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HAIDU IONEL

PERSONAL INFORMATION



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Research interests: Technical Geography, Hydrology, Climatology, Time Series Analysis

WORK EXPERIENCE

2025 – present	**CSI** – ***Adjunct Research Professor*** at the Institute of Advanced Studies in Science and Technology (STAR-UBB), Babeș-Bolyai University, Cluj-Napoca
2011 – 2026	**Full Professor** at Université de Lorraine (201–300: Shanghai Ranking) Department of Geography and LOTERR-EA7304 Research Laboratory *Courses taught: Climatology – Time Series Analysis, Urban Hydrology, Statistical Hydrology, Climate Change, Environment and Risks*
1987 – 2020	**Babeș-Bolyai University, Cluj-Napoca, Faculty of Geography** 1987 (Assistant), 1990 (Lecturer), 1994 (Associate Professor), **2003 (Full Professor)** 2004–2020: Doctoral Supervisor in Technical Geography and GIS at UBB 2003–2007: Vice-Dean 2007–2011: Director of the Master's Programme in Geomatics *Courses taught: Hydrology, Climatology, Remote Sensing, GIS, Statistical and Mathematical Methods, Geographical Research Methodology, Geographical Risks*
2009 (2 months) **2003 (2 months)** **2002 (2 months)** **2001 (3 months)**	**Visiting Professor** at Université de Strasbourg (101–151: Shanghai Ranking), Faculty of Geography
2006 – present	**Manager** of the Geographia Technica Association and Editor https://technicalgeography.org/gtassociation/index.htm and https://technicalgeography.org/
1999–2003	**Full Professor** at the University of Oradea, Faculty of Geography *Courses taught: Hydrology, Oceanography, Geoinformatics, Measurements and Calculations in Hydrology and Climatology.*
1995–1999	**Adjunct Associate Professor** at the Technical University of Civil Engineering Bucharest, Faculty of Hydrotechnics (TEMPUS projects). *Teaching: Postgraduate Programme in Hydrology and Postgraduate Programme in GIS*
1980–1987	Secondary school geography teacher, School No. 15, Cluj-Napoca

EDUCATION AND TRAINING

1995	**Romanian Academy's Simion Mehedinți Prize** for *Assessment of the Natural Hydropower Potential of Small Rivers in the Maramureș and Bucovina Carpathians* (sole author; published in 1993)
1995	**Certificate in Geographic Information Systems:** College of Surveying and Land Management, Szekesfehervar, Hungary, and Clark University, USA **"In 1995, he obtained a Certificate in GIS from the College of Surveying and Land Management in Szekesfehervar, Hungary, delivered in partnership with Clark University (USA)."**

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1992	**M.Sc. in Hydrology:** Interuniversity Postgraduate Programme in Hydrology, Vrije Universiteit Brussels, Faculty of Applied Sciences, Belgium.
	The M.Sc. degree was recognised as equivalent to the **Diploma of Advanced Postgraduate Studies** in Water Resources Engineering, awarded by the Technical University of Civil Engineering Bucharest, Faculty of Hydrotechnics.
1991	**PhD in Geography:** Alexandru Ioan Cuza University of Iași, Faculty of Geography and Geology. Doctoral thesis: *The Natural Hydropower Potential of Small Rivers in the Northern Group of the Eastern Carpathians* (supervisor: Professor Ioan Donisă).
1980	**Bachelor's Degree in Geography and French:** Babeș-Bolyai University, Cluj-Napoca, Faculty of Biology, Geography and Geology
1975	**Baccalaureate Diploma:** Marghita General High School, science stream

