

INFORMAȚII PERSONALE



-  Domiciliu: Cluj-Napoca, România
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 <https://loterr.univ-lorraine.fr/content/haidu-ionel/>
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<https://www.webofscience.com/wos/author/record/B-4939-2019>
<https://www.researchgate.net/profile/Ionel-Haidu>
<https://orcid.org/0000-0003-2586-7068>

Domenii de interes: Hydrology, Climatology, Time Series Analysis, Technical Geography

EXPERIENȚA PROFESIONALĂ

| | |
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| 2020 – prezent | <p>Profesor universitar la Université de Lorraine, https://www.univ-lorraine.fr/ (201-300 : Shanghai Ranking) 34 cours Léopold, CS 25233, Nancy, 54052, France Département de Géographie: https://geo-metz.dep.univ-lorraine.fr/ Laboratoire LOTERR-EA7304 : https://loterr.univ-lorraine.fr/content/haidu-ionel/ <i>Cursuri predate: Climatologie - analyse des séries chronologiques, Hydrologie urbaine, hydrologie statistique, Changement climatique, Environnement et risques, Géographie des risques naturels et aménagements.</i></p> |
| 1987 – 2020 | <p>Universitatea Babeș-Bolyai Cluj-Napoca, Facultatea de Geografie 1987 (asistent univ.), 1990 (șef de lucrări), 1994 (conferențiar), 2003 (profesor) 2004-2020 conducător de doctorat la UBB în Geografie Tehnică și Sisteme Informaționale Geografice 2003-2007: prodecan 2007-2011: director al masteratului de Geomantică <i>Cursuri predate: Hidrologie, Climatologie, Teledetectie, GIS, Metode statistico-matematice, Metodologia cercetărilor geografice, Riscuri geografice</i></p> |
| 2008 – prezent | <p>Manager al Asociației „Geographia Technica” și editor https://technicalgeography.org/gtassociation/index.htm și https://technicalgeography.org/</p> |
| 1980 - 1987 | <p>Profesor de geografie în învățământul mediu, Școala 15 Cluj-Napoca</p> |

EDUCAȚIE ȘI FORMARE

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|------|---|
| 1995 | <p>Premiul „Simion Mehedinți” al Academiei Române, ca unic autor, pentru lucrarea <i>Evaluarea potențialului hidroenergetic natural al râurilor mici din Carpații Maramureșului și Bucovinei</i> (publicată în anul 1993)</p> |
| 1995 | <p>Certificate in Geographic Information System: College of Surveying and Land Management of Szekesfehervar, Hungary & Clark University of USA</p> |
| 1992 | <p>M.Sc. in Hydrology: Interuniversity Postgraduate Programme in Hydrology, Vrije Universiteit Brussels, Faculty of Applied Sciences, Belgium.</p> <p>Diploma de M.Sc. a fost echivalată cu Diploma de Înalte Studii Postuniversitare, Specializarea Ingineria Resurselor de Apă, acordată de Universitatea Tehnică de Construcții din București, Facultatea de Hidrotehnică.</p> |
| 1991 | <p>Doctor in geografie. Universitatea « Al. I. Cuza » din Iași, Facultatea de Geografie și Geologie. Titlul tezei de doctorat: <i>Potențialul hidroenergetic natural al râurilor mici din Grupa Nordica a Carpaților Orientali</i> (coordonator prof. Ioan Donisă).</p> |
| 1980 | <p>Diploma de Licență în Geografie și limba franceză: Universitatea „Babeș-Bolyai” Cluj-Napoca, Facultatea de Biologie, Geografie și Geologie</p> |
| 1975 | <p>Diploma de Bacalaureat: Liceul teoretic Marghita, Secția reală</p> |

