

Lista publicațiilor științifice lucrărilor, articolelor/studiilor relevante pentru activitățile de cercetare științifică

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I. Lista celor mai relevante 10 publicații științifice, cele mai relevante, precum: cărți de autor, articole/studii/capitole volume editate, lucrări

1. **Crăciun A.**, Costache R., Bărbulescu A., Pal S.C., Costache I., Dumitriu C.Ș. (2022) *Modern Techniques for Flood Susceptibility Estimation across the Deltaic Region (Danube Delta) from the Black Sea's Romanian Sector*, Journal of Marine Science and Engineering, 10(8), 1149. DOI: <https://doi.org/10.3390/jmse10081149> **ISI I.F. = 2.9 (Q1)**
2. Costache, R., Ciobotaru, N., **Crăciun, A.**, Chakraborty, R., & Pandey, M. (2026). *Fuzzy-decision trees models for flood hazard modeling in the Danube Delta*. Geomatics, Natural Hazards and Risk, 17(1), 2624697. DOI: <https://doi.org/10.1080/19475705.2026.2624697> **ISI I.F. = 4.6 (Q1)**
3. Costache R., Alireza A., Costache I., **Crăciun A.**, Pham B.T. (2022) *New machine learning ensemble for flood susceptibility estimation*, Water Resources Management. 36(12), 4765-4783. DOI: <https://doi.org/10.1007/s11269-022-03276-0> **ISI I.F. = 4.3 (Q1)**
4. Costache R., Arabameri A., Costache I., **Crăciun A.**, Islam A.R.M.T., Abba S.I., Sahana M., Pham B.T. (2022) *Flood susceptibility evaluation through deep learning optimizer ensembles and GIS techniques*, Journal of Environmental Management, 316, 115316. DOI: <https://doi.org/10.1016/j.jenvman.2022.115316>. **ISI I.F. = 8.7 (Q1)**
5. Costache R., Tin T.T., Arabameri A., **Crăciun A.**, Ajin R.S., Costache I., Islam A.R..M.T., Abba S.I., Sahana M., Avand M., Pham B.T. (2022) *Flash-flood hazard using deep learning based on H₂O R package and fuzzy-multicriteria decision-making analysis*, Journal of Hydrology, 609, 127747. DOI: <https://doi.org/10.1016/j.jhydrol.2022.127747>. **ISI I.F. = 6.4 (Q1) – Highly Cited paper – Included in the Top 1% of the academic field of Engineering according to Web of Science (Clarivate Analytics) (January/February 2023).**
6. Costache R, Arabameri A., Costache I., **Crăciun A.**, Abu Reza Md. Towfiqul Islam A.R.M.T., Abba S.I., Sahana M., Pandey M., Trung Tin T.T., Pham B.T. (2024) *Flood hazard potential evaluation using decision tree state-of-the-art models*, Risk Analysis, 44(2), 439-458. DOI: <https://doi.org/10.1111/risa.14179>. **ISI I.F. = 3.3 (Q1)**
7. Costache, R; Tin, TT; Arabameri, A; **Crăciun, A.**; Costache, I; Islam, AMT; Sahana, M; Pham, BT (2022). *Stacking state-of-the-art ensemble for flash-flood potential assessment*, Geocarto International, DOI: <https://doi.org/10.1080/10106049.2022.2082558>. **ISI I.F. = 3.8 (Q2)**
8. Gómez-Baggethun, E., Tudor, M., Doroftei, M., Covaliov, S., Năstase, A., Onăra, D. F., Mierlă, M., Marinov, M., Doroșencu, A.-C., Lupu, G., Teodorof, L., Tudor I.-M., Kolher, B., Museth,

- J., Aronsen, E., Johnsen, S.I., Ibram, O., Marin, E., **Crăciun, A.**, & Cioacă, E. (2019). Changes in ecosystem services from wetland loss and restoration: An ecosystem assessment of the Danube Delta (1960–2010). *Ecosystem services*, 39, 100965. <https://doi.org/10.1016/j.ecoser.2019.100965> **ISI I.F. = 5.572 (Q1)**
9. Costache, R.; **Crăciun, A.**; Ciobotaru, N.; Bărbulescu, A. Intelligent Methods for Estimating the Flood Susceptibility in the Danube Delta, Romania. *Water* **2024**, 16, 3511. <https://doi.org/10.3390/w16233511> **ISI I.F. = 3 (Q2)**
10. Vădineanu, A., **Crăciun, A.**, Vădineanu, R.Ș., 2026. Retrospective and Prospective Views on the Dynamics and Governance of the Integrated and Nested Nature and Society Ecological Complexes (NSEC): The Eastern Lower Danube River Sub-catchment – Chapter 4 pp. 67 - 105. In: Land Use Planning and Management for a Sustainable Future. Editor: Masa Noguchi. Published in London, United Kingdom. IntechOpen Series Sustainable Development, Volume 45, ISSN 2753-6580, DOI: <http://dx.doi.org/10.5772/intechopen.1014638>

