

PUBLICATII / PROIECTE / BREVETE

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1. PUBLICATII WOS CU FACTOR DE IMPACT (WOS)

1. Ciucure, C. T., Geana, E. I., Arseni, M., & Ionete, R. E. (2023). Status of different anthropogenic organic pollutants accumulated in sediments from Olt River Basin, Romania: From distribution and sources to risk assessment. *Science of The Total Environment*, 886, 163967.
<https://www.sciencedirect.com/science/article/pii/S0048969723025883>
2. ARSENI, M., ROMAN, O., CALMUC, M., CALMUC, V. A., ROSU, A., PETREA, S. M., ... & GEORGESCU, L. P. (2023). AN AUTOMATED METHOD FOR FORESTRY DETERMINATION USING A UAV LIDAR-MOUNTED PLATFORM. *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*, 12.
<https://landreclamationjournal.usamv.ro/pdf/2023/Art13.pdf>
3. Roșu, B., Mocanu, G. D., Pila, M. M., Murariu, G., Roșu, A., & Arseni, M. (2023). Enhancing the Performance of a Simulated WWTP: Comparative Analysis of Control Strategies for the BSM2 Model. *Mathematics*, 11(16), 3471.
<https://doi.org/10.3390/math11163471>
4. CALMUC, V. A., CALMUC, M., ARSENI, M., SIMIONOV, I. A., ANTACHE, A., MILEA, S. A., ... & GEORGESCU, P. L. (2023). SPATIAL DISTRIBUTION OF PHARMACEUTICALS IN THE LOWER DANUBE RIVER WATER. *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*, 12.
<https://landreclamationjournal.usamv.ro/pdf/2023/Art12.pdf>
5. CALMUC, M., CALMUC, V. A., CONDURACHE, N. N., ARSENI, M., SIMIONOV, I. A., TIMOFTI, M., ... & ITICESCU, C. (2023). STUDY ON MICROPLASTICS OCCURRENCE IN THE LOWER DANUBE RIVER WATER. *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*, 12.
<https://landreclamationjournal.usamv.ro/pdf/2023/Art39.pdf>
6. ROSU, A., ARSENI, M., CONSTANTIN, D. E., ROSU, B., PETREA, S. M., VOICULESCU, M., ... & GEORGESCU, L. P. (2023). STUDY OF AIR POLLUTION LEVEL IN AN URBAN AREA USING LOW-COST SENSOR SYSTEM ONBOARD MOBILE PLATFORM. *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*, 12.
<https://landreclamationjournal.usamv.ro/pdf/2023/Art16.pdf>
7. PETREA, S. M., SIMIONOV, I. A., ANTACHE, A., NICA, A., ANTOHI, C., CRISTEA, D. S., ... & ITICESCU, C. (2023). MACHINE LEARNING-BASED MODELING FRAMEWORK FOR IMPROVING ROMANIAN RESILIENCE STRATEGY TO GREENHOUSE GAS EMISSIONS IN RELATION TO VISEGRAD GROUP. *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*, 12.
<https://landreclamationjournal.usamv.ro/pdf/2023/Art19.pdf>

8. Călmuc, M., Călmuc, V. A., Arseni, M., Simionov, I. A., Antache, A., Apetrei, C., ... & Iticescu, C. (2022). Identification and characterization of plastic particles found in the Lower Danube River. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, XI., 332, 337 (IF 2022=0.4)
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
9. ROȘU, B., ROȘU, A., Arseni, M., Petrea, Ș. M., Iticescu, C., & Georgescu, P. L. (2022). The effects of optimizing a simulated wastewater treatment plant on effluent quality. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 11. (IF 2022=0.4)
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
10. ARSENI, M., ROȘU, A., PETREA, Ș. M., CĂLMUC, M., ROȘU, B., CONSTANTIN, D. E., ... & GEORGESCU, P. L. (2022). THE POSITIVE EFFECTS OF CHANNELS RESTORATION IN THE DANUBE DELTA BIOSPHERE RESERVE. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 11. (IF 2022=0.4)
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
11. Roșu, A., Arseni, M., Roșu, B., PETREA, Ș. M., Iticescu, C., & Georgescu, P. L. (2022). STUDY OF THE INFLUENCE OF MANNING PARAMETER VARIATION FOR WATERFLOW SIMULATION IN DANUBE DELTA, ROMANIA. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 11. (IF 2022=0.4)
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
12. PETREA, Ș. M., Simionov, I. A., Antache, A., Nica, A., Arseni, M., ROȘU, A., ... & NECULIȚĂ, M. (2022). Phytoremediation capacity and phosphorus mass balance in a basil-sturgeons aquaponics integrated recirculating system. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 11. (IF 2022=0.4)
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
13. Calmuc, V. A., Calmuc, M., Arseni, M., Topa, C. M., Timofti, M., Burada, A., ... & Georgescu, L. P. (2021). Assessment of heavy metal pollution levels in sediments and of ecological risk by quality indices, applying a case study: The Lower Danube River, Romania. Water, 13(13), 1801. (IF=3.103)
<https://doi.org/10.3390/w13131801>
14. Iticescu, C., Georgescu, P. L., **Arseni, M.**, Rosu, A., Timofti, M., Carp, G., & Cioca, L. I. (2021). Optimal Solutions for the Use of Sewage Sludge on Agricultural Lands. Water, 13(5), 585. (IF 2020 = 3.103)
<https://doi.org/10.3390/w13050585>
15. Roșu, A., Constantin, D. E., Voiculescu, M., **Arseni, M.**, Roșu, B., Merlaud, A., ... & Georgescu, P. L. (2021). Assessment of NO₂ Pollution Level during the COVID-19 Lockdown in a Romanian City. International Journal of Environmental Research and Public Health, 18(2), 544. (IF 2020 = 3.390)
<https://doi.org/10.3390/ijerph18020544>
16. Banescu, A., **Arseni, M.**, Georgescu, L. P., Rusu, E., & Iticescu, C. (2020). Evaluation of Different Simulation Methods for Analyzing Flood Scenarios in the Danube Delta. Applied Sciences, 10(23), 8327. (IF 2020 = 2.679)
<https://doi.org/10.3390/app10238327>
17. Calmuc, M., Calmuc, V., **Arseni, M.**, Topa, C., Timofti, M., Georgescu, L. P., & Iticescu, C. (2020). A Comparative Approach to a Series of Physico-Chemical Quality Indices Used in Assessing Water Quality in the Lower Danube. Water, 12(11), 3239. (IF 2020 = 2.544)
<https://doi.org/10.3390/w12113239>
18. Merlaud, A., Belegante, L., Constantin, D.-E., Den Hoed, M., Meier, A. C., Allaart, M., Ardelean, M., Arseni, M., Bösch, T., Brenot, H., Calcan, A., Dekemper, E., Donner, S., Dörner, S., Dragomir, C., Georgescu, L., Nemuc, A., Nicolae, D., Pinardi, G., Richter, A., Rosu, A.,

