

ALLEGATO II

Elenco delle pubblicazioni presentate datato e firmato (n = 12)

Consapevole delle responsabilità penali previste dagli artt. 75 e 76 del D.P.R. n.445/2000 per le ipotesi di falsità in atti e dichiarazioni mendaci

DICHIARA

1	che la copia della seguente pubblicazione: Kaffas , K., Pisinaras, V., Al Sayah, M.J., Santopietro, S., Righetti, M. (2021). A USLE-based model with modified LS-factor combined with sediment delivery module for Alpine basins. <i>Catena</i> , 207. Doi: 10.1016/j.catena.2021.105655, edita da Elsevier, Amsterdam (NL), va da pagina 1 a pagina 17 e quindi composta di n. 17 fogli è conforme all'originale; pubblicata: 18.08.2021.
2	che la copia della seguente pubblicazione: Kaffas , K., Hrissanthou, V. (2019). Computation of Hourly Sediment Discharges and Annual Sediment Yields by Means of two Soil Erosion Models in a Mountainous Basin. <i>International Journal of River Basin Management</i> , 17. Doi: 10.1080/15715124.2017.1402777, edita da Springer, Oxfordshire (UK), va da pagina 63 a pagina 77 e quindi composta di n. 15 fogli è conforme all'originale; pubblicata: 25.10.2017.
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12	che la copia della seguente pubblicazione: Vakalis, S., Kaffas , K., Moustakas, K. (2020). The water-energy-climate nexus concept of “Hydrobattery”: Storing excess Variable Renewable Energy (VRE) at the Canyon

Ferry Dam. Renewable Energy, 155. Doi: 10.1016/j.renene.2020.03.179, edita da Elsevier, Amsterdam (NL), va da pagina 547 a pagina 554 e quindi composta di n. 8 fogli è conforme all'originale; pubblicata: 01.04.2020.

Luogo e data [Salonicco 21/08/2023](#)

il dichiarante

Konstantinos Kaffas

ALLEGATO I

CURRICULUM VITAE AND ACADEMIC TRACK RECORD

Dr.–Eng. Konstantinos Kaffas

▪ PERSONAL INFORMATION

Specialty: Environmental Engineer – Hydrology, Soil Erosion, Sediment Transport

Total number of citations, h-index; i10-index: ([Scopus](#); [Google Scholar](#); [ResearchGate](#))

Konstantinos Kaffas is an Environmental Engineer with postgraduate studies in Hydraulic Engineering and Water Resources Management. He holds a PhD in the field of hydromorphological study and modeling at the basin scale and has worked as a lecturer in the Department of Civil Engineering of the Democritus University of Thrace (DUTH). He has done research on his subject and has published and reviewed many articles in international scientific journals and conferences. Since 2008 he is a regular member of the Technical Chamber of Greece (TEE) and holds a Professional Engineer's License. He has gained work experience working as an Environmental/Civil Engineering consultant. For the last four years, Konstantinos has been working as a Postdoctoral Researcher in Italy, where he has been involved in five research projects. His latest collaboration is with the University of Florence, working as a Postdoctoral Researcher on surface and ground hydrology in the Department of Agriculture, Food, Environment and Forestry.

▪ EDUCATION

2012–2017	PhD in Engineering Hydrology. Hydraulic Engineering Division, Civil Engineering Department, Democritus University of Thrace. Thesis title: "Development of Mathematical Model for Calculating Continuous Hydrographs and Sediment Graphs in a Basin Due to Rainfall". Grade: Excellent unanimously Supervisor: Professor Dr. Vlassios Hrissanthou
2007–2008	MSc in Hydraulic Engineering, Direction of "Water Resource Management Works". Civil Engineering Department, Democritus University of Thrace. Graduation grade: (8.5/10) (Distinction) Relevant modules: Hydraulic Work Fluid Mechanics, Advanced Engineering Hydrology, Advanced Hydrogeology, Implementation of Developmental Methods in Hydrology, Time series Analysis, Reservoir Design, Sediment Transport, Informatics Tools and Applications Thesis title: "Comparison of Calculations and Measurements of Sediment Yield in the Hydrometric Unit Rajdavitzia of Strymonas River". Thesis grade: (10/10)

2001–2007

Diploma and Master (Diploma/Master) in Environmental Engineering.
Environmental Engineering Department, Democritus University of Thrace.

