029/2023GL105064</a>
25.	Sargentis, G.-F.; Koutsoyiannis, D. <a href="#">The Function of Money in Water–Energy–Food and Land Nexus</a> . <i>Land</i> 2023, 12, 669. <a href="https://doi.org/10.3390/land12030669">https://doi.org/10.3390/land12030669</a>
26.	Markantonis, D.; Sargentis, G.-F.; Dimitriadis, P.; Iliopoulou, T.; Siganou, A.; Moraiti, K.; Nikolinakou, M.; Meletopoulos, I.T.; Mamassis, N.; Koutsoyiannis, D. <a href="#">Stochastic Evaluation of the Investment Risk by the Scale of Water Infrastructures—Case Study: The Municipality of West Mani (Greece)</a> . <i>World</i> 2023, 4, 1-20. <a href="https://doi.org/10.3390/world4010001">https://doi.org/10.3390/world4010001</a>
27.	Iliopoulou, T.; Dimitriadis, P.; Siganou, A.; Markantonis, D.; Moraiti, K.; Nikolinakou, M.; Meletopoulos, I.T.; Mamassis, N.; Koutsoyiannis, D.; Sargentis, G.-F. <a href="#">Modern Use of Traditional Rainwater Harvesting Practices: An Assessment of Cisterns’ Water Supply Potential in West Mani, Greece</a> . <i>Heritage</i> 2022, 5, 2944-2954. <a href="https://doi.org/10.3390/heritage5040152">https://doi.org/10.3390/heritage5040152</a>
28.	Sargentis, G.-F.; Lagaros, N.D.; Cascella, G.L.; Koutsoyiannis, D. <a href="#">Threats in Water–Energy–Food–Land Nexus by the 2022 Military and Economic Conflict</a> . <i>Land</i> 2022, 11, 1569. <a href="https://doi.org/10.3390/land11091569">https://doi.org/10.3390/land11091569</a>