II. Lista brevetelor de invenție și a altor titluri de proprietate industrială

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III. Lista cărților de autor și a volumelor editate și publicate

1. Vădineanu, A., **Crăciun, A.**, Vădineanu, R.Ș., 2026. Retrospective and Prospective Views on the Dynamics and Governance of the Integrated and Nested Nature and Society Ecological Complexes (NSEC): The Eastern Lower Danube River Sub-catchment – Chapter 4 pp. 67 - 105. In: Land Use Planning and Management for a Sustainable Future. Editor: Masa Noguchi. Published in London, United Kingdom. IntechOpen Series Sustainable Development, Volume 45, ISSN 2753-6580, DOI: <http://dx.doi.org/10.5772/intechopen.1014638>
2. Nichersu, I., Cioacă, E., Mierlă, M., Trifanov, C., Nichersu, I.I., **Ionașcu, A.**, 2015. Metode de monitorizare a elementelor hidromorfologice de calitate pentru clasificarea stării ecologice a canalelor și lacurilor – Cap.1 pp.13-40. In Tudor I.-M. (Ed.) GHID METODOLOGIC DE MONITORIZARE A FACTORILOR HIDROMORFOLOGICI, CHIMICI ȘI BIOLOGICI PENTRU APELE DE SUPRAFAȚĂ DIN REZERVAȚIA BIOSFEREI DELTA DUNĂRII, Editura Centrul de Informare Tehnologică Delta Dunării, ISBN: 978-606-93721-8-0

IV. Lista articolelor/studiilor in extenso, publicate în reviste din fluxul științific internațional principal

1. **Crăciun A.**, Costache R., Bărbulescu A., Pal S.C., Costache I., Dumitriu C.Ș. (2022) *Modern Techniques for Flood Susceptibility Estimation across the Deltaic Region (Danube Delta) from the Black Sea's Romanian Sector*, Journal of Marine Science and Engineering, 10(8), 1149. DOI: <https://doi.org/10.3390/jmse10081149>. **ISI I.F. = 2.9 (Q1)**
2. Costache, R., Ciobotaru, N., **Crăciun, A.**, Chakraborty, R., & Pandey, M. (2026). *Fuzzy-decision trees models for flood hazard modeling in the Danube Delta*. Geomatics, Natural Hazards and Risk, 17(1), 2624697. DOI: <https://doi.org/10.1080/19475705.2026.2624697> **ISI I.F. = 4.6 (Q1)**
3. Costache R., Alireza A., Costache I., **Crăciun A.**, Pham B.T. (2022) *New machine learning ensemble for flood susceptibility estimation*, Water Resources Management. 36(12), 4765-4783. DOI: <https://doi.org/10.1007/s11269-022-03276-0>. **ISI I.F. = 4.3 (Q1)**
4. Costache R., Arabameri A., Costache I., **Crăciun A.**, Islam A.R.M.T., Abba S.I., Sahana M., Pham B.T. (2022) *Flood susceptibility evaluation through deep learning optimizer ensembles and GIS techniques*, Journal of Environmental Management, 316, 115316. DOI: <https://doi.org/10.1016/j.jenvman.2022.115316>. **ISI I.F. = 8.7 (Q1)**
5. Costache R., Tin T.T., Arabameri A., **Crăciun A.**, Ajin R.S., Costache I., Islam A.R.M.T., Abba S.I., Sahana M., Avand M., Pham B.T. (2022) *Flash-flood hazard using Deep Learning based on H2O R package and fuzzy-multicriteria decision-making analysis*, Journal of Hydrology, 609, 127747. DOI: <https://doi.org/10.1016/j.jhydrol.2022.127747>. **ISI I.F. = 6.4 (Q1)** – **Highly Cited paper – Included in the Top 1% of the academic field of Engineering according to Web of Science (Clarivate Analytics) (January/February 2023).**
6. Costache R, Arabameri A., Costache I., **Crăciun A.**, Abu Reza Md. Towfiqul Islam A.R.M.T., Abba S.I., Sahana M., Pandey M., Trung Tin T.T., Pham B.T. (2024) *Flood hazard potential evaluation using decision tree state-of-the-art models*, Risk Analysis, 44(2), 439-458. DOI: <https://doi.org/10.1111/risa.14179>. **ISI I.F. = 3.3 (Q1)**
7. Yu, H., Arabameri, A., Costache, R., **Crăciun A.**, Arora, A. (2022). *Land subsidence susceptibility assessment using advanced artificial intelligence models*. Geocarto International. 37(27), 18067-18093. DOI: <https://doi.org/10.1080/10106049.2022.2136265>. **ISI I.F. = 3.8 (Q2)**
8. Gómez-Baggethun, E., Tudor, M., Doroftei, M., Covaliov, S., Năstase, A., Onăra, D. F., Mierlă, M., Marinov, M., Dorosencu, A.-C., Lupu, G., Teodorof, L., Tudor I.-M., Kolher, B., Museth, J., Aronsen, E., Johnsen, S.I., Ibram, O., Marin, E., **Crăciun, A.**, & Cioacă, E. (2019). Changes in ecosystem services from wetland loss and restoration: An ecosystem assessment of the Danube Delta (1960–2010). *Ecosystem services*, 39, 100965. <https://doi.org/10.1016/j.ecoser.2019.100965> **ISI I.F. = 5.572 (Q1)**
9. Costache, R.; **Crăciun, A.**; Ciobotaru, N.; Bărbulescu, A. Intelligent Methods for Estimating the Flood Susceptibility in the Danube Delta, Romania. *Water* **2024**, *16*, 3511.