Graduation grade (7.12/10)

Thesis title: “Investigation of Karst Springs of the Hydrogeologic Basin of Paradeisos, Xanthi”.

Thesis grade: (10/10)

■ WORK EXPERIENCE

August 2022–July 2023

Postdoctoral Researcher. Department of Agriculture, Food, Environment and Forestry (DAGRI), University of Florence, Florence-Firenze, Italy.

Research project: Hydrological response of forested catchments during droughts.

Surface and ground hydrology with emphasis on non-sequential and preferential subsurface flows, as well as the response times of soil moisture and ground and surface water levels due to precipitation events.

Scientific Coordinator: Professor Dr. Daniele Penna

April 2022–August 2022

Visiting Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and Maritime Constructions), Faculty of Science and Technology, Free University of Bozen–Bolzano, Italy.

Research project: Techno-economic methodologies to investigate sustainable energy scenarios at urban level.

Development of R code to obtain and export meteorological variables (precipitation and temperature) for historical periods and climate change scenarios. Statistical bias correction of meteorological parameters with measured historical data.

Scientific Coordinator: Professor Dr. Maurizio Righetti

April 2021–March 2022

FUSION GRANT sponsored by Stiftung Südtiroler Sparkasse – Fondazione Cassa di Risparmio, coordinated by NOI Techpark Südtirol/Alto Adige, in collaboration with Südtiroler Wirtschaftsring – Economia Alto Adige (SWREA) and Rete economia Wirtschaftsnetz (RE–WN).

Postdoctoral Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and Maritime Constructions), Faculty of Science and Technology, Free University of Bozen–Bolzano, Italy.

Research project: “BARS, Balancing alpine reservoir sedimentation, sediment management practices and ecological impacts”.

Simulation of soil erosion and sediment transport processes in streams, on continuous and event basis, to investigate the sedimentation rate in reservoirs of hydroelectric dams.

Collaborating Organizations: Alperia S.p.A.

Scientific Coordinator: Professor Dr. Maurizio Righetti

June 2020–November 2020

Postdoctoral Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and Maritime Constructions), Faculty of Science and Technology, Free University of Bozen–Bolzano, Italy.

	<p>Research project: “SEDIPLAN–r, Sediment budgeting and planning for rivers in South–Tyrol: from hazard mitigation to environmental restoration”.</p> <p>Installation of environmental instruments (DS5 multi-sensors), measurement of hydrological and hydraulic parameters, application of hydrological, soil erosion and stream sediment transport models.</p> <p>Project Leaders/Supervisors: Professor Dr. Francesco Comiti, Professor Dr. Maurizio Righetti</p>
June 2019–June 2020	<p>Postdoctoral Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and Maritime Constructions), Faculty of Science and Technology, Free University of Bozen–Bolzano, Italy.</p> <p>Research project: “SEDIPLAN–r, Sediment budgeting and planning for rivers in South–Tyrol: from hazard mitigation to environmental restoration”.</p> <p>Installation of environmental instruments (DS5 multi-sensors), measurement of hydrological and hydraulic parameters, application of hydrological, soil erosion and stream sediment transport models.</p> <p>Development of codes in R and Python for short-term and seasonal meteorological and hydrological forecasts aiming at maximizing profits from hydropower generation. Statistical bias correction of meteorological parameters with measured historical data.</p> <p>Project Leaders/Supervisors: Professor Dr. Francesco Comiti, Professor Dr. Maurizio Righetti</p>
June 2018–June 2019	<p>Postdoctoral Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and Maritime Constructions), Faculty of Science and Technology, Free University of Bozen–Bolzano, Italy.</p> <p>Research project: “MOIEREF, Methods for Optimization and Integration Given Energy Prices and Renewable Resources Forecasts”.</p> <p>Project Leader/Supervisor: Professor Dr. Maurizio Righetti</p>
January–May 2014	<p>Environmental Engineer in Hyetos G.P., Consulting. Department of Environment, Civil/Environmental Engineering. 7, Ippodromiou Square, 54 621, Thessaloniki, Greece.</p> <p>“Environmental Impact Assessments (During the Construction and Operation of: Wastewater Treatment Plants, Highway Works, Pressurized and Gravity Pipe Networks, River Diversion and Canalization of Natural Watercourses, Quarries, and Management of Digging Works Products and Development of Deposition Chambers), Renewal of Environmental Terms, Noise Pollution Assessments from the Operation of Construction Sites”.</p>
June 2013–June 2014	<p>Research Fellow/Project Manager. Special Account for Research Grants, DUTH. Project title: “Calculation of Continuous Hydrographs and Sediment graphs in a Basin”, Civil Engineering Department, Democritus University of Thrace.</p>