29.	Sargentis, G.-F.; Koutsoyiannis, D.; Angelakis, A.; Christy, J.; Tsonis, A.A. <a href="#">Environmental Determinism vs. Social Dynamics: Prehistorical and Historical Examples</a> . <i>World</i> 2022, 3, 357-388. <a href="https://doi.org/10.3390/world3020020">https://doi.org/10.3390/world3020020</a>
30.	Sargentis, G.-F.; Defteraios, P.; Lagaros, N.D.; Mamassis, N. <a href="#">Values and Costs in History: A Case Study on Estimating the Cost of Hadrianic Aqueduct's Construction</a> . <i>World</i> 2022, 3, 260-286. <a href="https://doi.org/10.3390/world3020014">https://doi.org/10.3390/world3020014</a>
31.	Sargentis, G.-F.; Ioannidis, R.; Bairaktaris, I.; Frangedaki, E.; Dimitriadis, P.; Iliopoulou, T.; Koutsoyiannis, D.; Lagaros, N.D. <a href="#">Wildfires vs. Sustainable Forest Partitioning</a> . <i>Conservation</i> 2022, 2, 195-218. <a href="https://doi.org/10.3390/conservation2010013">https://doi.org/10.3390/conservation2010013</a>
32.	Ioannidis, R.; Sargentis, G.-F.; Koutsoyiannis, D. <a href="#">Landscape design in infrastructure projects - is it an extravagance? A cost-benefit investigation of practices in dams</a> , <i>Landscape Research</i> , 2022. <a href="https://doi.org/10.1080/01426397.2022.2039109">https://doi.org/10.1080/01426397.2022.2039109</a>
33.	Sargentis, G.-F.; Frangedaki, E.; Chiotinis, M.; Koutsoyiannis, D.; Camarinopoulos, S.; Camarinopoulos, A.; Lagaros, N.D. <a href="#">3D Scanning/Printing: A Technological Stride in Sculpture</a> . <i>Technologies</i> 2022, 10, 9. <a href="https://doi.org/10.3390/technologies10010009">https://doi.org/10.3390/technologies10010009</a>
34.	Koutsoyiannis, D.; Sargentis, G.-F. <a href="#">Entropy and Wealth</a> . <i>Entropy</i> 2021, 23, 1356. <a href="https://doi.org/10.3390/e23101356">https://doi.org/10.3390/e23101356</a>
35.	Sargentis, G.-F.; Siamparina, P.; Sakki, G.-K.; Efstratiadis, A.; Chiotinis, M.; Koutsoyiannis, D. <a href="#">Agricultural Land or Photovoltaic Parks? The Water–Energy–Food Nexus and Land Development Perspectives in the Thessaly Plain, Greece</a> . <i>Sustainability</i> 2021, 13, 8935. <a href="https://doi.org/10.3390/su13168935">https://doi.org/10.3390/su13168935</a>
36.	Dimitriadis, P.; Iliopoulou, T.; Sargentis, G.-F.; Koutsoyiannis, D. <a href="#">Spatial Hurst–Kolmogorov Clustering</a> . <i>Encyclopedia</i> 2021, 1, 1010-1025. <a href="https://doi.org/10.3390/encyclopedia1040077">https://doi.org/10.3390/encyclopedia1040077</a>
37.	Sargentis, G.-F.; Iliopoulou, T.; Dimitriadis, P.; Mamassis, N.; Koutsoyiannis, D. <a href="#">Stratification: An Entropic View of Society's Structure</a> . <i>World</i> 2021, 2, 153-174. <a href="https://doi.org/10.3390/world2020011">https://doi.org/10.3390/world2020011</a>
38.	Sargentis, G.-F.; Dimitriadis, P.; Iliopoulou, T.; Koutsoyiannis, D. <a href="#">A Stochastic View of Varying Styles in Art Paintings</a> . <i>Heritage</i> 2021, 4, 333-348. <a href="https://doi.org/10.3390/heritage4010021">https://doi.org/10.3390/heritage4010021</a>
39.	Sargentis, G.-F.; Ioannidis, R.; Iliopoulou, T.; Dimitriadis, P.; Koutsoyiannis, D. <a href="#">Landscape Planning of Infrastructure through Focus Points' Clustering Analysis. Case Study: Plastiras Artificial Lake (Greece)</a> . <i>Infrastructures</i> 2021, 6, 12. <a href="https://doi.org/10.3390/infrastructures6010012">https://doi.org/10.3390/infrastructures6010012</a>
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46.	Ioannidis, R.; Dimitriadis, P.; Meletopoulos, I. T.; Koutsoyiannis, D. <a href="#">Investigating the spatial characteristics of GIS visibility analyses and their correlation to visual impact perception with stochastic tools</a> , European Geosciences Union General Assembly 2020, Geophysical Research Abstracts, Vol. 22, Online, EGU2020- 18212, <a href="https://doi.org/10.5194/egusphere-egu2020-18212">https://doi.org/10.5194/egusphere-egu2020-18212</a> , European Geosciences Union, 2020.
47.	Frangedaki, E.; Gao, X.; Lagaros, N. D.; Briseghella, B.; Marano, G. C.; Sargentis, G.-F.; Meimaroglou, N. Fujian Tulou Rammed Earth Structures: Optimizing Restoration Techniques Through Participatory Design and Collective Practices, <i>International Conference on Optimization-Driven Architectural Design (OPTARCH2019)</i> Jordan, 2019.
48.	Sargentis, G.-F.; Dimitriadis, P.; Ioannidis, R.; Iliopoulou, T.; Frangedaki, E.; Koutsoyiannis, D. Optimal utilization of water resources for local communities in mainland Greece (case study of Karyes, Peloponnese, <i>International Conference on Optimization-Driven Architectural Design (OPTARCH2019)</i> Jordan, 2019.
49.	Sargentis, G.-F.; Frangedaki, E.; Dimitriadis, P.; Koutsoyiannis, D. <a href="#">Development of a web platform of knowledge exchange for optimal selection of building materials based on ecological criteria</a> , European Geosciences Union General Assembly 2019, Geophysical Research Abstracts, Vol. 21, Vienna, EGU2019-10395, European Geosciences Union, 2019.
50.	Frangedaki, E.; Sargentis, G.-F. <a href="#">Optimizing engineering aspects of earth constructions. The earth as "common" material</a> , European Geosciences Union General Assembly 2019, Geophysical Research Abstracts, Vol. 21, Vienna, EGU2019-11412-1, European Geosciences Union, 2019.
51.	Sako, M.; Tsoi, E.; Ioannidis, R.; Frangedaki, E.; Sargentis, G.-F.; Koutsoyiannis, D. <a href="#">Optimizing the size of Hilarion dam with technical, economic and environmental parameters</a> , European Geosciences Union General Assembly 2019, Geophysical Research Abstracts, Vol. 21, Vienna, EGU2019-15297, European Geosciences Union, 2019.
52.	Ioannidis, R.; Dimitriadis, P.; Sargentis, G.-F.; Frangedaki, E.; Iliopoulou, T.; Koutsoyiannis, D. <a href="#">Stochastic similarities between hydrometeorological and art processes for optimizing architecture and landscape aesthetic parameters</a> , European Geosciences Union General Assembly 2019, Geophysical Research Abstracts, Vol. 21, Vienna, EGU2019-11403, European Geosciences Union, 2019.
53.	Sargentis, G.-F.; Dimitriadis, P.; Iliopoulou, T.; Ioannidis, R.; Koutsoyiannis, D. <a href="#">Stochastic investigation of the Hurst-Kolmogorov behaviour in arts</a> , European Geosciences Union General Assembly 2018, Geophysical Research Abstracts, Vol. 20, Vienna, EGU2018-17082, European Geosciences Union, 2018.