- <https://doi.org/10.3390/w16233511> **ISI I.F. = 3 (Q2)**
10. Costache, R., Ali, S. A., Parvin, F., Pham, Q. B., Arabameri, A., Nguyen, H., **Crăciun, A.** & Anh, D. T. (2022). Detection of areas prone to flood-induced landslides risk using certainty factor and its hybridization with FAHP, XGBoost and deep learning neural network. *Geocarto International*, 37(25), 7303–7338. <https://doi.org/10.1080/10106049.2021.1973115> **ISI I.F. = 3.8 (Q2)**
 11. Costache, R., Pham, Q. B., Arabameri, A., Diaconu, D. C., Costache, I., **Crăciun, A.**, Ciobotaru, N., Pandey, M., Arora, A., Ali Ajim Sk, Pham Thai B., Nguyen, H., Tuan Anh H., Avand, M. (2022). Flash-flood propagation susceptibility estimation using weights of evidence and their novel ensembles with multicriteria decision making and machine learning. *Geocarto International*, 37(25), 8361–8393. <https://doi.org/10.1080/10106049.2021.2001580> **ISI I.F. = 3.8 (Q2)**
 12. Costache, R; Tin, TT; Arabameri, A; **Crăciun, A.**✉; Costache, I; Islam, AMT; Sahana, M; Pham, BT (2022). Stacking state-of-the-art ensemble for flash-flood potential assessment, *Geocarto International*, DOI: <https://doi.org/10.1080/10106049.2022.2082558>. **ISI I.F. = 3.8 (Q2)**
 13. Negrei C., **Crăciun A.**, Tudor M. (2018). Contributions to the analysis of the flows of environmental information on the Danube Delta Biosphere Reserve. *Journal of Environmental Protection and Ecology*, 19 (2), 849–858, ISSN 1311-5065. **ISI I.F. = 0,634 (Q4)**
 14. Negrei C., **Ionașcu A.**, Tudor M. (2017). The assessment modeling of the environmental impact for the ecological reconstruction of polders in the Danube Delta. *Journal of Environmental Protection and Ecology* 17 (4), 1592-1602, ISSN 1311-5065. **ISI I.F. = 0,679 (Q4)**
 15. Burada A., Teodorof L., **Ionașcu A.**, Topa M. C., Georgescu L. P., Tudor I.-M., Ibram O., Tudor M., (2016). Temporal trends and evolution of heavy metals concentrations in some aquatic complex - last area of the danube floodplain. *Journal of Environmental Protection and Ecology* 17 (3), 864–873. ISSN 1311-5065. **ISI I.F. = 0,774 (Q4)**
 16. **Crăciun A.**, Negrei C., (2019). Scientific substantiation methods of the ecological restoration projects from the Danube Delta Biosphere Reserve, *Scientific Annals of the Danube Delta Institute*, vol. 24 Tulcea (Romania), 147-156, ISSN 1842-614X.
 17. Costache R., **Crăciun A.**✉, Ciobotaru N., Mishra A.P. (2023). Flood susceptibility in Danube Delta using Fuzzy Logic and GIS. *Scientific Annals of the Danube Delta Institute*, vol. 28, 23-30 pp, Danube Delta National Institute for Research and Development, Tulcea Romania. <http://doi.org/10.7427/DDI.28.03>
 18. Ciobotaru N, **Crăciun A.**✉, Costache R-D (2025). Flood hazard assessment in the Danube Delta using 2D hydraulic modeling. *Scientific Annals of the Danube Delta Institute* 30: 79–90. <https://doi.org/10.3897/saddi.30.160526>

V. Lista altor lucrări și contribuții științifice

1. **Crăciun A.**, Negrei C., (2019). Scientific substantiation methods of the ecological restoration projects from the Danube Delta Biosphere Reserve, Scientific Annals of the Danube Delta Institute, vol. 24 Tulcea (Romania), 147-156, ISSN 1842-614X.
2. Costache R., **Crăciun A.**✉, Ciobotaru N., Mishra A.P. (2023). Flood susceptibility in Danube Delta using Fuzzy Logic and GIS. Scientific Annals of the Danube Delta Institute, vol. 28, 23-30 pp, Danube Delta National Institute for Research and Development, Tulcea Romania. <http://doi.org/10.7427/DDI.28.03>
3. Ciobotaru N, **Crăciun A.**✉, Costache R-D (2025). Flood hazard assessment in the Danube Delta using 2D hydraulic modeling. Scientific Annals of the Danube Delta Institute 30: 79–90. <https://doi.org/10.3897/saddi.30.160526>