- Ruhtz, T., Schönhardt, A., Schuettemeyer, D., Shaiganfar, R., Stebel, K., Tack, F., Nicolae Vâjâiac, S., Vasilescu, J., Vanhamel, J., Wagner, T., and Van Roozendaal, M (2020). Satellite validation strategy assessments based on the AROMAT campaigns. *Atmospheric Measurement Techniques*, 13(10), 5513-5535. (IF 2020 = 4.176)
<https://doi.org/10.5194/amt-13-5513-2020>
19. Merlaud, A., Belegante, L., Constantin, D. E., Den Hoed, M., Meier, A. C., Allaart, M., ... & Van Roozendaal, M. (2020). The Airborne ROmanian Measurements of Aerosols and Trace gases (AROMAT) campaigns. *Atmospheric Measurement Techniques Discussions*, 2020, 1-34.
<https://doi.org/10.5194/amt-2019-496>
 20. Arseni, M., Rosu, A., Calmuc, M., Calmuc, V. A., Iticescu, C., & Georgescu, L. P. (2020). Development of Flood Risk and Hazard Maps for the Lower Course of the Siret River, Romania. *Sustainability*, 12(16), 6588. (IF 2020 = 2.576)
<https://doi.org/10.3390/su12166588>
 21. Roșu, A., Constantin, D. E., Voiculescu, M., **Arseni, M.**, Merlaud, A., Van Roozendaal, M., & Georgescu, P. L. (2020). Observations of Atmospheric NO₂ Using a New Low-Cost MAX-DOAS System. *Atmosphere*, 11(2), 129. (IF 2019 = 2.046)
<https://doi.org/10.3390/atmos11020129>
 22. **Arseni, M.**, Voiculescu, M., Georgescu, L. P., Iticescu, C., & Rosu, A. (2019). Testing Different Interpolation Methods Based on Single Beam Echosounder River Surveying. Case Study: Siret River. *ISPRS International Journal of Geo-Information*, 8(11), 507. (IF 2018 = 1.84)
<https://doi.org/10.3390/ijgi8110507>
 23. Iticescu, C., Georgescu, L. P., Murariu, G., Topa, C., Timofti, M., Pintilie, V., & **Arseni, M.** (2019). Lower Danube Water Quality Quantified through WQI and Multivariate Analysis. *Water*, 11(6), 1305. (IF 2018 = 2.524)
<https://doi.org/10.3390/w11061305>
 24. Rosu, A., Rosu, B., Constantin D. E., **Arseni, M.**, Voiculescu, M., Georgescu L. P., Murariu, G., & Popa, I. (2019). Overview of tropospheric NO₂ using the ozone monitoring observations instrument and human perception about air quality for the most polluting countries across the world. *Carpathian Journal of Earth and Environmental Sciences*. *Carpathian Journal of Earth and Environmental Sciences*, August 2019, Vol. 14, No. 2, p. 423 - 430; DOI:10.26471/cjees/2019/014/091 (IF 2018 = 0.671)
<http://www.cjees.ro/viewTopic.php?topicId=813>
DOI:10.26471/cjees/2019/014/091
 25. **Arseni, M.**, Rosu, A., Bocaneala, C., Constantin, D. E., & Georgescu, L. P. (2017). Flood hazard monitoring using GIS and remote sensing observations. *Carpathian Journal of Earth and Environmental Sciences*, 12(2), 329-334., ISSN: 1842-4090 (IF 2016 = 0.88)
<http://www.cjees.ro/viewTopic.php?topicId=682>
 26. Constantin, D. E., Merlaud, A., Voiculescu, M., Van Roozendaal, M., **Arseni, M.**, Rosu, A., & Georgescu, L. (2017). NO₂ and SO₂ observations in southeast Europe using mobile DOAS observations. *Carpathian Journal of Earth and Environmental Sciences*, 12(2), 323-328., ISSN: 1842-4090 (IF 2016 = 0.88)
<http://www.cjees.ro/viewTopic.php?topicId=681>

2. PUBLICATII WOS FARA FACTOR DE IMPACT (WOS PROCEEDINGS)

1. Roșu, B., Murariu, G., Arseni, M., Iticescu, C., Mocanu, G. D., Simionescu, N. L., & Roșu, A. (2023, September). Study on optimizing the effluent quality parameters for a simulated wastewater treatment plant using dynamic two-dimensional reference point generation: A comparative approach. In 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA) (pp. 1-4). IEEE. DOI: 10.1109/ETFA54631.2023.10275667
2. <https://ieeexplore.ieee.org/abstract/document/10275667>
3. Roșu, B., Murariu, G., Roșu, A., Iticescu, C., Mocanu, G., Tupu, E., & Arseni, M. (2023, September). Optimizing the energy cost function for a wastewater treatment plant model by employing dynamic generation of a two-dimensional reference point. In 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA) (pp. 1-4). IEEE. DOI: 10.1109/ETFA54631.2023.10275596
<https://ieeexplore.ieee.org/document/10275596>
4. Rosu, B., Condrachi, L., Rosu, A., Arseni, M., & Murariu, G. (2021). Optimizing the Performance of a Simulated Wastewater Treatment Plant by the Relaxation Method. EIRP Proceedings, 16(1). <https://dp.univ-danubius.ro/index.php/EIRP/article/view/211/187>
5. Rosu, A., Constantin, D. E., **Arseni, M.**, & Timofti, M. (2020, March). Atmospheric measurements in the context of protection and conservation of cultural heritage objects. In AIP Conference Proceedings (Vol. 2218, No. 1, p. 030015). AIP Publishing LLC.
<https://aip.scitation.org/doi/abs/10.1063/5.0001827?journalCode=apc>
6. Murariu, G., Hahuie, V., Georgescu, L., **Arseni, M.**, Iticescu, C., Murariu, A. G., ... & Nistor, N. (2017). Study on the influence of atmospheric parameters on the accuracy of the geodetic measurements. In AIP Conference Proceedings (Vol. 1796, No. 1, p. 040009). AIP Publishing., ISBN: 978-0-7354-1462
<http://dx.doi.org/10.1063/1.4972387>
7. Nacu, V., Stoian, I., Vele, D., **Arseni, M.** (2015). IT system for monitoring climatic changes. Modern technologies for the 3rd millennium, pp. 35-41, ISBN: 978-88-7587-724
<http://www.arhiconoradea.ro/Conferinta/SY27.pdf>
8. Nacu, V., Stoian, I., Vele, D., **Arseni, M.** (2015). Geodetic Methods Regarding The Crustal Movements And Earthquake Prediction. Modern technologies for the 3rd millennium, pp. 27-33, ISBN 978-88-7587-724
<http://www.arhiconoradea.ro/Conferinta/SY27.pdf>

3. PUBLICATII INDEXATE IN BAZE DE DATE INTERNATIONALE SI NATIONALE (BDI)

1. **Arseni, M.**, Georgescu, L. P., Circiumaru, A., & Mugurel, E. C. (2015). The influence of the atmospheric temperature value on the accuracy of distance measurement with the surveying total station. *Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 38(1), pp. 20 – 25, ISSN 2067 – 2071
http://www.phys.ugal.ro/Annals_Fascicle_2/Year2015/Vol1.htm
2. **Arseni, M.**, Georgescu, L. P., & Mugurel, E. C. (2015). Analysis of the influence of relative humidity on the accuracy of distance measurement with total stations. *Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 38(1), pp. 33 – 39, ISSN 2067 – 2071
http://www.phys.ugal.ro/Annals_Fascicle_2/Year2015/Vol1.htm
3. **Arseni, M.**, Georgescu, L. P., & Murariu, G. (2016). Photogrammetric applications using UAV systems. *Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 39(1), pp. 37 - 43, ISSN 2067 – 2071
http://www.phys.ugal.ro/Annals_Fascicle_2/Year2016/SummaryII.htm
4. Roșu, A., Roșu, B., Constantin, D. E., Bocăneală, C., **Arseni, M.**, & Georgescu, L. P. (2016). Evolution of NO₂ in five major cities in europe using remote satellite observations and in-situ measurements. *Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 39(1), p66-70, ISSN 2067 – 2071
http://www.phys.ugal.ro/Annals_Fascicle_2/Year2016/SummaryII.htm
5. Roșu, A., Roșu, B., Constantin, D. E., Bocăneală, C., **Arseni, M.**, & Georgescu, L. P. (2016). Correlation between O₃, NO₂ and UV index in Romania. *Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 39(1), pp. 61-65, ISSN 2067 – 2071
http://www.phys.ugal.ro/Annals_Fascicle_2/Year2016/SummaryII.htm
6. **Arseni, M.**, Roșu, A., Georgescu, L. P., & Murariu, G. (2016). Single beam acoustic depth measurement techniques and bathymetric mapping for Catusa lake Galati. *Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 39(2), pp. 281-287, ISSN 2067 – 2071
http://www.phys.ugal.ro/Annals_Fascicle_2/Year2016/SummaryVolume2.htm
7. Roșu, A., Roșu, B., Constantin, D. E., Bocăneală, C., **Arseni, M.**, & Georgescu, L. P. (2016). OVERVIEW OF NO₂ AMBIENT CONCENTRATIONS TRENDS IN EUROPE. *Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 39(2), pp. 248-251, ISSN 2067 – 2071.
http://www.phys.ugal.ro/Annals_Fascicle_2/Year2016/SummaryVolume2.htm
8. **Arseni, M.**, Roșu, A., Nicolae A. F. , Georgescu L. P. & Constantin, D. E., (2017). Comparison of models and volumetric determination for Catusa lake, Galati. *Tehnomus Journal New Tecchnologies and Products in Machine Manufacturing Technologies*, pp. 67 – 72, ISSN-2247-6016
http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2017/files/10.pdf
9. Roșu, A., Roșu, B., **Arseni, M.**, Constantin, D. E., Voiculescu, M., Georgescu, L. P., ... & Van Roozendaal, M. (2017). Tropospheric nitrogen dioxide measurements in south-east of Romania using zenith-sky mobile DOAS observations. *Tehnomus Journal New Tecchnologies and Products in Machine Manufacturing Technologies*, pp. 189 – 195, ISSN-2247-6016
http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2017/files/32.pdf
10. Iulian Racoviță, Oana Istrate, Ionuț-Dorin Marin, Alexandru-Ionuț Angheluță, Andreea-Elisa Reclaru, Mihai Daniel Dragu, Dan Munteanu, Bogdan Rosu, Gabriel Murariu, **Maxim Arseni** (2018). The use of kmean method in the chromatic analysis of satellite imagery. Study case - Independenta forest - between 2013-2017. *Annals of “Dunarea de Jos” University of Galati,*

- Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year (XLI) 2018, Special Issue, pp. 18-22, ISSN 2067 – 2071.
http://www.phys.ugal.ro/Annals_Fascicle_2/year2018/summary2.htm
11. **Maxim Arseni**, Adrian Roșu, Lucian Puiu Georgescu, Gabriel Murariu, Bogdan Roșu (2018). Assessing flooded surface area using Landsat satellite data on The Siret River downstream of the Lower Danube. Annals of “Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year (XLI) 2018, Special Issue, pp. 11-17, ISSN 2067 – 2071.
http://www.phys.ugal.ro/Annals_Fascicle_2/year2018/summary2.htm
 12. Adrian Roșu, Bogdan Roșu, Daniel-Eduard Constantin, Mirela Voiculescu, **Maxim Arseni**, Gabriel Murariu, and Lucian Puiu Georgescu Correlations between NO2 distribution maps using gis and mobile DOAS measurements in Galati City. Annals of “Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year (XLI) 2018, Special Issue, pp. 22-31, ISSN 2067 – 2071.
http://www.phys.ugal.ro/Annals_Fascicle_2/year2018/summary2.htm
 13. Mihaela Timofti, Catalina Iticescu, **Maxim Arseni**, Madalina Calmuc, Valentina-Andreea, Calmuc, Lucian Puiu Georgescu. Preliminary Analysis on the River Danube Water Quality by Using Different Kinds of Methods. International Journal of Bioscience, Biochemistry and Bioinformatics. Volume 9, Number 1, January 2019, pp. 65-72
<http://www.ijbbb.org/vol9/507-S2012.pdf>
 14. Rosu, A., Roșu, B., Constantin, D., Voiculescu, **M., Arseni, M.**, Calmuc, V., Iticescu, C. and Georgescu, P. (2018) “Overview of NO2 pollution level in the lower Danube basin during DANS measurements campaign”, Analele Universității ”Dunărea de Jos” din Galați. Fascicula II, Matematică, fizică, mecanică teoretică / Annals of the ”Dunarea de Jos” University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 41(2), pp. 163-170.
<http://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/2518>
 15. Cotloguț, I., Țopa, M., Timofti, M., Murariu, G., **Arseni, M.**, Iticescu, C. and Georgescu, L. (2018) “Assessment of chemical parameters in the lower Danube”, Analele Universității ”Dunărea de Jos” din Galați. Fascicula II, Matematică, fizică, mecanică teoretică / Annals of the ”Dunarea de Jos” University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 41(2), pp. 196-203. <http://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/2524>
 16. Roșu, A., Constantin, D., **Maxim, A.**, Timofti, M., Voiculescu, M., Roșu, B., Călmuc, V. and Chelmuș, A. (2018) “Study of air quality in the museum environment. Galati study case”, Analele Universității ”Dunărea de Jos” din Galați. Fascicula II, Matematică, fizică, mecanică teoretică / Annals of the ”Dunarea de Jos” University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 41(2), pp. 204-211.
<http://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/2525>
 17. **Arseni, M.**, Roșu, A., Iticescu, C., Georgescu, L., Timofti, M., Pintilie, V., Călmuc, M. and Roman, O. (2018) “A review of bathymetric measurements from August 2018 campaign on the lower course of the Danube”, Analele Universității ”Dunărea de Jos” din Galați. Fascicula II, Matematică, fizică, mecanică teoretică / Annals of the ”Dunarea de Jos” University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 41(2), pp. 212-219.
<http://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/2526>
 18. **Maxim Arseni**, Adrian Roșu, Lucian P. Georgescu, Cătălina Iticescu, Roman Octavian, Mihaela Timofti, Mădălina Călmuc, Valentina Călmuc. The Role of River Channel Roughness for Water Level Modeling During the 2005-Year Flood on Siret River Using Hec-Ras Model. Annals of the ”Dunarea de Jos” University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 2019, 42(1), pp. 68-76;
[doi: https://doi.org/10.35219/ann-ugal-math-phys-mec.2019.1.10.](https://doi.org/10.35219/ann-ugal-math-phys-mec.2019.1.10)
 19. Roșu, A., Constantin, D.-E., Roșu, B., **Arseni, M.**, Voiculescu, M., Iticescu, C. and Georgescu, L. P. Impact of selecting different reference spectra on errors in doas analysis”, Analele Universității ”Dunărea de Jos” din Galați. Fascicula II, Matematică, fizică, mecanică teoretică /

- Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 2019, 42(1), pp. 109-116. <https://doi.org/10.35219/ann-ugal-math-physics-mec.2019.1.17>
20. **Arseni Maxim**, Rosu Adrian, Georgescu Puiu Lucian, Iticescu Catalina, Calmuc Valentina, Calmuc Madalina. Impact of expansion and contraction coefficients on water surface profile. Tehnomus Journal, 2019, pp. 60-65
http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2019/files/09.pdf
 21. Călmuc Valentina-Andreea, Călmuc Mădălina, Georgescu P. Lucian, Iticescu Catalina, Timofti Mihaela, **Arseni Maxim**, Țopa Cătălina, Roșu Adrian. Spatial distribution of heavy metals in the Danube surface sediment near the Galati City. Tehnomus Journal, 2019, pp. 66-70
http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2019/files/10.pdf
 22. Adrian Roșu, Daniel-Eduard Constantin, Bogdan Roșu, Valentina Calmuc, **Maxim Arseni**, Mirela Voiculescu, Lucian Puiu Georgescu. Mobile measurements of nitrogen dioxide using two different uv-vis spectrometers. Tehnomus Journal, 2019, pp. 71-76
http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2019/files/11.pdf
 23. Călmuc Mădălina, Călmuc Valentina-Andreea, Iticescu Catalina, Georgescu P. Lucian, Timofti Mihaela, **Arseni Maxim**, Țopa Maria Cătălina, Roșu Adrian. Assessing the lower Danube water quality using the water pollution index. Tehnomus Journal, 2019, pp. 77-81
http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2019/files/12.pdf
 24. Calmuc, V. A., Călmuc, M., **Arseni, M.**, Iticescu, C., & Georgescu, L. P. (2020). Preliminary statistical relationship between heavy metals in Lower Danube sediments. Analele Universității "Dunărea de Jos" din Galați. Fascicula II, Matematică, fizică, mecanică teoretică/Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 43(1), 62-67.
<https://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/3993/3528>
 25. Calmuc, M., Calmuc, V. A., Georgescu, L. P., Iticescu, C., & Arseni, M. (2020). Assessment of nutrients and oxygen regime in the Lower Danube water. Analele Universității "Dunărea de Jos" din Galați. Fascicula II, Matematică, fizică, mecanică teoretică/Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 43(1), 68-74.
<https://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/3994/3529>

