



## Curriculum Vitae

### Prof. Aleksandar Valjarević, PhD

Full Professor, Faculty of Geography

University of Belgrade, Serbia

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## Personal Information

- **Date of Birth:** 13 February 1978
- **Place of Birth:** Prokuplje, Serbia
- **Citizenship:** Serbian

## Academic Positions

- **Full Professor**, Faculty of Geography, University of Belgrade, Serbia
- **Former Associate/Assistant Professor**, Faculty of Natural Sciences and Mathematics, University of Priština
- **Visiting Professor:**
  - University of Wyoming, USA
  - Tonne Duc Thang University, Ho Chi Minh City, Vietnam

## Education

- **Ph.D. in Geosciences**, University of Niš
- **M.Sc. in Mathematics**, University of Belgrade, Faculty of Mathematics

## **Research Fields**

- Geographic Information Systems (GIS)
- Remote Sensing
- Environmental Modeling
- Urban and Physical Geography
- Sustainable Development
- Climate and Hazard Analysis

## **Selected Research Projects**

- **EU Projects:**
  - COST (COSH Project)
  - FP7
  - Jean Monnet
  - IPA
- **National Projects:**
  - Dynamics of Celestial Bodies, Systems and Populations (2001–2005)
  - Advanced ICT Applications in Medicine, Telecom, and Heritage Protection (2008–2020)
  - Member, University of Graz Consortium (2016–2026)
  - DEMASTED, Ton Duc Thang University

## **Teaching Experience**

Courses taught at undergraduate and graduate levels:

- Cartography
- Digital Cartography
- Geographic Information Systems (GIS)
- Applied Geo-Ecology
- GIS in the Environment
- Protection of the Environment
- Physical Geography
- Hydrology
- Remote Sensing

## **Publications**

- Over **250 scientific papers**
- More than **90 articles indexed in SCI/SCIE (Web of Science)**
- Author or co-author of **3 scientific books** and **2 book chapters**

### **Selected High-Impact Journals:**

- *Renewable and Sustainable Energy Reviews*
- *Applied Geography*
- *Chemosphere*
- *Environmental Geochemistry and Health*
- *Meteorological Applications*
- *Open Geosciences*
- *Geospatial Health*
- *Geoheritage*

### **Technical Skills**

- **Software:** ArcGIS, QGIS, ENVI, ERDAS Imagine
- **Programming & Analysis:** Python, R, Google Earth Engine
- **Techniques:** Satellite Image Classification, DEM Analysis, Spatial Modeling, Kriging, NDVI/NDBI/NBR, MCDM

### **Languages**

- Serbian (native)
- English (fluent)

### **Professional Memberships**

- European Cooperation in Science and Technology (COST)
- Various editorial boards and reviewer roles for international journals

### **Recent Focus**

- Environmental footprint modeling in agroecosystems
- Climate risk mapping and hydrological modeling
- Land use change and rural depopulation dynamics
- Forest potential and tourism development integration

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### **List of courses given for the students:**

- Cartography
- Digital Cartography,
- Geographical Information Systems,
- Applied Geo-ecology
- Geographical Information Systems in the Environment
- Protection of Environment
- Physical geography
- Hydrology
- Remote Sensing

### **List of research projects**

-Serbian Ministry of Education and Science: Number of project 146004 Name: Dynamics of Celestial Bodies, Systems and Populations (2001-2005) **member**

-Development of new information and communication technologies based on advanced mathematical methods, with applications in medicine, telecommunications, power systems, protection of national heritage and education (2008-2020) **member**  
COST member in COSH project, Europe Cooperation in Science and Technology **member**

- Consortium of Austria-members University of Graz (2016-2026) **member**

- Part time researcher, Department for Management of Science and Technology Development

- DEMASTED; Ton Duc Thang University; 19 Nguyen Huu Tho Street, Tan

Phong Ward, District 7, Ho Chi Minh **member**

### Papers indexed in SCI (Thomson Reuters list)

1. Filipović, I., **Valjarević, A.**, Djordjević, M., Pavlović, M., Radivojević, A., Bratić, M., Dimitrijević, Lj. (2013). Cartographic method and validity of computer aided cartographic generalization of river flows. *TTEM Journal*, 8(1):404-411, 2013. doi: <http://www.ttem.ba/pdf/ttem>. (IF 0.333).
2. **Valjarević, A.**, Živković, D., Valjarević, D., Stevanović, V., Golijanin, J. (2014). GIS analysis of land cover changes on the territory of the Prokuplje municipality. *The Scientific World Journal*, 12:1-8. doi: <http://dx.doi.org/10.1155/2014/805072>. (IF 1.219).
3. **Valjarević, A.**, Srećković-Batočanin, D., Živković, D., Perić, M. (2015). GIS analysis of dissipation time of landscape in the Devil's city (Serbia). *Acta Montanistica Slovaca*,

20(2):148-155. link: <http://actamont.tuke.sk/pdf/2015/n2/9valjarevic.pdf>. (IF 0.769).