TRAINING / FELLOWSHIPS

1996 (Mar.–May)	**TEMPUS II Fellowship**, Université Louis Pasteur de Strasbourg, France, Centre for Ecogeographical Studies and Research
1993 (Sept.–Dec.)	**PECO/COST Fellowship**, Vrije Universiteit Brussels (VUB), Belgium, Department of Hydrology
Sept. 1991–Sept. 1992	**TEMPUS I Fellowship**, Vrije Universiteit Brussels (VUB), Faculty of Applied Sciences, Belgium
1990–1992	**Berkner Fellow** of the American Geophysical Union (http://www.agu.org/)

PROJECTS, GRANTS AND ORGANISATIONAL MANAGEMENT (selection)

- **Principal Investigator**, CNCSIS Type A grant: Development of digital atlases of protected areas, 1997
- **Principal Investigator**, ANSTI Type C grant: Risk of hydroclimatic hazards in the cross-border area of Bihor County, 2000–2001
- **Principal Investigator**, CNCSIS Type A grant: *Development of GIS-based algorithms for the spatial analysis of geographical resources*
- **Principal Investigator**, CNCSIS Type A grant: *How much is the climate changing? Stochastic analysis of proxy and instrumental time series from Europe over the last millennium, 2006–2008.*
- **Principal Investigator**, PN-II-ID-PCE grant: *Mountain settlements threatened by rainfall-driven torrents – a GIS methodology for assessing vulnerability and risk. Applications in the Apuseni Mountains, 2007–2011.*
- **Project Director**, PCSI - AUF / 6316PS823: *Climate change and its impacts on rural life. Training school and support for comparative research* (Romania, France and Madagascar), 2008–2009.
- Member of the international *FOREST@RISK* project: *Climate-driven risks and adaptation measures for European forests* (2018–2022), at the European Commission's Joint Research Centre (JRC) / Directorate D – Sustainable Resources.
- Member of the *RECRET* project: *REconstitution des CRues et des Étiages* (reconstruction of floods and low flows), 2017–present; Université de Lorraine.
- Member of the *BIMA Kemendikbudristek* programme – Department of Mathematics, IPB University, Bogor, Indonesia (2025).

DOCTORAL SUPERVISION

As a doctoral supervisor in ROMANIA, I have supervised 17 theses, including 2 under joint supervision (cotutelle) with France and 1 with Belgium.

As a doctoral supervisor in FRANCE, I have supervised 5 theses, including 2 under joint supervision (cotutelle) with Romania and 1 with Morocco.

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EXPERT / EVALUATOR

- ❖ **I am a member of the CNATDCU Earth Sciences Committee for the 2024–2028 term.**
- ❖ **I am a member of CNCS Specialist Committee No. 11 – Earth and Atmospheric Sciences (since 17 July 2025).**
- ❖ **I am an independent ANC expert in Geography and Environmental Science/Engineering (since 31 July 2025).**

➢ **I served as an expert** on CNCSIS Committee 4, Life and Earth Sciences (until 2010).

➢ **I have served as an expert** for the Agence universitaire de la Francophonie and GACR – Czech Science Foundation, and as an evaluator in France.

- ➢ Member of the *International Association of Hydrological Sciences* (**IAHS**/IUGG), since 1986
- ➢ Member of the *American Geophysical Union* (**AGU**), since 1990
- ➢ Member of the *European Geophysical Union* (**EGU**), since 1991
- ➢ Member of the *International Association of Climatology* (**AIC**, a French-speaking association), since 1996

  From 2003 to 2009, I served on the *AIC Board of Directors*.
- ➢ Member of the *Past Global Changes* (**PAGES**) network, since 2007
- ➢ Member of the *Institute of Electrical and Electronics Engineers – Region 8* (**IEEE**), since 2008
- ➢ Member of the *Infoclimat France* network, since 2017

EDITORIAL ACTIVITIES AND ORGANISATION OF INTERNATIONAL CONFERENCES

***In 2006**, I founded the journal "*Geographia Technica*" https://technicalgeography.org, now one of the most prestigious international geography journals in south-eastern Europe, with a **Clarivate IF of 0.8 and a Q3 classification in SCOPUS**. I have served as **editor and manager** of this self-financing journal for 19 years.