4. PARTICIPARI LA CONFERINTE INTERNATIONALE (DIN TARA SI STRAINATATE)

1. **Arseni, M.**, Georgescu, L. P., Circiumaru, A., & Mugurel, E. C. (2015). The influence of the atmospheric temperature value on the accuracy of distance measurement with the surveying total station. The third edition of the Scientific Conference organised by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG 2015), 4-5 June 2015., P.P. 4.3
<http://www.cssd-udjg.ugal.ro/index.php/2015/abstracts-2015>
2. **Arseni, M.**, Georgescu, L. P., & Mugurel, E. C. (2015). Analysis of the influence of relative humidity on the accuracy of distance measurement with total stations. The third edition of the Scientific Conference organised by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG 2015), 4-5 June 2015, P.P. 4.5
<http://www.cssd-udjg.ugal.ro/index.php/2015/abstracts-2015>
3. **Maxim Arseni**, Lucian Georgescu, Catalina Topa, Gabriel Murariu (2015). A Note about the Atmospheric Parameters' Influence on the Sensibility of the Topographic Instruments. The third edition of the Scientific Conference organised by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG 2015), 4-5 June 2015, P.P. 1.10
<http://www.cssd-udjg.ugal.ro/index.php/2015/abstracts-2015>
4. Gabriel Murariu, Valentin Hahuie, Lucian Georgescu, **Maxim Arseni** and Adrian Gabriel Murariu, Improving Orthophotoplans And Patterns Construct of Land by Using Aerial Photographs Captured Using UAV. Case Study - Forest Garboavele, TIM 15 - 16 - INTERNATIONAL PHYSICS CONFERENCE West University of Timisoara, 26th – 28th of May 2016
https://timconference.uvt.ro/archive/tim15-16/TIM15-16_Conference%20Schedule.pdf
5. Gabriel Murariu, Valentin Hahuie, Lucian Georgescu, **Maxim Arseni** and Adrian Gabriel Murariu, Investigation On Satellitar And UAV Cadastral Results. Case Study - Galati County Forest Areas, TIM 15 - 16 - INTERNATIONAL PHYSICS CONFERENCE, West University of Timisoara, 26th – 28th of May 2016
https://timconference.uvt.ro/archive/tim15-16/TIM15-16_Conference%20Schedule.pdf
6. Gabriel Murariu, Valentin Hahuie, Lucian Georgescu, **Maxim Arseni** and Adrian Gabriel Murariu, Study on the Influence of Atmosheric Parameters on the Accuracy Of The Geodetic Measurements, TIM 15 - 16 - INTERNATIONAL PHYSICS CONFERENCE, West University of Timișoara, 26th – 28th of May 2016
https://timconference.uvt.ro/archive/tim15-16/TIM15-16_Conference%20Schedule.pdf
7. **Arseni, M.**, Georgescu, L. P., & Murariu, G. (2016). Photogrammetric aplications using UAV systems. The 4th edition of the Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG), on 2nd and 3rd of June 2016, in Galati, P.P. 4.2
<http://www.cssd-udjg.ugal.ro/index.php/2016/abstracts>
8. **Arseni, M.**, Roșu, A., Nicolae A. F. , Georgescu L. P. & Constantin, D. E., (2017). Comparison of models and volumetric determination for Catusa lake, Galati. THE 19th INTERNATIONAL CONFERENCE “NEW TECHNOLOGIES AND PRODUCTS IN MACHINE MANUFACTURING TECHNOLOGIES” TEHNOMUS XIX, May 12-13, 2017 Suceava - ROMANIA
<http://www.tehnomus.usv.ro>
9. Roșu, A., Roșu, B., **Arseni, M.**, Constantin, D. E., Voiculescu, M., Georgescu, L. P., ... & Van Roozendaal, M. (2017). Tropospheric nitrogen dioxide measurements in south-east of Romania using zenith-sky mobile DOAS observations. THE 19th INTERNATIONAL CONFERENCE “NEW TECHNOLOGIES AND PRODUCTS IN MACHINE MANUFACTURING TECHNOLOGIES” TEHNOMUS XIX, May 12-13, 2017 Suceava – ROMANIA
<http://www.tehnomus.usv.ro/>

10. **Arseni, M.**, Rou, A., Bocaneala, C., Constantin, D. E., & Georgescu, L. P. (2016). Flood hazard monitoring using GIS and remote sensing observations. 11th INTERNATIONAL CONFERENCE ELSESEDIMA “ENVIRONMENTAL LEGISLATION, SAFETY ENGINEERING AND DISASTER MANAGEMENT” BUILDING DISASTER RESILIENCE IN A CHANGING WORLD, 26-28 MAY 2016, CLUJ-NAPOCA, BABEȘ-BOLYAI UNIVERSITY, ROMANIA
<http://enviro.ubbcluj.ro/international-conference-elsedima-2016-2/>
11. Constantin, D. E., Merlaud, A., Voiculescu, M., Van Roozendaal, M., **Arseni, M.**, Rosu, A., & Georgescu, L. (2016). NO2 and SO2 observations in southeast Europe using mobile DOAS observations. 11th INTERNATIONAL CONFERENCE ELSESEDIMA “ENVIRONMENTAL LEGISLATION, SAFETY ENGINEERING AND DISASTER MANAGEMENT” BUILDING DISASTER RESILIENCE IN A CHANGING WORLD, 26-28 MAY 2016, CLUJ-NAPOCA, BABEȘ-BOLYAI UNIVERSITY, ROMANIA
<http://enviro.ubbcluj.ro/international-conference-elsedima-2016-2/>
12. A. Roșu, B. Roșu, D. E. Constantin, **M. Arseni**, C. Bocăneală, L. P. Georgescu, Estimation of NO2 Concentrations Derived From DOAS Mobile Measurement in South-East of Romania. Conferința International U.A.B. – B.EN.A. Conference Environmental Engineering And Sustainable Development Alba Iulia, Romania May 25-27th, 2017, , P.P. 108 Section 1
http://www.uab.ro/upload/227_CONFERENCE%20%20PROGRAM_24mai.pdf
13. **Arseni Maxim**, Roșu Adrian, Georgescu Lucian, Murariu Gabriel, Assessing flooded surface area Using Landsat satellite data on Siret River downstream of lower Danube. Conferința International U.A.B. – B.EN.A. Conference Environmental Engineering And Sustainable Development Alba Iulia, Romania May 25-27th, 2017, P.P. 4 Section 1
http://www.uab.ro/upload/227_CONFERENCE%20%20PROGRAM_24mai.pdf
14. **Maxim Arseni**, Adrian Rosu, Lucian Puiu Georgescu, Gabriel Murariu (2017). A Research of Remaining Storage Volume on Tirighina Solid Waste System. The 5th edition of the Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galati (CSSD-UDJG), on 8th and 9th of June 2017, in Galati, Romania, P.P. 4.10
<http://www.cssd-udjg.ugal.ro/index.php/2017/abstracts-2017>
15. Adrian Roșu, Bogdan Roșu, **Maxim Arseni**, Corina Bocăneală, Daniel-Eduard Constantin, Mirela Voiculescu, Lucian Puiu Georgescu. Determination of Nitrogen Dioxide Using a New Doas Instrument with two Dimensional Axes. The 5th edition of the Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galati (CSSD-UDJG), on 8th and 9th of June 2017, in Galati, Romania, P.P. 4.11
<http://www.cssd-udjg.ugal.ro/index.php/2017/abstracts-2017>
16. **Maxim Arseni**, Mari-Catalina Topa, Lucian Puiu Georgescu, Gabriel Murariu, Ionel Popa, Octavian Roman. Analyzing different interpolation method for creating 3D bathymetric models. Case study: Siret River. 12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, on 17-19 May 2018, in Cluj-Napoca, Romania., P.P. 5 Session A
http://www.elsedima.ro/admin/media/Preliminary-Agenda_ELSEDIMA-2018-International-Conference.pdf
17. **Maxim Arseni**, Adrian Rosu, Gabriel Murariu, Lucian Puiu Georgescu, Maria-Catalina Topa, Lucian Dinca. Calibration of channel roughness for flood mapping on lower Siret River using HEC-RAS model. 12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, on 17-19 May 2018, in Cluj-Napoca, Romania, P.P. 6 Session A
http://www.elsedima.ro/admin/media/Preliminary-Agenda_ELSEDIMA-2018-International-Conference.pdf
18. Corina Bocaneala, Daniel-Eduard Constantin, Adrian Rosu, **Maxim Arseni** and Mirela Voiculescu. The evolution of NO2 and SO2 emissions for some large power plants located in