54.	Sargentis, G.-F.; Ioannidis, R.; Karakatsanis, G.; Koutsoyiannis, D. <a href="#">The scale of infrastructures as a social decision. Case study: dams in Greece</a> , <i>European Geosciences Union General Assembly 2018</i> , Geophysical Research Abstracts, Vol. 20, Vienna, EGU2018-17082, European Geosciences Union, 2018.
55.	Sargentis, G.-F.; Symeonidis V.; Symeonidis, N. <a href="#">Rules and methods for the development of a prototype landscape (Almyro) in North Evia by the creation of a thematic park</a> , <i>12th International Conference on Environmental Science and Technology</i> , Rhodes island, Department of Environmental Studies, University of the Aegean, 2011.
56.	Sargentis, G.-F.; Symeonidis, N.; Xanthopoulos, Th. <a href="#">Issues for environmental education by the creation of a prototype temporary children's community</a> , <i>12th International Conference on Environmental Science and Technology</i> , Rhodes island, Department of Environmental Studies, University of the Aegean, 2011.
57.	Sargentis, G.-F.; Chatzimpiros A.; Symeonidis, N. <a href="#">Determination method of thermal conductivity of building parts in situ through ir imaging by minimizing the influence of environmental parameters</a> , <i>11th International Conference on Environmental Science and Technology</i> , Crete, Department of Environmental Studies, University of the Aegean, 2009.
58.	Sargentis, G.-F.; Kapsalis V. C.; Symeonidis, N. <a href="#">Earth building. models, technical aspects, tests and environmental evaluation</a> , <i>11th International Conference on Environmental Science and Technology</i> , Crete, Department of Environmental Studies, University of the Aegean, 2009.
59.	Σαργέντης, Γ.-Φ., Μ. Κούγκια και Δ. Κοπανά, <a href="#">Τα στοιχεία που θάψαμε, όλη αυτή η Φύση μας, αλυχτά το αέριο κάλεσμά της</a> , <i>1η Επιστημονική Διημερίδα με θέμα τον Κηφισό</i> , Εθνικό Μετσόβιο Πολυτεχνείο, Αθήνα 2008.
60.	Sargentis, G.-F.; Bartsioika, K.; Symeonidis, N.; Hadjibiros, K. <a href="#">Evaluation method regarding the effect of building design in the context of sustainable development</a> , <i>10th International Conference on Environmental Science and Technology</i> , Kos island, Department of Environmental Studies, University of the Aegean, 2007.
61.	Chatzimpiros, P.; Lagos, G.; Sargentis, G.-F. <a href="#">Man and City. Myth and vision</a> , <i>10th International Conference on Environmental Science and Technology</i> , Kos island, Department of Environmental Studies, University of the Aegean, 2007.
62.	Sargentis, G.-F., K. Hadjibiros, I. Papagiannakis and E. Papagiannakis, <a href="#">Plastiras Lake: influence of the relief on the revelation of the water presence</a> , <i>9th International Conference on Environmental Science and Technology</i> , Rhodes island, Department of Environmental Studies, University of the Aegean, 2005.
63.	Sargentis, G.-F.; Hadjibiros, K.; Christofides, A. <a href="#">Plastiras Lake: the impact of water level on the aesthetic value of the landscape</a> , <i>9th International Conference on Environmental Science and Technology</i> , Rhodes island, Department of Environmental Studies, University of the Aegean, 2005.
64.	Hadjibiros, K.; Katsiri, A.; Andreadakis, A.; Koutsoyiannis, D.; Stamou, A.; Christofides, A.; Efstratiadis A.; Sargentis, G.- F. <a href="#">Multi-Criteria Reservoir Water Management</a> , <i>9th International Conference on Environmental Science and Technology</i> , Rhodes island, Department of Environmental Studies, University of the Aegean, 2005.
65.	Efstratiadis, A.; Koutsoyiannis, D.; Hadjibiros, K.; Andreadakis, A.; Stamou, A.; Katsiri, A.; Sargentis, G.-F.; Christofides, A. <a href="#">A multicriteria approach for the sustainable management of the Plastiras reservoir</a> , Greece, <i>EGS-AGU-EUG Joint Assembly</i> , Geophysical Research Abstracts, Vol. 5, Nice, European Geophysical Society, 2003.
66.	Hadjibiros, K.; Koutsoyiannis, D.; Katsiri, A.; Stamou, A.; Andreadakis, A.; Sargentis, G.-F.; Christofides, A.; Efstratiadis, A.; Valassopoulos, A. <a href="#">Management of water quality of the Plastiras reservoir</a> , <i>4th International Conference on Reservoir Limnology and Water Quality</i> , Ceske Budejovice, Czech Republic, 2002.