STAGII / BURSE / ALTE LOCURI DE MUNCA

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| 1990-1992 | Bursier Berkner al American Geophysical Union (http://www.agu.org/) |
| 1991 (sept) -1992 (sept) | Bursă TEMPUS I , Vrije Universiteit Brussels (VUB), Faculty of Applied Sciences, Belgium |
| 1993 (sept.-dec.) | Bursă PECO/COST , Vrije Universiteit Brussels (VUB), Belgium, Department of Hydrology |
| 1995 -1999 | Conferențiar asociat la Universitatea Tehnică de Construcții din București, Fac. de Hidrotehnică (proiecte TEMPUS). <i>Cursuri predate: Program Postuniversitar de Hidrologie și Program Postuniversitar de GIS</i> |
| 1996 (mar.-mai) | Bursă TEMPUS II , Université Louis Pasteur de Strasbourg, France, Centre d'Etudes et de Recherches Eco-géographiques |
| 1999 - 2002 | Profesor universitar la Universitatea din Oradea, Facultatea de Geografie <i>Cursuri predate: Hidrologie, Oceanografie, Geoinformatică, Măsurători și calcule în hidrologie și climatologie.</i> |
| 2001 (3 luni), 2002 (2 luni), 2003 (2 luni), 2009 (2 luni), 2011 → | Profesor universitar invitat la Université de Strasbourg (101-151 : Shanghai Ranking), Faculté de Géographie În 2011 am început să lucrez alternativ la o altă universitate franceză, Université de Lorraine (201-300 : Shanghai Ranking), Faculté de Géographie, unde în prezent sunt profesor titular. |

PROIECTE, GRANTURI, MANAGEMENT ORGANIZAȚIONAL (selecție)

- **Director** de grant CNCSIS tip A: Realizarea atlaselor digitale ale ariilor protejate, 1997
- **Director** de grant ANSTI tip C: Riscul producerii hazardelor hidro-climatice din zona transfrontaliera a județului Bihor, 2000-2001
- **Director** de grant CNCSIS tip A: *Dezvoltarea algoritmilor de analiza spațială a resurselor geografice pe baza SIG*
- **Director** de grant CNCSIS tip A : *Cât de mult se schimbă clima ? Analiza stohastică a seriilor proxy și instrumentale din Europa ultimului mileniu, 2006-2008.*
- **Director** de grant PN-II-ID-PCE : *Așezări montane amenințate de torenți pluviali – metodologie GIS pentru estimarea vulnerabilității și riscului. Aplicații la Munții Apuseni, 2007-2011.*
- **Directeur** de Proiect PCSI - AUF / 6316PS823 : *Changements climatiques et leurs impacts sur la vie rurale. Ecole de formation et appui à la recherche comparée* (Roumanie, France et Madagascar) 2008-2009.
- Membru în proiectul internațional *FOREST@RISK: Climate-driven risks and adaptation measures for European forests* (2018-2022), din cadrul Centrului Comun de Cercetare al Comisiei Europene (JRC) / Direcția D - Resurse durabile.
- Membru în proiectul *RECRET: REconstitution des CRues et des Étiages*, 2017 – présent ; Université de Lorraine.
- Membru în programul *BIMA Kemendikbudristek* - Department of Mathematics, IPB University, Bogor, Indonezia (2025).

COORDONATOR DE DOCTORAT

In calitate de coordonator de doctorat in ROMANIA, am coordonat 17 teze, dintre care 2 in cotutela cu Franța și 1 in cotutela cu Belgia

In calitate de coordonator de doctorat in FRANTA, am coordonat 5 teze, dintre care 2 in cotutela cu Romania și 1 in cotutela cu Maroc