- Romania and Europe. 12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, on 17-19 May 2018, in Cluj-Napoca, Romania, P.P. 10 Session A
http://www.elsedima.ro/admin/media/Preliminary-Agenda_ELSEDIMA-2018-International-Conference.pdf
19. Adrian Rosu, Bogdan Rosu, **Maxim Arseni**, Daniel-Eduard Constantin, Mirela Voiculescu, Lucian Puiu Georgescu, Gabriel Murariu, Alexis Merlaud, Michel Van Roozendaal. A synergistic approach in detection of NO₂ using MAX-DOAS and ZSL-DOAS observation in South-East of Romania. 12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, on 17-19 May 2018, in Cluj-Napoca, Romania, P.P. 30 Session B
http://www.elsedima.ro/admin/media/Preliminary-Agenda_ELSEDIMA-2018-International-Conference.pdf
 20. Adrian Rosu, Bogdan Rosu, Daniel-Eduard Constantin, **Maxim Arseni**, Lucian Puiu Georgescu, Gabriel Murariu, Ionel Popa. Overview of tropospheric NO₂ using OMI observations over the world. 12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, on 17-19 May 2018, in Cluj-Napoca, Romania, P.P. 32 Session B
http://www.elsedima.ro/admin/media/Preliminary-Agenda_ELSEDIMA-2018-International-Conference.pdf
 21. **Maxim Arseni**, Adrian Rosu, Lucian Puiu Georgescu, Gabriel Murariu, Bogdan Rosu, Ionel Popa. Flood risk assessment using hec-ras modelling: a case study on the lower course of Siret River. TIM 18 - INTERNATIONAL PHYSICS CONFERENCE West University of Timisoara, 24th – 26th of May 2016, P.P. AI-P09 Session 2
https://timconference.uvt.ro/upload/Conference_Schedule_TIM18.pdf
 22. Adrian Roşu, Bogdan Roşu, Daniel-Eduard Constantin, **Maxim Arseni**, Gabriel Murariu, Lucian Puiu Georgescu and Ionel Popa. Correlations between NO₂ and O₃ over most polluted areas of the world using OMI measurements. TIM 18 - INTERNATIONAL PHYSICS CONFERENCE West University of Timisoara, 24th – 26th of May 2016, P.P. AI-P11 Session 2
https://timconference.uvt.ro/upload/Conference_Schedule_TIM18.pdf
 23. **Maxim Arseni**, Adrian Roşu, Lucian Puiu Georgescu, Gabriel Murariu, Bogdan Roşu. Flash Flood Mapping Using Landsat Satellite Images and GIS Tools: A Case Study of Siret River Downstream Part. The 6th edition of the Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galati (CSSD-UDJG), on 7th and 8th of June 2018, in Galati, Romania, PP. 2.4
<http://www.cssd-udjg.ugal.ro/index.php/abstracts-2018>
 24. Adrian Roşu, Bogdan Roşu, Daniel-Eduard Constantin, **Maxim Arseni**, Gabriel Murariu, Lucian Puiu Georgescu. Correlations Between NO₂ Prediction Map and DOAS Mobile Measurement in Galati City. The 6th edition of the Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galati (CSSD-UDJG), on 7th and 8th of June 2018, in Galati, Romania., PP. 2.5.
<http://www.cssd-udjg.ugal.ro/index.php/abstracts-2018>
 25. Iticescu Catalina, Lucian P. Georgescu, Timofti Mihaela, Murariu Gabriel, Catalina Ţopa, Dima Dumitru, **Maxim Arseni**, Adrian Roşu. The solutions for use the sewage sludge of Municipal Wastewater Treatment Plant (WWTP) of Galati City. UGAL International Conference Multidisciplinary HUB for the Higher Education Internationalization by Means of Innovative Interaction with the Labour Market and Society, 26th – 27th of October, 2018, P.P. 26 Section 6
<http://www.fdi.ugal.ro/index.php/ro/conference-home>
 26. Roşu Adrian, Roşu Bogdan, Constantin Daniel-Eduard, Voiculescu Mirela, **Arseni Maxim**, Calmuc Valentina , Lucian Puiu Georgescu. Overview of no₂ and other trace gases pollution level in the Lower Danube basin during DANS measurement campaign. UGAL International Conference Multidisciplinary HUB for the Higher Education Internationalization by Means of

- Innovative Interaction with the Labour Market and Society, 26th – 27th of October, 2018, P.P. 47 Section 6
<http://www.fdi.ugal.ro/index.php/ro/conference-home>
27. **Arseni Maxim**, Rosu Adrian, Iticescu Catalina, Georgescu Puiu Lucian, Timofti Mihaela, Violeta Pintilie, Calmuc Madalina, Roman Octavian. A review of bathymetric measurements from August 2018 campaign on the lower course of Danube River. UGAL International Conference Multidisciplinary HUB for the Higher Education Internationalization by Means of Innovative Interaction with the Labour Market and Society, 26th – 27th of October, 2018, P.P. 69 Section 6
<http://www.fdi.ugal.ro/index.php/ro/conference-home>
 28. Catalina Iticescu, Lucian Georgescu, Gyorgy Deak, **Maxim Arseni**, Adrian Rosu, The composition of sewage sludge from treatment plants in the South-East region of Romania, 9th International Conference on Biology, Environment and Chemistry (ICBEC 2018), Seoul, South Korea, October 10-12, 2018.
<http://www.icbec.org/>
 29. Catalina Iticescu, Lucian P. Georgescu, Mihaela Timofti, Gabriel Murariu, Catalina Țopa, Dima Dumitru, Maxim Arseni, Adrian Roșu, The solutions for use the sewage sludge of Municipal Wastewater Treatment Plant (WWTP) of Galati City, Conference Multidisciplinary HUB for the Higher Education Internationalization by Means of Innovative Interaction with the Labour Market and Society, 26th-27th of October, 2018, P.P 26 Section 6
<http://www.fdi.ugal.ro/index.php/ro/conference-home>
 30. **Maxim Arseni**, Adrian Roșu, Lucian P. Georgescu, Cătălina Iticescu, Roman Octavian, Mihaela Timofti, Mădălina Călmuc, Valentina Călmuc. The Role of River Channel Roughness for Water Level Modeling During the 2005-Year Flood on Siret River Using Hec-Ras Model. Scientific Conference of Doctoral Schools SCDS-UDJG 2019, 7th Edition, 13-14 of June, Galati, P.P. 2.10.
<http://cssd-udjg.ugal.ro/index.php/abstracts-2019>
 31. Cătălina Iticescu, Lucian Georgescu, Mihaela Timofti, Cătălina Țopa, Camen Cătălina Angheluță, Gabriel Murariu, Mădălina Călmuc, Valentina Călmuc, **Maxim Arseni**, Adrian Roșu. The Impact of Industrial Pollution on Water Quality in Galati City. 2019 International Conference on Environment Sciences and Renewable Energy (ESRE 2019), May 27-29, 2019 Bali, Indonesia
<http://esre.org/ESRE2019program.pdf>
 32. Adrian Roșu, Daniel-Eduard Constantin, Mihaela Timofti, Mirela Voiculescu, Cătălina Iticescu, Bogdan Roșu, **Arseni Maxim**. Assessing the air pollution conditions in which outdoor cultural heritage objects from Galați city (Romania) are found. 2019 International Conference on Environment Sciences and Renewable Energy (ESRE 2019), May 27-29, 2019 Bali, Indonesia
<http://esre.org/ESRE2019program.pdf>
 33. Mihaela Timofti, Catalina Iticescu, Madalina Calmuc, Valentina Andreea Calmuc, Adrian Rosu, **Maxim Arseni**, Lucian P. Georgescu. Long-Term Assessment of Danube River Water Quality Before its Discharge into the Danube Delta. 2019 International Conference on Environment Sciences and Renewable Energy (ESRE 2019), May 27-29, 2019 Bali, Indonesia
<http://esre.org/ESRE2019program.pdf>
 34. Adrian Roșu, Daniel-Eduard Constantin, Bogdan Roșu, Maxim Arseni, Lucian Puiu Georgescu. Assessing the Errors Obtained from Using Different Reference Spectra in DOAS Analysis. Scientific Conference of Doctoral Schools SCDS-UDJG 2019, 7th Edition, 13-14 of June, Galati, P.P. 2.11.
<http://www.cssd-udjg.ugal.ro/index.php/programme-2019>
 35. Mădălina Călmuc, Cătălina Iticescu, Cătălina Țopa, Mihaela Timofti, Lucian P. Georgescu, Gabriel Murariu, Valentina Călmuc, Ionela Cotloguț, Adrian Roșu, Maxim Arseni. Testing the Applicability of Different Physico-Chemical Indices for Assessing Water Quality in the Lower Danube. Scientific Conference of Doctoral Schools SCDS-UDJG 2019, 7th Edition, 13-14 of June, Galati, P.P. 2.12.
<http://www.cssd-udjg.ugal.ro/index.php/programme-2019>