## CHAPTERS IN BOOKS

1.	Sargentis, G.-F. et al. (2025). <a href="#">Do Floods Attack Cities or Cities Invade Flood Plains? Case Study: Athens, Greece</a> . In: Lagaros, N.D., Alrousan, R.Z., Abdalla, K.M., Phocas, M.C., Marano, G.C. (eds) Proceedings of the International Conferences on Digital Technology Driven Engineering 2024. OPT-ii 2024. Lecture Notes in Civil Engineering, vol 647. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-92044-8_21">https://doi.org/10.1007/978-3-031-92044-8_21</a> .
2.	Sargentis, G.-F.; Frangedaki, E.I.; Iliopoulou, T.; Dimitriadis, P.; Voulgaris, S.; Alexandridou, A.; Lagaros, N.D. (2025). <a href="#">The Use of 3D Printed Models of the Landscape in Hydraulic Studies</a> . In: Lagaros, N.D., Alrousan, R.Z., Abdalla, K.M., Phocas, M.C., Marano, G.C. (eds) Proceedings of the International Conferences on Digital Technology Driven Engineering 2024. OPTARCH 2024. Lecture Notes in Civil Engineering, vol 650. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-92754-6_29">https://doi.org/10.1007/978-3-031-92754-6_29</a> .
3.	Sargentis, G.-F.; Frangedaki, E.I.; Iliopoulou, T.; Dimitriadis, P.; Voulgaris, S.; Lagaros, N.D. (2025). <a href="#">Fast-Track Modeling of the Landscape for Hydraulic Studies, Using Drones and Photogrammetry in Field Research</a> . In: Lagaros, N.D., Triantafyllou, S.P., Alrousan, R.Z., Alhassan, M.A., Abdalla, K.M. (eds) Proceedings of the International Conferences on Digital Technology Driven Engineering 2024. ADDOPTML 2024. Lecture Notes in Civil Engineering, vol 646. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-92029-5_22">https://doi.org/10.1007/978-3-031-92029-5_22</a> .
4.	Sargentis, G.-F.; Kougia, M.; Lagaros, N.D. (2025). <a href="#">Bridging Traditional Sculpture Methods with 3D Scanning/Printing</a> . In: Lagaros, N.D., Triantafyllou, S.P., Alrousan, R.Z., Alhassan, M.A., Abdalla, K.M. (eds) Proceedings of the International Conferences on Digital Technology Driven Engineering 2024. ADDOPTML 2024. Lecture Notes in Civil Engineering, vol 646. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-92029-5_21">https://doi.org/10.1007/978-3-031-92029-5_21</a> .
5.	Sargentis, G.-F. et al. (2025). <a href="#">The Technological Evolution in Flood Risk Estimation</a> . In: Lagaros, N.D., Alrousan, R.Z., Abdalla, K.M., Phocas, M.C., Marano, G.C. (eds) Proceedings of the International Conferences on Digital Technology Driven Engineering 2024. OPT-ii 2024. Lecture Notes in Civil Engineering, vol 647. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-92044-8_22">https://doi.org/10.1007/978-3-031-92044-8_22</a> .
6.	Koutsoyiannis, D. and G.-F. Sargentis, <a href="#">Market Empire Dead End</a> , <i>Reflections Without Custody – In Memory of Themistocles Xanthopoulos, NTUA Rector 1997-2003</i> , edited by D. Koutsoyiannis, N. D. Lagaros, and A.G. Boudouvis, 99–123, National Technical University of Athens Press – National Technical University of Athens, Athens, 2024.
7.	Sargentis, G.-F.; Ioannidis R.; Chiotinis M.; Dimitriadis P.; Koutsoyiannis D. <a href="#">Aesthetical Issues with Stochastic Evaluation</a> . <i>Data Analytics for Cultural Heritage</i> , Belhi A., Bouras A., Al-Ali A.K., Sadka A.H. (eds). Springer, Cham 2021. <a href="https://doi.org/10.1007/978-3-030-66777-1_8">https://doi.org/10.1007/978-3-030-66777-1_8</a>