SJR: H-index = 16; **ranked first in Romania** in the "Computers in Earth Sciences" and "Earth-Surface Processes" categories.
https://www.scimagojr.com/journalrank.php?area=1900&country=RO&type=j&category=1903
https://www.scimagojr.com/journalrank.php?area=1900&country=RO&type=j&category=1904

*Wikipedia https://en.wikipedia.org/wiki/Technical_geography#cite_note-Haidu1-1 acknowledges the importance of the 2006 launch of "Geographia Technica" https://en.wikipedia.org/wiki/Geographia_Technica#cite_note-tech1-1, and cites Professor Haidu's contribution in the "**21st century**" section of its "Technical Geography" article. The same article notes that at least **20 universities worldwide** subsequently developed university courses and **academic programmes in technical geography**.

*I also serve on the editorial boards of Studia UBB – Geographia series; Seminarul Geografic "D. Cantemir", Iași, GIS series; Present Environment and Sustainable Development; Air and Water – Components of the Environment; Annales de l'AIC (2004–2009).

*I am a Guest Editor for *Remote Sensing* (IF = 4.2; CiteScore = 8.3).

*I have promoted, and continue to promote, scientific and cultural cooperation with the Republic of Moldova. From **1996** until shortly before my retirement, I served as the Cluj coordinator for the International Symposium on Geographic Information Systems, held annually in rotation in Iași, Chișinău and Cluj-Napoca. The symposium has reached its 29th edition and remains a forum for GIS specialists from Romania, the Republic of Moldova and other countries.

*I was the principal organiser and coordinator of the **International Symposium on Technical Geography**, held on 28–30 May 2008 at the Faculty of Geography in Cluj-Napoca. The event brought together **90 participants** from **10 countries**.

*I was the principal organiser and coordinator of the **22nd Colloquium of the International Association of Climatology**, held on **1–5 September 2009** at the Faculty of Geography in Cluj-Napoca. The event brought together **150 participants** from 21 countries.

Mother tongue	**Romanian**										
Other languages	**Hungarian**										
Self-assessment	**Understanding**				**Speaking**				**Writing**		
	Listening		Reading		Spoken interaction		Spoken production		Writing		
French	C2		C2		C2		C2		C2		
English	B1		B1		B1		B1		B1		

LUCRĂRI ȘTIINȚIFICE/ SCIENTIFIC WORKS
1981 – prezent / to present

Articole științifice indexate în Web of Science/ Scientific articles indexed in Web of Science

Haidu, I. (2026). From *Postfactum* to *Antefactum Geography*: what Artificial Intelligence would have Changed in Seven Earlier Studies - a Retrospective Human–AI Experiment in Technical Geography. *Geographia Technica*, **21**(2), i-xiii. DOI: 10.21163/GT_2026.212.12 , IF=0.8

Setyawati, S.N., Nurdiati, S., Mangku, I.W., Haidu., I & Najib, M.K. (2025). Time-Varying Bivariate Modeling for Predicting Hydrometeorological Trends in Jakarta Using Rainfall and Air Temperature Data. *Hydrology.* **12**(10), 252, https://doi.org/10.3390/hydrology12100252 , IF=3.2

Haidu, I., Magyari-Sáska, Z., & Magyari-Sáska, A. (2025). Spatio-Temporal Gap Filling of Sentinel-2 NDI45 Data Using a Variance-Weighted Kalman Filter and LSTM Ensemble. *Sensors, Special Issue Remote Sensing, Geophysics and GIS*, **25**(17), 5299, https://doi.org/10.3390/s25175299, IF=3.5

Magyari-Sáska, Z., Haidu, I., & Magyari-Sáska, A. (2025). Experimental Comparative Study on Self-Imputation Methods and Their Quality Assessment for Monthly River Flow Data with Gaps: Case Study to Mures River. *Applied Sciences*, **15**(3), 1242. WOS:001418420300001. https://doi.org/10.3390/app15031242 , IF=2.5