■ TEACHING EXPERIENCE

December 2017	<p>University Lecturer by contract, Subjects: Advanced Engineering Hydrology. Postgraduate Program: “Hydraulic Engineering”, Civil Engineering Department, Democritus University of Thrace.</p>
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	Teaching Subjects: "Basic Hydrologic Concepts, Hydrologic Cycle, Introduction to HEC–HMS, Assignment: Continuous Hydrologic Simulations at the basin scale with HEC–HMS".
May–June 2017	University Lecturer by contract, Subjects: Reservoir Design . Postgraduate Program: "Hydraulic Engineering", Civil Engineering Department, Democritus University of Thrace.
	Teaching Subjects: "Mathematical Optimization, Linear Programming, Dantzig's Simplex Algorithm, Optimization Techniques for Hydrologic Engineering, Introduction to What's Best! (Lindo Systems), Assignment: Solving Hydrological Optimization Problem".
April–May 2016	University Lecturer by contract, Subjects: Sediment Transport, Reservoir Design . Postgraduate Program: "Hydraulic Engineering", Civil Engineering Department, Democritus University of Thrace.
	Teaching Subjects (Sediment Transport): "Basic Hydraulic Concepts, Types of Flow, Sediment Transport in Streams, Introduction to HEC–RAS, Assignment: Stream Sediment Transport Under Quasi–Unsteady Flow Regime with HEC–RAS".
	Teaching Subjects (Reservoir Design): "Basic Hydrologic Concepts, Hydrologic Cycle, Introduction to HEC–HMS, Assignment: Continuous Hydrologic Simulations at the basin scale with HEC–HMS".
May–June 2015	University Lecturer by contract, Subjects: Reservoir Design . Postgraduate Program: "Hydraulic Engineering", Civil Engineering Department, Democritus University of Thrace.
	Teaching Subjects: "Basic Hydrologic Concepts, Hydrologic Cycle, Introduction to HEC–HMS, Assignment: Continuous Hydrologic Simulations at the basin scale with HEC–HMS".
March–April 2014	University Lecturer by contract, Subjects: Reservoir Design . Postgraduate Program: "Hydraulic Engineering", Civil Engineering Department, Democritus University of Thrace.
	Teaching Subjects: "Basic Hydrologic Concepts, Hydrologic Cycle, Introduction to HEC–HMS, Assignment: Continuous Hydrologic Simulations at the basin scale with HEC–HMS".
January–February 2014	University Lecturer by contract, Subjects: Reservoir Design . Postgraduate Program: "Hydraulic Engineering", Civil Engineering Department, Democritus University of Thrace.
	Teaching Subjects: "Basic Hydrologic Concepts, Hydrologic Cycle, Introduction to HEC–HMS, Assignment: Continuous Hydrologic Simulations at the basin scale with HEC–HMS".