## ACCADEMIC EDITOR

1. *Land-MDPI* (IF 3.2): Water-Energy-Food Nexus for Sustainable Land Management [https://www.mdpi.com/journal/land/special\\_issues/WEF\\_nexus\\_land](https://www.mdpi.com/journal/land/special_issues/WEF_nexus_land)
2. *Water-MDPI* (IF 3): Challenges and Innovations in Resilience of the Water-Energy-Food Nexus [https://www.mdpi.com/journal/water/special\\_issues/4A61I4FZD5](https://www.mdpi.com/journal/water/special_issues/4A61I4FZD5)
3. *Frontiers in Complex Systems*: Complexity and Its Implications for Society: Strategies for Management and Resilience <https://www.frontiersin.org/research-topics/69484/complexity-and-its-implications-for-society-strategies-for-management-and-resilience>
4. *Frontiers in Built Environment* (IF 2.2): Advances in Urban Flood Studies: Modeling, Monitoring, Strategic Planning, and Lessons Learned <https://www.frontiersin.org/research-topics/69932/advances-in-urban-flood-studies-modeling-monitoring-strategic-planning-and-lessons-learned>
5. *Water-MDPI* (IF 3): Water–Energy–Food Nexus: Tools and Strategies for Resilient Growth [https://www.mdpi.com/journal/water/special\\_issues/VIW6MIIT49](https://www.mdpi.com/journal/water/special_issues/VIW6MIIT49)