4. Dimitrijević, M., Simić, Z., Kovačević, A., **Valjarević, A.** (2015). Stark Widths of Spectral Lines of Neutral Neon. *Journal of Astrophysics and Astronomy*, 36(0). DOI: 10.1007/s12036-015-9343-z (IF 0.394).
5. Dimitrijević, M., Simić, Z., Kovačević, A., **Valjarević, A.**, Brechot, S. (2015): Stark broadening of Xe VIII spectral lines, *Monthly Notices of the Royal Astronomical Society*, 454(2): 1736-1741. doi:10.1093/mnras/stv1970 (IF 4.961).
6. Dimitrijević, M., Simić, Z., Kovačević, A., **Valjarević, A.** (2015): Stark Broadening of in Compact stars: Xe VI lines. *Journal of Astrophysics and Astronomy*, 36(0) DOI: 10.1007/s12036-015-9352-y (IF 0.394).
7. **Valjarević, A.**, Živković, D. (2016). GIS & Sattelite detection of forest belt in Prokuplje municipality. *Technical Gazette*, 23(4): 969-972 doi:10.17559/TV-20140222204458 (IF 0.686).
8. Jaksić, T., Vasić, P., **Valjarević, A.**, Djukić, N., Vukanović, V., Rakonjac, V. (2017). The First Record of the Freshwater Jellyfish *Craspedacusta sowerbii* Lankester, 1880 (Hydrozoa) in Kosovo. *Acta Zoologica Bulgarica*, 9:283-285. doi: [http://www.acta-zoologica-bulgarica.eu/azb\\_en.php?q=Supplementum%209](http://www.acta-zoologica-bulgarica.eu/azb_en.php?q=Supplementum%209). (IF 0.369)
9. **Valjarević, A.**, Vukojičić, D., Valjarević, D. (2017). Econometric Evaluation of the Resources of the Lukovo Spa and Its tourist potential. *Tourism Management Perspectives*. 22:7-16. <http://dx.doi.org/10.1016/j.tmp.2016.12.004>. (IF 1.779)
10. Gavrilov, M., Marković, S., Nikolić, M., **Valjarević, A.**, Komac, B., Zorn, M., Punišić, M., Bačević, N. (2018). Assessing average annual air temperature trends using the Mann–Kendall test in Kosovo. *Acta Geographica Slovenica*, 56(1):7-25, DOI: 10.3986/AGS.1309. (IF 1.333).
11. **Valjarević, A.**, Djekić, T., Stevanović, V., Ivanović, R., Jandziković, B. (2018). GIS numerical and satellite detection analysis of forest changes in the Toplica District for the period of (1953-2013) *Applied Geography*, 92:131-139. doi: <https://doi.org/10.1016/j.apgeog.2018.01.016>. (IF 3.117).
12. Simonovic, S., Micic, R., Sejmanovic, D., Arsic, B., Mitic, S., Pavlovic, A., **Valjarevic, A.**, Micic, A. (2018). Chemometrics based on the mineral content as a tool for the assessment of the pollution of top soil and remediation. *Toxic Journal*, 1(37):1- 11. doi: <https://doi.org/10.1080/15569543.2018.1434797>. (IF 0.989).
13. Stevanović, V., Gulan, Lj., Milenković, B., **Valjarević, A.**, Zeremski, T., Penjišević, I. (2018). Environmental risk assessment of radioactivity and heavy metals in soil of Toplica region, South Serbia. *Environmental Geochemistry Health*, 40(176):1-18. doi: <https://doi.org/10.1007/s10653-018-0085-0>. (IF 2.994).