■ CONTINUING EDUCATION

University of Bonn	Research visit for collaboration with Professor Dr. Julian Klaus and his team at the Department of Geography, University of Bonn under a grant from the Finanziamento di Azioni di Internazionalizzazione (FAI) competition of the University of Florence, 3–7 April 2023, Bonn, Germany. Research topic: Preferential flow and hydrological response of forested catchments.
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University of Trento	Successfully attended the short course “Geostatistics”, given by Professors Alberto Bellin, Bruno Majone, Alessandra Marzadri, University of Trento, 4–8 February 2019, Trento, Italy.
Vocat. Train. Center IDEA	Successfully attended the short course “Permanent Buildings Energy Inspectors”, Vocational Training Center IDEA, 15 October 2013–11 November 2013, Thessaloniki, Greece.
Vocat. Train. Center IDEA	Successfully attended the short course “Energy Management – Renewable Energy Sources”, Vocational Training Center IDEA, 27 August 2013–9 September 2013, Thessaloniki, Greece.
University of Stuttgart	Successfully attended the short course “Sediment Transport and GSTARS Computer Modeling”, given by Professor Chin Ted Yang from Colorado State University, University of Stuttgart, 8–12 November 2010, Stuttgart, Germany.

▪ LANGUAGE SKILLS

Greek	Mother Tongue
English	2012 International English Language Testing System (IELTS) (Grade 7)
	2009 State Certificate of Foreign Language Certificate (Level C1, English Language)
Italian	A2 level

▪ EDITORSHIPS

Topic "Advances in River Engineering", Energies, Hydrology, Land, Remote Sensing, Water MDPI. Editors: Professor Vlassios Hrissanthou, Professor Mike Spiliotis, **Dr. Konstantinos Kaffas**. website: <https://www.mdpi.com/topics/9LC3P5IML6>

Special Issue "Advances in Catchments Hydrology and Sediment Dynamics", Hydrology MDPI. Editors: **Dr. Konstantinos Kaffas**, Dr. Giuseppe Roberto Pisaturo, Professor Vlassios Hrissanthou. website: https://www.mdpi.com/journal/hydrology/special_issues/X2C56DWR5K

Soil Erosion – Rainfall Erosivity and Risk Assessment, Editors: Prof. Vlassios Hrissanthou, **Dr. Konstantinos Kaffas**, InTech, ISBN: 978–1–78985–196–0, 2019.
doi: 10.5772/intechopen.74884

▪ CONVENER IN INTERNATIONAL CONFERENCES

- Title of Special Session: Sediment Budgeting: From Basin to Streams, Conveners: **Dr. Konstantinos Kaffas**, Prof. Vlassios Hrissanthou, 7th IAHR European Congress, 7–9 September 2022, Athens, Greece.

▪ REVIEWER IN INTERNATIONAL SCIENTIFIC JOURNALS

Water Resources Management (SPRINGER); CATENA (ELSEVIER); Environmental Earth Sciences (SPRINGER); Environmental Processes (SPRINGER); Water (MDPI); Forests (MDPI); Agronomy (MDPI); Land (MDPI); Journal of Hydroinformatics (IWA); Geomatics, Natural Hazards and Risk (Taylor & Francis); Sustainability (MDPI); Hydrology (MDPI); Journal of Hydrology (ELSEVIER).

▪ REVIEWER IN PROCEEDINGS OF INTERNATIONAL CONFERENCES

- 7th IAHR European Congress, 7–9 September 2022, Athens, Greece
- 3rd EWaS International Conference, 27–30 June 2018, Lefkada Island, Greece

▪ COMPUTER SKILLS

Operating Systems: Windows

Office: MS Office: Word, Excel, Powerpoint, Access

Programming: R, Python

Designing Programs: AutoCAD 2014

Geographic Information Systems: ArcGIS 10.8, QGIS 3.12, Surfer

Simulation Models: SWAT, HEC-HMS, HYDRUS, BASEMENT, HEC-RAS, FLOW-3D

Meteorological Models: Panoply (netcdf, grb2 viewer)

Computational Programs: Mathematica 8.0, What's Best!

Luogo e data **Salonicco 21/08/2023**

il dichiarante

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