EXPERT/EVALUATOR

- ❖ Sunt membru în CNATDCU, Comisia Științele Pământului pentru mandatul 2024-2028
- ❖ Sunt membru în Comisia de specialitate a CNCS, nr. 11 - Științele pământului și atmosferei (17.07.2025)
- ❖ Sunt expert independent al ANC pentru Geografie și Știința/Ingineria mediului (din 31.07.2025)
- Am fost expert în Comisia 4 a CNCSIS „Științele Vieții și ale Pământului” (până în anul 2010)
- Am fost expert al Agence universitaire de la Francophonie, GACR – Czech Science Foundation și evaluator în Franța.
 - Membru al Asociației Internaționale de Hidrologie IAHS/IUGG, din 1986
 - Membru al American Geophysical Union (AGU) din 1990
 - Membru al European Geophysical Union (EGU) din 1991
 - Membru al Asociației Internaționale de Climatologie (AIC - asociație francofonă) din 1996
In perioada 2003-2009 am fost membru în Consiliul de Administrație al AIC.
 - Membru al rețelei Past Global Changes (PAGES) din 2007
 - Membru al Institute of Electrical and Electronics Engineers – Region 8 (IEEE), din 2008
 - Membru al rețelei Infoclimat France, din 2017

ACTIVITATEA EDITORIALĂ ȘI DE ORGANIZATOR DE CONFERINȚE INTERNAȚIONALE

*În anul 2006 am înființat revista "Geographia Technica" <https://technicalgeography.org> care astăzi este una dintre cele mai prestigioase reviste geografice internaționale din sud-estul Europei, având Clarivate IF = 0.8 și categoria Q3 în SCOPUS. De 19 ani sunt editorul și managerul acestei reviste care se autofinanțează.

SJR: H-index=16, locul 1 în România la categoria „Computers in Earth Sciences” și la categoria Earth-Surface Processes”
<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>

*Enciclopedia Wikipedia https://en.wikipedia.org/wiki/Technical_geography#cite_note-Haidu1-1 recunoaște rolul important al lansării în anul 2006 a revistei „Geographia Technica” https://en.wikipedia.org/wiki/Geographia_Technica#cite_note-tech1-1, și citează contribuția profesorului Haidu la secțiunea „21st century” a paginii enciclopedice „Technical Geography”. Aceeași pagină enciclopedică citează faptul că ulterior, cel puțin 20 de universități din întreaga lume au dezvoltat cursuri universitare și programe academice de geografie tehnică.

*Sunt membru și în alte colective editoriale: Studia UBB - seria Geographia; Seminarul Geografic „D.Cantemir” Iasi, seria GIS; Present Environment and Sustainable Development; Air and Water – Components of the Environment; Annales de l’AIC (2004-2009).

*Sunt Guest Editor la revista Remote Sensing (IF = 4.2; CiteScore = 8.3).

*Am fost și sunt un promotor al cooperării științifice și culturale cu Republica Moldova deoarece începând cu anul 1996 și până aproape de pensionare, am participat ca responsabil din partea Clujului la organizarea Simpozionului Internațional « Sisteme Informaționale Geografice », desfășurat în alternanță anuală la Iași, Chișinău și Cluj-Napoca, și care a ajuns la a 29-a ediție, iar astăzi se menține ca tribună a GIS-iștilor din România și Republica Moldova, și nu numai din aceste țări.

*Am fost principalul organizator și coordonator al Simpozionului Internațional de Geografie Tehnică, 28-30 mai 2008, Facultatea de Geografie din Cluj-Napoca. Au participat 90 persoane din 10 de țări.

*Am fost principalul organizator și coordonator al XXIIème Colloque de l’Association Internationale de Climatologie, 1-5 sept. 2009, Facultatea de Geografie din Cluj-Napoca. Au participat 150 de persoane din 21 de țări.

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|-------------------------|------------|--------|-------------|--------------|------------------|
| Limba maternă | Română | | | | |
| Limbi străine cunoscute | | | | | |
| Autoevaluare | Înțelegere | | Vorbire | | Scriere |
| | Ascultare | Citire | Conversație | Discurs oral | Exprimare scrisă |
| Limba franceză | C2 | C2 | C2 | C2 | C2 |
| Limba engleză | B1 | B1 | B1 | B1 | B1 |