## OTHER PUBLICATIONS

1.	Sargentis G.-F.: " <a href="#">The synergies of the water-energy and food nexus</a> " Agrenda 1033, August 2025.
2.	Sargentis G.-F. and S. Sigourou: " <a href="#">Multiparametric Risk Assessment of Floods. High Spatial Resolution Management Planning in Attica.</a> " <i>KTIRIO</i> 5/2024, 22-23, 2024.
3.	Sargentis G.-F., E. Frangedaki, H.T. Meletopoulos, N. Kallioras, N. Lagaros: " <a href="#">3D Printing Constructions. Innovative Technological Capabilities in the Construction Industry.</a> " <i>KTIRIO</i> 6/2022, 99-106, 2022.
4.	Sargentis G.-F. and N. Mamas: " <a href="#">Water Collection in Complexes &amp; Residences – Design for Small Scales.</a> " <i>KTIRIO</i> 6/2021, 75–80, 2021.
5.	Sargentis, G.-F.; Frangedaki, E.; Cascella, G. L.; Dimitriadis, P.; Ioannidis, R.; Iliopoulou, T.; Spinelli, M. <a href="#">Optimizing technical decisions with a web platform, Case study: methods &amp; criteria of assessing building materials to optimize selection in terms of eco-behavior</a> , IDEA75, <i>Optimization Driven Architectural Design of Structures</i> , "OPTARCH" (No: 689983), Bari 2019.
6.	Frangedaki E., G.-F. Sargentis, A. Mousourakis: " <a href="#">Building with Unfired Earth: Technical Applications and Contemporary Examples.</a> " Technical Journal <i>KTIRIO</i> , September 2019.
7.	Frangedaki, E.; Cascella, G. L.; Sargentis, G.-F.; Katavoutas, K. <a href="#">OPTIMIZATION IN ENGINEERING ASPECTS OF CONSTRUCTIONS WITH EARTH BY LABORATORY TESTS. A proposed methodology for the proper soil. Examples of modern houses built with earth in Greece</a> , IDEA75, <i>Optimization Driven Architectural Design of Structures</i> , "OPTARCH" (No: 689983), Bari 2019.
8.	Sargentis G.-F.: " <a href="#">Embedded Energy: The Material as an Energy Storage.</a> " Technical Journal <i>KTIRIO</i> , June 2014.
9.	Sargentis G.-F.: " <a href="#">Contemporary 'Low Tech' Facades for Low Technological Requirements Architecture.</a> " <i>KTIRIO</i> Publications EP, Thessaloniki, 2013.
10.	Sargentis G.-F.: " <a href="#">Low Tech Architecture: Technological Edge or Edge of Technique?</a> " Technical Journal <i>KTIRIO</i> , January-February 2012.
11.	Sargentis G.-F.: " <a href="#">Selection of Building Materials with Ecological Criteria.</a> " Technical Journal <i>KTIRIO</i> , April 2011.
12.	Sculpture Exhibition "The Awakening of the Myth." <i>TEE</i> Issue 2446, pp. 61, 2007
13.	Koronaos Aim., G.-F. Sargentis: " <a href="#">Hercules of Farnese.</a> " <i>Laboratory of Building Materials</i> NTUA, Athens, 2005.
14.	Koronaos Aim., G.-F. Sargentis: " <a href="#">Casting of the Bust of Prof. A. Prokopiou.</a> " <i>Laboratory of Building Materials</i> NTUA, Athens, 2005.
15.	Sargentis G.-F.: " <a href="#">Dead Time</a> " <i>New Politics</i> . Papazisis Publications, October 2005.
16.	Sargentis G.-F.: " <a href="#">Big Projects or Towers of Babel?</a> " <i>New Politics</i> , Papazisis Publications, November 2005.
17.	Sargentis G.-F.: " <a href="#">Decriminalization of Choice.</a> " <i>New Politics</i> , Papazisis Publications, December 2005.
18.	"November Uprising and the Other Long and Valuable History of NTUA." <i>TEE</i> Issue 2367, pp. 8-13, 2005.
19.	Koronaos Aim., G.-F. Sargentis: " <a href="#">Thermal Behavior of Buildings at TPPL.</a> " <i>Laboratory of Building Materials</i> NTUA, Athens, 2003.
20.	Koronaos Aim., G. Poulakos, G.-F. Sargentis: " <a href="#">Assessment of the Behavior of the Cover Plate of the Plazas in the Zografou Polytechnic Campus Against Rainwater.</a> " <i>Laboratory of Building Materials</i> NTUA, Athens, 2003.