El Orfi, T., El Gachi, M., Lebaut, S., Haidu, I. (2025), Monitoring the water surface dynamics of four Mediterranean mountain lakes in the Middle Atlas (Morocco) using Landsat imagery in a global change context. *Journal of Hydrology : Regional Studies*, **60**, August 2025, 102516, WOS:001511026900002. https://doi-org.bases-doc.univ-lorraine.fr/10.1016/j.ejrh.2025.102516 , IF=5.0

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Haidu I., El Orfi T., Magyari-Sáska Z., Lebaut S., El Gachi M. (2024), Modeling the Long-Term Variability in the Surfaces of Three Lakes in Morocco with Limited Remote Sensing Image Sources. *Remote Sensing*, **16 (**17), 3133. https://doi.org/10.3390/rs16173133 , IF=4.2

Haidu I., Ionac N., Irașoc A. (2024), The new climatic normals and their impact on bioclimatic indices. Case study: Oradea (Romania). *Present Environment and Sustainable Development*, **18**(2), 5-19. WOS:001453844500001. https://doi.org/10.47743/pesd2024182001 , IF=0.7

Kovács K.D., Haidu I. (2024), Modeling NO2 air pollution variation during and after COVID-19-regulation using principal component analysis of satellite imagery. *Environmental Pollution,* 342: 122973. WOS: 001129233100001. https://doi.org/10.1016/j.envpol.2023.122973 , IF=8.9

Haidu I. (2024), Geography's Future is Technical. Geographia Technica, **19**(2), i-iv. WOS:001353465000002. https://10.21163/GT_2024.192.23 , IF =0.7

Nyulas J., Dezsi S., Haidu I., Magyari-Saska Z., Nita A. (2024), Attractiveness Assessment Model for Evaluating an Area for a Potential Geopark - Case Study: Hațeg UNESCO Global Geopark (Romania). *Land*, 13: 148. WOS: 001171717300001. https://doi.org/10.3390/land13020148 , IF=3.9

Haidu I., Ciurba (Pastor) A.P., Ianc D., Gaceu O.R. (2023), 75 localities with geothermal water in Bihor County (Romania) and the potential for the sustainability of balneology. *Present Environment and Sustainable Development*, 17(2), 165-187. WOS: 001139584100010. https://doi.org/10.47743/pesd2023172013 , IF=0.7

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Haidu I., Nistor M-M. (2020), Long-term effect of climate change on groundwater recharge in the Grand Est region of France. *Meteorological Applications*, 27(1).
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Ciurba (Pastor) A.P., Haidu I., Sîrbu E., Gavril G.A., Marcu F., Moţofelea A.C., Boca I.C., Ianc D. (2023), The Impact of Mineral Water Balneotherapy on Pain and Physical Function in Patients with Knee Osteoarthritis: A Pilot Study. *Balneo and PRM Research Journal*, 14(4): 597.
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Kovács K.D., Haidu I. (2022), Spatial effect of anti-COVID measures on land surface temperature (LST) in urban areas: A case study of a medium-sized city. *Időjárás*, 126(2), 203-232.
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Kovács K.D., Haidu I. (2021), Effect of Anti-COVID-19 Measures on Atmospheric Pollutants Correlated with the Economies of Medium-sized Cities in 10 Urban Areas of Grand Est Region, France. *Sustainable Cities and Society*, 74: 103173. WOS: 000708516900001. https://doi.org/10.1016/j.scs.2021.103173 IF=11.7

Haidu I., Nistor M-M. (2019), Groundwater vulnerability assessment in the Grand Est region, France. *Quaternary International*. Vol. 547, 86-100, WOS: 000562513800008. https://doi.org/10.1016/j.quaint.2019.07.024 IF=2.2