36. Valentina Călmuc, Cătălina Iticescu, Cătălina Țopa, Mihaela Timofti, Lucian P. Georgescu, Maxim Arseni, Gabriel Murariu, Mădălina Călmuc, Adrian Roșu. Assessing the Contamination Level and Ecological Risk of Heavy Metals in the Lower Danube Sediment by Using Different Pollution Indices. Scientific Conference of Doctoral Schools SCDS-UDJG 2019, 7th Edition, 13-14 of June, Galati, P.P. 2.13.
<http://www.cssd-udjg.ugal.ro/index.php/programme-2019>
37. Arseni Maxim, Rosu Adrian, Georgescu Puiu Lucian, Iticescu Catalina, Calmuc Valentina, Calmuc Madalina. Impact of expansion and contraction coefficients on water surface profile. The 20th Edition of the International Conference TEHNOMUS NEW TECHNOLOGIES AND PRODUCTS IN MACHINE MANUFACTURING TECHNOLOGIES, Section 3 Environmental engineering and sustainable development, Oral presentation no. 2
<http://www.tehnomus.usv.ro/>
38. Călmuc Valentina-Andreea, Călmuc Mădălina, Georgescu P. Lucian, Iticescu Catalina, Timofti Mihaela, Arseni Maxim, Țopa Cătălina, Roșu Adrian. Spatial distribution of heavy metals in the Danube surface sediment near the Galati City. The 20th Edition of the International Conference TEHNOMUS NEW TECHNOLOGIES AND PRODUCTS IN MACHINE MANUFACTURING TECHNOLOGIES, Section 3 Environmental engineering and sustainable development, Oral presentation no. 3
<http://www.tehnomus.usv.ro/>
39. Adrian Roșu, Daniel-Eduard Constantin, Bogdan Roșu, Valentina Calmuc, Maxim Arseni, Mirela Voiculescu, Lucian Puiu Georgescu. Mobile measurements of nitrogen dioxide using two different uv-vis spectrometers. The 20th Edition of the International Conference TEHNOMUS NEW TECHNOLOGIES AND PRODUCTS IN MACHINE MANUFACTURING TECHNOLOGIES, Section 3 Environmental engineering and sustainable development, Oral presentation no. 5
<http://www.tehnomus.usv.ro/>
40. Călmuc Mădălina, Călmuc Valentina-Andreea, Iticescu Catalina, Georgescu P. Lucian, Timofti Mihaela, Arseni Maxim, Țopa Maria Cătălina, Roșu Adrian. Assessing the lower Danube water quality using the water pollution index. The 20th Edition of the International Conference TEHNOMUS NEW TECHNOLOGIES AND PRODUCTS IN MACHINE MANUFACTURING TECHNOLOGIES, Section 3 Environmental engineering and sustainable development, Oral presentation no. 4
<http://www.tehnomus.usv.ro/>
41. Calmuc, V. A., Călmuc, M., **Arseni, M.**, Iticescu, C., & Georgescu, L. P. (2020). Preliminary statistical relationship between heavy metals in Lower Danube sediments. Scientific Conference of Doctoral Schools SCDS-UDJG 2020, 8th Edition, 18-19 of June, Galati, P.P. 2.2.
<http://www.cssd-udjg.ugal.ro/index.php/abstracts-20201>
42. Calmuc, M., Calmuc, V. A., Georgescu, L. P., Iticescu, C., & Arseni, M. (2020). Assessment of nutrients and oxygen regime in the Lower Danube water. Scientific Conference of Doctoral Schools SCDS-UDJG 2020, 8th Edition, 18-19 of June, Galati, P.P. 2.3.
<http://www.cssd-udjg.ugal.ro/index.php/abstracts-20201>
43. Maxim Arsenia, Adrian Rosu, Octavian Roman, Madalina Calmuc, Valentina Calmuc, Catalina Iticescu, Puiu Lucian Georgescu (2020). Comparison of vertical accuracy of DEM from satellite-derived data, Lidar and river depth sounding for hydrodynamic modeling. Scientific Conference of Doctoral Schools SCDS-UDJG 2020, 8th Edition, 18-19 of June, Galati, P.P. 2.1.
<http://www.cssd-udjg.ugal.ro/index.php/abstracts-20201>
44. Adrian Roșu, Maxim Arseni, Daniel Eduard Constantin, Mirela Voiculescu, Puiu Georgescu Lucian, Bogdan Roșu, Madalina Calmuc and Valentina Calmuc. (2020). Comparison of NO₂ pollution level in Galați city before COVID-19 and during the quarantine. Scientific Conference of Doctoral Schools SCDS-UDJG 2020, 8th Edition, 18-19 of June, Galati, P.P. 2.6.
45. <http://www.cssd-udjg.ugal.ro/index.php/abstracts-20201>

46. Madalina Calmuc, Valentina Andreea Calmuc, Maxim Arseni, Constantin Apetrei, Lucian P. Georgescu, Catalina Iticescu (2021). Application of ATR-FTIR spectroscopy for plastic debris identification in the Lower Danube water. Scientific Conference of Doctoral Schools SCDS-UDJG 2021, 9th Edition, 10-11 of June, Galati, P.P. 1.2.
<http://www.cssd-udjg.ugal.ro/index.php/programme-21>
47. Valentina Andreea Calmuc, Madalina Călmuc , Maxim Arseni, Catalina Iticescu, Lucian P. Georgescu (2021). Occurrence of pharmaceuticals in the Danube River Basin - A review. Conference of Doctoral Schools SCDS-UDJG 2021, 9th Edition, 10-11 of June, Galati, P.P. 1.1.
<http://www.cssd-udjg.ugal.ro/index.php/programme-21>
48. Bogdan Roșu, Larisa Condrachi, Adrian Roșu, Maxim Arseni, Gabriel Murariu (2021). Optimizing the Performance of a Simulated Wastewater Treatment Plant by the Relaxation Method. 17th International Conference on European Integration - Realities and Perspectives, Danubius University, Bulevard Galati, no 3, Galati 800654, Galati, RO, May 12, 2022 – May 14, 2022
<https://dp.univ-danubius.ro/index.php/EIRP/article/view/211>
49. Bogdan Rosu, Larisa Condrachi, Adrian Roșu, Maxim Arseni, Gabriel Murariu. (2021). Optimization of Nitrification and Denitrification Processes in a Simulated Wastewater Treatment Plant. Danubius International Conferences, 11th International Conference The Danube - Axis of European Identity, June 29, 2021
<http://conferences.univ-danubius.ro/index.php/DAIE/DAIE2021/paper/view/2636>
50. Valentina Andreea Calmuc, Madalina Calmuc, Maxim Arseni, Adrian Burada, Catalina Iticescu, Puiu-Lucian Georgescu. Spatial and seasonal variations of sediment pollution indices in the Lower Danube River. „Deltas & Wetlands” DDNI Scientific Event Community, 28-th edition, Deltas & Wetlands DDNI International Symposium, Tulcea, September 13 - 18, 2021
http://ddni.ro/wps/wp-content/uploads/2021/09/DELTASWETLANDS_Program_2021_10092021v2.pdf
51. Mădălina Calmuc, Valentina Andreea Calmuc, Maxim Arseni, Adrian Rosu, Puiu-Lucian Georgescu, Cătălina Iticescu. Methods for sampling and separation of microplastics from the Lower Danube River water. „Deltas & Wetlands” DDNI Scientific Event Community, 28-th edition, Deltas & Wetlands DDNI International Symposium, Tulcea, September 13 - 18, 2021
http://ddni.ro/wps/wp-content/uploads/2021/09/DELTASWETLANDS_Program_2021_10092021v2.pdf
52. Stefan-Mihai PETREA, Ira-Adeline SIMIONOV, Alina ANTACHE, Aurelia NICA, Maxim ARSENI, Adrian ROȘU, Dragos CRISTEA, Mihaela NECULITA. PHYTOREMEDIATION CAPACITY AND PHOSPHORUS MASS BALANCE IN A BASILSTURGEONS AQUAPONICS INTEGRATED RECIRCULATING SYSTEM. Eleventh Anniversary Edition of the International Conference "Agriculture for Life, Life for Agriculture", organized by the University of Agronomic Sciences and Veterinary Medicine of Bucharest between 2nd and 4th June 2022– prezentare poster
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
53. Maxim ARSENI, Adrian ROȘU, Stefan Mihai PETREA, Madalina CALMUC, Bogdan ROSU, Daniel-Eduard CONSTANTIN, Catalina ITICESCU, Puiu Lucian GEORGESCU. THE POSITIVE EFFECTS OF CHANNELS RESTORATION IN THE DANUBE DELTA BIOSPHERE RESERVE. Eleventh Anniversary Edition of the International Conference "Agriculture for Life, Life for Agriculture", organized by the University of Agronomic Sciences and Veterinary Medicine of Bucharest between 2nd and 4th June 2022– prezentare poster
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
54. Madalina CALMUC, Valentina Andreea CALMUC, Maxim ARSENI, Ira-Adeline SIMIONOV, Alina ANTACHE, Constantin APETREI, Puiu-Lucian GEORGESCU, Catalina ITICESCU. IDENTIFICATION AND CHARACTERIZATION OF PLASTIC PARTICLES FOUND IN