## EDUCATIONAL BOOKS & NOTES

1.	Sargentis G.-F.: " <a href="#">Mechanical-Environmental Behavior and Applications of Earth as Building Material.</a> " <i>SADAS-PEA: 13<sup>th</sup> Weekly Workshop – Seminar "Natural Building and Alternative Approach to Restoration,"</i> Stournas Guesthouse, Other Side of Volos, May 26 – June 1, 2018.
2.	Sargentis G.-F.: " <a href="#">Eco-Materials: Methods and Criteria for Assessing the Ecological Behavior of Building Materials.</a> " <i>SADAS-PEA: 13<sup>th</sup> Weekly Workshop – Seminar "Natural Building and Alternative Approach to Restoration,"</i> Stournas Guesthouse, Other Side of Volos, May 26 – June 1, 2018.
3.	Sargentis G.-F.: " <a href="#">Criteria, Methodology &amp; Evaluation of the Ecological Behavior of Materials.</a> " <i>School of Architecture, Laboratory of Technical Materials</i> NTUA, Athens, 2015.
4.	Sargentis G.-F., N. Symeonidis: " <a href="#">Designs for the Earth.</a> " <i>Eco-dome (non-profit organization for sustainable architecture)</i> , Athens, 2010.

5.	Sargentis G.-F., N. Symeonidis: " <a href="#">The Earth as a Material.</a> " <i>Eco-dome (non-profit organization for sustainable architecture)</i> , Athens, 2010.
6.	Koronaïos A., G.-F. Sargentis: "Building Materials and Ecology." <i>Laboratory of Building Materials, School of Architecture, NTUA</i> , Athens, 2005.
7.	Mamais D., G.-F. Sargentis: " <a href="#">Notes for the Course Ecology for Engineers: Applications of Ecological Principles in Urban Planning.</a> " <i>Department of Water Resources, Hydraulic and Maritime Engineering, School of Civil Engineering, NTUA</i> , Athens, 2003.
8.	Koronaïos A., G.-F. Sargentis: " <a href="#">Thermography.</a> " <i>Laboratory of Building Materials, School of Architecture, NTUA</i> , Athens, 2003.

#### SCULPTURE, SELECTED EXHIBITIONS (Posters)

2023	" <a href="#">Too many Don Quixotes but only one wind mill</a> ," Vitrina Art Space, Heraklion, Crete.
2009	"Architecture with the Earth: Rules and Models" in the framework of the 11th International Conference on Environmental Science and Technology.
2009	"Sculpture-Photography and Games for the Net," Gallery Cafe Plaka, Athens.
2008	"Friends I Would Like to Drink Together," Surf Cafe, Lavrio.
2008	"The Elements We Buried: All This Nature of Ours Unbows Its Perpetual Calling," NTUA.
2007	"Man and City: Myth and Vision" within the framework of the 10th International Conference on Environmental Science and Technology.
2007	"The Awakening of the Myth," Amoiradakeio Megaron, Ios.
2000	"Creations," Art Space Kori, Plaka, Athens.
1998	"Icarus," Poseidonia, Piraeus.
1995	"Forms," Cultural Center of the Municipality of Galatsi, Athens.

#### MONOGRAPHS

G.-F. Sargentis, <a href="#">Sculpture, Catalogue of selected artworks</a> , 2023
G.-F. Sargentis, <a href="#">Catalogue of religious sculpture projects</a> , 2021
G.-F. Sargentis: " <a href="#">GENESIS: The Game of Man in the World</a> ," 2009.
G.-F. Sargentis: " <a href="#">Tools</a> ," 2007.
G.-F. Sargentis: " <a href="#">Sculpture and Bronze Casting</a> ," 2006.
G.-F. Sargentis, Yiannis Drakopoulos: " <a href="#">Written Messages</a> ," 2005.
G.-F. Sargentis: " <a href="#">Sculpture</a> ," 2004.
G.-F. Sargentis: " <a href="#">Why We Smoke as We Smoke the Pipes</a> ," 2002.
G.-F. Sargentis: " <a href="#">The Engineer and Nature</a> ," 2001.

## OTHER DATA & ACTIVITIES

LANGUAGES:	Greek, English, Italian
1999-2000	MILITARY SERVICE, Navy.

## INTERESTS

Bicycling, historic cars, sea aquarium, mountaineering (EOS Athens, EOS Acharnes), sailing (POIATH sailing school: 108/98//18-11-1994), drones (certificate of pilot proficiency A1-A2-A3), swimming activities at sea (all year round).
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## COLLECTIVE ACTIVITIES

2002- 2006	Representative of PhD candidates in the School of Architecture, NTUA.
1992-1997	Representative of students in the School of Civil Engineering, NTUA.