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Nistor, M-M., Haidu, I., Dezsi, S. & Stefan, C. (2020), A Comprehensive Gridded Dataset Associated to the Climate Change Effect on the Water Resources in the Grand Est Region, France. *Atmosphere*, 11(10), 1026. WOS: 000584136600001. https://doi.org/10.3390/atmos11101026 IF=2.9

Haidu I., Strapazan C. (2019), Flash flood prediction in small to medium-sized watersheds. Case study: Bistra river (Apuseni Mountains, Romania). *Carpathian Journal of Earth and Environmental Sciences*, 14 (2), 439-448. WOS: 000484879700017. DOI:10.26471/cjees/2019/014/093, https://www.cjees.ro/viewTopic.php?topicId=819 IF=1.30

Haidu I., Furtuna P.R., Lebaut S. (2019), *Detection of old scattered windthrow using low-cost resources. The case of Storm Xynthia in the Vosges Mountains, 28 February 2010.*
Open Geosciences, 11(1), 492-504. https://doi.org/10.1515/geo-2019-0040 IF=0.985

Nistor M-M., Nicula A.S., Haidu I., Surdu I., Carebia I.-A., Petrea D. (2019), GIS Integration Model of Metropolitan Area Sustainability Index (MASI). The Case of Paris Metropolitan Area. *Journal of Settlements and Spatial Planning*, 10(1), 39-48. WOS: 000473315100004. https://doi.org/10.24193/JSSP.2019.1.04 IF=0.7

Haidu I., Craciun A.I., Marian R.A. (2019), Risk scenarios for flash-floods in the rural area generated by combined hazard, technologic and natural. *Carpathian Journal of Earth and Environmental Sciences*, 14(1), 81-190. WOS: 000454673000018. DOI: 10.26471/cjees/2019/014/070, https://www.cjees.ro/viewTopic.php?topicId=792 IF=1.30

Furtuna P., Haidu I., Maier N. (2018), Synoptic processes generating windthrows. A case study in the Apuseni mountains (Romania). *Geographia Technica*, 13(2), 52-61.
WOS: 000448465500004. DOI: 10.21163/GT_2018.132.04 , IF=0.7

Haidu I., Batelaan O., Craciun A.I., Dominţa M. (2017), GIS module for the estimation of hillslope torrential peak flow. *Environmental Engineering and Management Journal*, 16(5), 1137-1144. WOS: 000409069600014. DOI: 10.30638/eemj.2017.118, http://www.eemj.icpm.tuiasi.ro/pdfs/vol16/no5/14_572_Haidu_16.pdf IF=1.34

Şarpe C.A., Haidu I. (2017), Temporal sampling conditions in numerical integration of hydrological systems time series. *Geographia Technica*, 12(1), 82-94. WOS: 000406213700009. DOI: 10.21163/GT_2017.121.09 IF=0.7

Korodi E., Bartos-Elekes Zs., Haidu I. (2017), The Anina (Steierdorf) coal mining district in Banat (Romania) on some old geological maps (1850-1884). *Austrian Journal of Earth Sciences*, 110(2), WOS: 000427127800003. DOI: 10.17738/ajes.2017.0016, https://www.ajes.at/images/AJES/archive/Band%20110_2/korodi_et_al_ajes_110_2.pdf IF=1.7

Haidu I. (2016), What is Technical Geography. *Geographia Technica*, 11(1), 1-5.
WOS: 000374333500001. DOI: 10.21163/GT_2016.111.01 IF=0.7

Győri M-M., Haidu I., Humbert J., (2016), Deriving the floodplain in rural areas for high exceedance probability having limited data source. *Environmental Engineering and Management Journal*, 15(8), 1879-1887, WOS: 000388119400023. http://www.eemj.icpm.tuiasi.ro/pdfs/vol15/no8/23_252_Gyori_16.pdf IF=1.1

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WOS: 000387985900010. https://doi.org/10.1051/lhb/2016050 IF=0.8