LUCRĂRI ȘTIINȚIFICE
perioada 1981 – prezent

Articole științifice indexate în Web of Science

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

El Orfi, T., El Gachi, M., Lebaut, S., Haidu, I., Ouchala, M. (2025), Land and water resources changes and their driving forces in the south part of the Middle Atlas Mountains, Morocco. *GEOJURNAL*, **90**(3), Article #114, WOS:001488607600001. <https://doi.org/10.1007/s10708-025-11349-x> IF=2.0

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

Ciurba (Pastor) A.P., Haidu I., Ianc D. (2023), Administrative Aspects Regarding the Valorisation of Geothermal Waters for Balneological Purposes in Bihor County, Romania. *Sustainability*, **15**: 10320. WOS: 001028164500001. <https://doi.org/10.3390/su151310320> IF=3.9

Kovács K.D., Haidu I. (2022), Tracing out the effect of transportation infrastructure on NO₂ concentration levels with Kernel Density Estimation by investigating successive COVID-19-induced lockdowns. *Environmental Pollution*, **309**: 119719. WOS: 000831061200003. <https://doi.org/10.1016/j.envpol.2022.119719> IF=8.9

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). WOS: 000534207300002. <https://doi.org/10.1002/met.1796> IF=2.7

- Ciurba (Pastor) A.P., Haidu I., Sîrbu E., Gavril G.A., Marcu F., Moțofeala 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. WOS: 001167118000002. [DOI 10.12680/balneo.2023.597](https://doi.org/10.12680/balneo.2023.597) IF=1.5
- Nistor M.M., Satyanaga A., Dezsi S., Haidu I. (2022), European Grid Dataset of Actual Evapotranspiration, Water Availability and Effective Precipitation. *Atmosphere*, 13(5): 772. WOS: 000802406900001. <https://doi.org/10.3390/atmos13050772> IF=2.9
- 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. WOS: 000822522700003. [DOI:10.28974/idojaras.2022.2.3](https://doi.org/10.28974/idojaras.2022.2.3) IF=0.9
- Strapazan C., Haidu I., Irimus I.A. (2021), A comparative assessment of different loss methods available in MIKE Hydro River-UHM. *Carpathian Journal of Earth and Environmental Sciences*, 16(1), 261-273. WOS: 000624570200022. DOI:10.26471/cjees/2021/016/172, <https://cjees.ro/viewTopic.php?topicId=900> IF=1.31
- 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
- Forzieri, G., Pecchi, M., Girardello, M., Mauri, A., Klaus, M., Nikolov, C., Rüetschi, M., Gardiner, B., Tomaščík, J., Small, D., Nistor, C., Jonikavicius, D., Spinoni, J., Feyen, L., Giannetti, F., Comino, R., Wolynski, A., Pirotti, F., Maistrelli, F., Savulescu, I., Wurpillot-Lucas, S., Karlsson, S., Zieba-Kulawik, K., Strejcek-Jazwinska, P., Mokoř, M., Franz, S., Krejci, L., Haidu, I., Nilsson, M., Wezyk, P., Catani, F., Chen, Y.-Y., Luysaert, S., Chirici, G., Cescatti, A., and Beck, P.S.A. (2020), A spatially explicit database of wind disturbances in European forests over the period 2000–2018. *Earth System Science Data*, 12(1): 257–276. WOS: 000514087800001, <https://doi.org/10.5194/essd-12-257-2020> IF=11.4
- 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](https://doi.org/10.21163/GT_2018.132.04) , IF=0.7
- Haidu I., Batelaan O., Craciun A.I., Domiņa 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](https://doi.org/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](https://doi.org/10.21163/GT_2016.111.01) IF=0.7
- Györi 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
- Haidu I., Ivan K. (2016), Évolution du ruissellement et du volume d'eau ruisselé en surface urbaine. Étude de cas : Bordeaux 1984-2014, France. *La Houille Blanche*, 5, 51-56.
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
- Ivan K., Haidu I., Benedek J., Ciobanu S.M. (2015), Identification of traffic accident risk prone areas under low-light conditions. *Nat. Hazards Earth Syst. Sci.*, 15, 2059-2068.
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
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