- THE LOWER DANUBE RIVER. Eleventh Anniversary Edition of the International Conference "Agriculture for Life, Life for Agriculture", organized by the University of Agronomic Sciences and Veterinary Medicine of Bucharest between 2nd and 4th June 2022– prezentare poster
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
61. Bogdan ROSU, Adrian ROȘU, Maxim ARSENI, Stefan-Mihai PETREA, Catalina ITICESCU, Puiu Lucian GEORGESCU. THE EFFECTS OF OPTIMIZING A SIMULATED WASTEWATER TREATMENT PLANT ON EFFLUENT QUALITY. Eleventh Anniversary Edition of the International Conference "Agriculture for Life, Life for Agriculture", organized by the University of Agronomic Sciences and Veterinary Medicine of Bucharest between 2nd and 4th June 2022– prezentare poster
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
 62. Adrian ROSU, Maxim ARSENI, Bogdan, ROSU, Stefan-Mihai PETREA, Catalina ITICESCU, Puiu Lucian GEORGESCU. STUDY OF THE INFLUENCE OF MANNING PARAMETER VARIATION FOR WATERFLOW SIMULATION IN DANUBE DELTA, ROMANIA. Eleventh Anniversary Edition of the International Conference "Agriculture for Life, Life for Agriculture", organized by the University of Agronomic Sciences and Veterinary Medicine of Bucharest between 2nd and 4th June 2022– prezentare poster
<https://landreclamationjournal.usamv.ro/pdf/2022/vol2022.pdf>
 63. Călmuc, M.; Călmuc, V. A.; Arseni M.; Georgescu, P.L.; Iticescu, C.; Microplastics Characterization and Quantification Using Micro-FTIR Spectroscopy. The 10th Edition of the International Scientific Conference of DJUG Doctoral Schools 2022, 9-10 iunie 2022. Galați, România.
 64. Călmuc, V. A.; Călmuc, M.; Arseni M.; Iticescu, C.; Georgescu, P.L.; Identification and Quantification of Pharmaceuticals in the Lower Danube River using UHPLC - Orbitrap Mass Spectrometer. The 10th Edition of the International Scientific Conference of DJUG Doctoral Schools 2022, 9-10 iunie 2022, Galați, România.
 65. Arseni Maxim, Voiculescu Mirela, Georgescu Puiu Lucian, Iticescu Cătălina si Roșu Adrian. Testarea diferitelor metode de interpolare bazate pe masuratori batimetrice monofascicul. Studiu de caz: Râul Siret. 6-9 iulie 2022, Galați, workshop interdisciplinar: "Abordări moderne ale feedbackului între procese de mediu și schimbările climatice".
 66. Roșu, B., Murariu, G., Roșu, A., Iticescu, C., Mocanu, G., Tupu, E., & Arseni, M. (2023, September). Optimizing the energy cost function for a wastewater treatment plant model by employing dynamic generation of a two-dimensional reference point. In 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA) (pp. 1-4). IEEE. – prezentare poster
 67. Roșu, B., Murariu, G., Arseni, M., Iticescu, C., Mocanu, G. D., Simionescu, N. L., & Roșu, A. (2023, September). Study on optimizing the effluent quality parameters for a simulated wastewater treatment plant using dynamic two-dimensional reference point generation: A comparative approach. In 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA) (pp. 1-4). IEEE - prezentare poster
 68. CALMUC, V. A., CALMUC, M., ARSENI, M., SIMIONOV, I. A., ANTACHE, A., MILEA, S. A., ... & GEORGESCU, P. L. (2023). SPATIAL DISTRIBUTION OF PHARMACEUTICALS IN THE LOWER DANUBE RIVER WATER. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 12. - prezentare poster
<https://landreclamationjournal.usamv.ro/pdf/2023/Art12.pdf>
 69. ROSU, A., ARSENI, M., CONSTANTIN, D. E., ROSU, B., PETREA, S. M., VOICULESCU, M., ... & GEORGESCU, L. P. (2023). STUDY OF AIR POLLUTION LEVEL IN AN URBAN AREA USING LOW-COST SENSOR SYSTEM ONBOARD MOBILE PLATFORM. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 12. - prezentare poster

70. <https://landreclamationjournal.usamv.ro/pdf/2023/Art16.pdf>
 PETREA, S. M., SIMIONOV, I. A., ANTACHE, A., NICA, A., ANTOHI, C., CRISTEA, D. S., ... & ITICESCU, C. (2023). MACHINE LEARNING-BASED MODELING FRAMEWORK FOR IMPROVING ROMANIAN RESILIENCE STRATEGY TO GREENHOUSE GAS EMISSIONS IN RELATION TO VISEGRAD GROUP. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 12. - prezentare poster
71. <https://landreclamationjournal.usamv.ro/pdf/2023/Art19.pdf>
72. ARSENI, M., ROMAN, O., CALMUC, M., CALMUC, V. A., ROSU, A., PETREA, S. M., ... & GEORGESCU, L. P. (2023). AN AUTOMATED METHOD FOR FORESTRY DETERMINATION USING A UAV LIDAR-MOUNTED PLATFORM. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 12. – prezentare poster
73. <https://landreclamationjournal.usamv.ro/pdf/2023/Art13.pdf>
74. Arseni Maxim, Calmuc Valentina Andreea, Topa Maria Catalina. Results regarding the determination of polluting areas from the point of view of geo-spatial location and pollution maps for the visualization of areas using GIS applications. 2SOFT1.2.139 NANOPURIMON – prezentare orală
75. Arseni Maxim. The Capability of REXDAN Research Infrastructure. ICCR 2023. 19-21 october 2023 – prezentare orală
76. Arseni Maxim, Roman Octavian, Rosu Adrian, Calmuc Madalina, Calmuc Valentina Andreea, Iticescu Catalina, Georgescu Puiu Lucian. MMS systems for a modern topography. ICCR 2023. 19-21 october 2023 – prezentare orală
77. Madalina Calmuc, Valentina Andreea Calmuc, Maxim Arseni, Adrian Roșu, Puiu-Lucian Georgescu, Catalina Iticescu. A methodology for the microplastics analysis in the Lower Danube sediment. SCDS-UDJG 2023 The Eleventh Edition, GALAȚI, 8th-9th of June 2023 – prezentare poster
78. [https://www.cssd-udjg.ugal.ro/images/2023/10/Book%20of%20abstract%202023%20\(1\).pdf](https://www.cssd-udjg.ugal.ro/images/2023/10/Book%20of%20abstract%202023%20(1).pdf)
79. Valentina Andreea Calmuc, Madalina Călmuc, Maxim Arseni, Catalina Iticescu, Puiu-Lucian Georgescu. Methods of extraction and analysis of pharmaceutical compounds from fish tissue. SCDS-UDJG 2023 The Eleventh Edition, GALAȚI, 8th-9th of June 2023 – prezentare poster
80. [https://www.cssd-udjg.ugal.ro/images/2023/10/Book%20of%20abstract%202023%20\(1\).pdf](https://www.cssd-udjg.ugal.ro/images/2023/10/Book%20of%20abstract%202023%20(1).pdf)
81. Arseni Maxim, Roman Octavian, Rosu Adrian, Calmuc Madalina, Calmuc Valentina Andreea, Iticescu Catalina, Georgescu Puiu Lucian. APPLICATION OF MOBILE MAPPING SYSTEM FOR GEOSPATIAL DATA ACQUISITION. ENVIROCLIM-2. 2023. September 20-23 – prezentare orală
82. Arseni Maxim, Roman Octavian. Laborator 7 BATIMETRIE, HIDROLOGIE, TOPOMETRIE (LBHT). Laborator 17 SISTEME BATIMETRIE (SBA) CONFERINȚA DE INCHIDERE A PROIECTULUI Sistem integrat pentru cercetarea și monitorizarea complexă a mediului în aria fluviului Dunărea, REXDAN. 15 decembrie 2023 – prezentare orală