Korodi E., Bartos-Elekes Zs., Rus I., Haidu I. (2016), Cartographic analysis of some old Transylvanian geological maps from the second half of the nineteenth century. *Acta Geodaetica et Geophysica*, 51(3), 405-419. WOS:000388105500004. DOI: 10.1007/s40328-015-0133-5, https://link.springer.com/article/10.1007/s40328-015-0133-5 IF=1.4

Haidu I., Ivan K. (2016), The assessment of the impact induced by the increase of impervious areas on surface runoff. Case study the city of Cluj-Napoca, Romania. *Carpathian Journal of Earth and Environmental Sciences*, 11(2), 331-337. WOS:000381899300003. https://www.cjees.ro/viewTopic.php?topicId=621 IF=0.88

Furtuna P., Haidu I., Alexe M., Holobaca I. (2015), Change detection in the Cluj Forest district, using remote sensing and GIS application. *Environmental Engineering and Management Journal*, 15(6), 1361-1367. WOS: 000383100900018. http://www.eemj.icpm.tuiasi.ro/pdfs/vol15/no6/18_628_Furtuna_14.pdf IF=1.18

Haidu I., Ivan K. (2016), Ponds delineation in various urban landforms. *Environmental Engineering and Management Journal,* 15(6), 1379-1386. WOS:000383100900020. DOI: 10.30638/eemj.2016.148, http://www.eemj.icpm.tuiasi.ro/pdfs/vol15/no6/20_630_Haidu_14.pdf IF=1.1

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WOS: 000363645500010. https://doi.org/10.5194/nhess-15-2059-2015 IF=4.6

Nicoară P-S., Haidu I. (2014), A GIS based network analysis for the identification of shortest route access to emergency medical facilities. *Geographia Technica*, 9(2), 60-67.
WOS: 000219420500007. https://technicalgeography.org/pdf/2_2014/07_nicoara.pdf

Ivan K., Haidu I. (2012), The spatial-temporal distribution of road accidents in Cluj-Napoca. *Geogr. Tech.,* 7(2), 33 – 39. WOS:000219448600004.

Tudose T., Croitoru A-E, Haidu I. (2013), Some aspects on rainfall maximum intensity in northwestern Romania. Published in International Multidisciplinary Scientific GeoConference - SGEM Proceedings. Section *Air Pollution and Climate Change,* pp. 771-778.
DOI: 10.5593/SGEM2013/BD4/S19.034. WOS:000365992100101.

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Costea G., Haidu I. (2010). Detection of recent spatial changes regarding landuse in small basins from the Apuseni Natural Park. *Geographia Technica*, 5(2), 11-17. Web of Science accession number: WOS:000219432900002.

Haidu I., Crăciun A.I., Domniţa M., (2010), Geographical Information System Model for the Evaluation of Snowmelt Effect on Soil Moisture. Information Technology Interfaces,
IEEE Publication, Catalog Number CFP 10498-PRT, pp. 623 – 628. ISSN: 1330-1012
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David B.S., Haidu I. (2009), Climate breakpoints in three stations of Transylvania and their relationship with EAWR. *Geogr.Tech/Special issue: Climate extremes: genesis, modelling and impacts,* 125-130. WOS:000219425000021.

Kenfack T.T., Tsalefac M., Haidu I. (2009) Climate influence on meningococcal outbreaks in Damare's Plain (Far North Cameroon). *Geogr.Tech/Special issue: Climate extremes: genesis, modelling and impacts,* 263-268.
WOS:000219425000044.

Haidu I., Magyari-Saska Zs., (2009), Animated Sequential Trend Signal Detection in Finite Samples. *Information Technology Interfaces*, IEEE Publication, Catalog Number CFP 09498-PRT, pp.249-254. ISSN 1330-1012. https://ieeexplore.ieee.org/document/5196088. WOS:000272790600042.

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