5. IMPLEMENTARE PROIECTE

27.02.2024 – 31.12.2024	Manager proiect Proiect „Studiu de cercetare topografică utilizând tehnologia de scanare mobilă – MMS-1”, contract de finanțare nr. 819/09.02.2024 <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
08.01.2024 – 31.01.2024	Manager proiect si expert inginer topograf Proiect „Efectuarea de cercetari hidrografice pe Dunare CHD-1", contract de finantare nr. 815/18.10.2023. <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
Noiembrie 2023 - prezent	Cercetător – calitatea factorilor de mediu – I și elaborare de planuri holistice de actiune pentru restaurare ecosisteme acvatice Proiect „Restoration of wetland complexes as life supporting systems in the Danube Basin (Restore4Life)”, contract de finanțare 101112736/01.06.2023. <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
13.04.2023 - prezent	Cercetător – calitatea factorilor de mediu – I/Cercetător în ecologie și protecția mediului Proiect „Integrated research and sustainable solutions to protect and restore Lower Danube Basin and coastal Black Sea ecosystems - ResPonSE”, contract de finanțare nr. 760010/30.12.2022 <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
09.03.2023 - prezent	Cercetator in ecologie si protectia mediului, Proiect „HORIZON-MISS-2021-OCEAN-02, DANUBE REGION WATER LIGHTHOUSE ACTION”, nr. 101094070 – DALIA. <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
14.09.2022 – 01.12.2022	Manager proiect, Proiect de cercetare stiintifica: „Cercetari topografice prin metoda scanarii mobile si generarii unui nor de puncte aliniat si georeferentiat”, contract nr. 792/14.09.2022 <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
Iunie 2022 – Octombrie 2023	Cercetător în modelare hidromorfologică, Proiect „Advanced nanotechnology based approaches to waste water purification form organic pollutants and their monitoring in water bodies”, finanțat din fonduri europene nerambursabile, contract de finanțare: 2SOFT/1.2/139. <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
04.03.2021 - prezent	Inginer Topograf, Proiect „Îmbunătățirea condițiilor hidrologice în habitatele naturale acvatice din Rezervația Biosferei Delta Dunării pentru conservarea biodiversității și a resurselor halieutice - Complexele lacustre Sontea-Fortuna, Matita-Merhei, Somova-Parches”, nr. 274/27.09.2019, cod SMIS 120889 <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
03.08.2020 – 31.12.2024	Functia Inginer Topograf, asimilata postului in proiect de Expert tehnic laborator topo – geomorfologie – riscuri si hazarde Proiect: Sistem integrat pentru cercetarea si monitorizarea complexa a mediului in aria fluviului Dunarea, REXDAN", contract de finantare , nr. 309/10.07.2020. <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>

12.02.2020 - prezent	Responsabil partener/Manager proiect/Director proiect Proiect „Îmbunătățirea condițiilor hidrologice în habitatele naturale acvatice din Rezervația Biosferei Delta Dunării pentru conservarea biodiversității și a resurselor halieutice - Complexele lacustre Gorgova-Uzlina, Roșu-Puiu”, nr. 273/27.09.2019, cod SMIS 120890 <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
04.03.2020 - prezent	Responsabil partener/Manager proiect/Director proiect Proiect „Îmbunătățirea condițiilor hidrologice în habitatele naturale acvatice din Rezervația Biosferei Delta Dunării pentru conservarea biodiversității și a resurselor halieutice - Complexele lacustre Dunavăț-Dranov, Razim-Sinoie; Zona Sinoie-Istria-Nuntași”, nr. 275/27.09.2019, cod SMIS 120892. <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
22 iulie 2019 – 17 iunie 2022	Inginer topograf Proiect „Revizuirea planului de management si a regulamentului RBDD”, nr. 253/2019 <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
1 mai 2019 – 19 iun 2020	Asistent cercetare Proiect „Excelență, performanță și competitivitate în activități CDI la Universitatea "Dunărea de Jos" din Galați, EXPERT”, 14PFE/17.10.2018 <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
1 mai 2019 – 30 sept 2019	Inginer geodez Proiect “Technical Assistance for a Romanian Atmospheric Observation System (RAMOS) ESA”, contract de finanțare nr. 4000118115/16/NL/FF/gp./2017 <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
15 mai 2018 – 30 iun 2019	Consilier Cadastru Proiect “Strategie si actiuni pentru pregatirea participarii nationale la proiectul DANUBIUS – RI (DANS), finantat prin contract nr. 4/07.05.2018” <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
07 noi 2017 – 10 dec 2018	Inginer de cercetare in geodezie Proiect “Cercetari in sprijinul dezvoltarii capacitatii de evaluare si atenuare a impactului schimbarilor climatice si a altor factori de stress asupra starii ecosistemelor forestiere si a culturilor viticole, finantat prin contractual nr. 3PS/02.11.2017” <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
07 noi 2017 – 10 dec 2018	Inginer de cercetare in geodezie Proiect “Cercetari in sprijinul modernizarii sistemului national de monitorizare a ecosistemelor silvice prin utilizarea tehnicilor de teledetectie si a sistemelor de tip UAV, finantat prin contract nr. 6PS/02.11.2017” <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>
23 noi 2017 – 31 dec 2018	Cercetator in ecologie si protectia mediului Proiect “Tehnologii de valorificare a namolurilor rezultate din statiile de epurare orasenesi si a deseurilor din gropile de gunoi, finantat prin contractual nr. 731/16.11.2017” <i>Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47</i>

- 6 iulie 2017 – 4 august 2018 Cercetator in ecologie si protectia mediului
 Proiect “Proiect de cercetare asupra dispersiei emisiilor rezultate din instalatia de uscare, neutralizare si valorificare termica a namolului din cadrul SEAU-Braila”, contract de finantare nr. 721/04.07.2017
Universitatea „Dunărea de Jos” Galați, România, Str. Domneasca nr. 47
- Aprilie 2015 – Septembrie 2017 Voluntar în cadrul S.R.L. Topometrica Sistem
 Realizarea evidenței primare și unitare a străzilor și imobilelor, atribuirea denumirii străzii și a numărului administrativ, potrivit Legii Cadastrului și Publicității Imobiliare nr. 7/1996
- Nomenclator stradal Comuna Cudalbi, Comuna Brăhășești, Sat Toflea, Sat, Cosițeni, Sat Corcioveni - România
 - Masuratori topografice pentru relevee de poduri si drumuri

6. INVENȚIE CU BREVET ÎN STRĂINĂTATE/ȚARĂ

1. METODA SI APARAT PENTRU COLECTAREA MICROPLASTICELOR DIN RAURI SI LACURI. BREVET NR. 134991/2023