14. Ristić-Stanojević, Z., Stević, S., Rasić, V.J., Valjarević, D., Dejanović, J.M., **Valjarević, A.** (2018): Influence of pharmacological education on perceptions, attitudes and use of dietary supplements by medical students. *BMC Complementary and Alternative Medicine*, 17:527. doi:10.1186/s12906-017-2031-6. (IF 2.109).
15. **Valjarević, A.**, Srećković-Batočanin, D., Valjarević, D., Matović., V. (2018). A GIS-based method for analysis of energy capacity and efficiency of thermo-mineral springs in the municipality of Kuršumlija (Serbia). *Renewable and Sustainable Energy Reviews*, 92: 948-957. doi: <https://doi.org/10.1016/j.rser.2018.05.005>. (IF 9.184).
16. Gulan, Lj., **Valjarević, A.**, Milenković, B., Stevanović, V., Milić, G., Stajić, J.M. (2018). Environmental radioactivity with respect to geology of some Serbian spas, *Journal of Radioanalytical and Nuclear Chemistry*, 316:1-8. doi:https://doi.org/10.1007/s10967-018-5914-1. (IF 1.181).
17. Vukočić, D., Milosavljević, S., **Valjarević, A.**, Nikolić, M., Srećković-Batočanin, D. (2018). The evaluation of geosites in the territory of National Park, Kopaonik (Serbia). *Open Geosciences Journal*, 10(1):618-633. doi: <https://doi.org/10.1515/geo-2018-0049>. (IF 0.696).
18. **Valjarević A.**, Valjarević, D., Stanojević-Ristić Z., Djekić, T., Živić, N. (2018). A GIS based approach to health facilities and urban traffic system in Belgrade, Serbia, *Geospatial Health (Health Applications in Geospatial Science)*, 13(2):308-31 <https://doi.org/10.4081/gh.2018.729> (IF 1.225).
19. **Valjarević, A.**, Živković, D., Gadzić, N., Tomanović, D., Grbić, M. (2019). Multi- criteria GIS analysis of the topography of the Moon and better solutions for potential landing. *Open Astronomy (Baltic Astronomy)*, 28(1): 85-94. doi: <https://doi.org/10.1515/astro-2019-0008>. (IF 0.417).
20. **Valjarević, A.**, Živković, D., Božović, R., Tomanović, D., Krsmanović, S., Cvetković, V. (2021): Landscape Changes through History Following the Example of the Former Narrow-Gauge Railroad Belgrade (Čukarica–Obrenovac) Serbia. *Journal of Urban History*, 47(4):794-811. doi:10.1177/0096144219877882 (IF 0.339).
21. Gulan, Lj., Penjišević, I., Stajić, J., Milenković, B., Zeremski, T., Stevanović, V., **Valjarević, A.** (2019). Spa environments in central Serbia: Geothermal potential, radioactivity, heavy metals and PAHs. *Chemosphere*, 242:125171, <https://doi.org/10.1016/j.chemosphere.2019.125171>. (IF 5.108).
22. Ivanović, R., **Valjarević, A.**, Srećković-Batočanin, D., Martić-Bursać, N., Vukočić, D., Ivanović., M. (2020). Hydrogeothermal potentials of Rogozna mountai and possibility of their valorization. *Open Geosciences*, 11(1):1071-1083. DOI: <https://doi.org/10.1515/geo-2019-0083>. IF (0.788).

23. **Valjarević, A.**, Filipović, D., Milanović, M., Valjarević, D. (2020). New updated world maps of Sea-surface Salinity. *Pure and Applied Geophysics*, 177: 2977–2992. <https://doi.org/10.1007/s00024-019-02404-z>. **IF (1.466)**.
24. **Valjarević, A.**, Petrović, J., Marković-Savić, O., Filipović, D., Ristić, D., Radovonović, M., Azdejković, M. (2020). Roma Inner Migration Tradition Between Social Inclusion and the Protection of Natural Resources. *SAGE Open Journal*, 10(2): <https://doi.org/10.1177/2158244020919486>. **IF (0.785)**.
25. **Valjarević, A.**, Filipović, D., Valjarević, D., Milanović, M., Milošević, S., Živić, N., Lukić, T. (2020). GIS and remote sensing techniques for the estimation of dew volume in the Republic of Serbia. *Meteorological Applications*, 27(3): 1-14. <https://doi.org/10.1002/met.1930> **IF (1.685)**.
26. **Valjarević, A.**, Filipović, D., Živković, D., Ristić, N., Božović, J., Božović, R. (2020). Spatial Analysis of the Possible First Serbian Conurbation. *Applied Spatial Analysis and Policy*, 13(2):1-20. <https://doi.org/10.1007/s12061-020-09348-1>. **IF (1.778)**.
27. **Valjarević, A.**, Valjarević, D., Filipović, D., Dragojlović, J., Milosavljević, S., Milanović, M. (2021). One Small Municipality and Future of Renewable Energy Strategy. *Polish Journal of Environmental Studies*, 30(1):1-9. DOI: <https://doi.org/10.15244/pjoes/122451>. **IF (1.383)**.
28. Papić, D., Bačević, N., **Valjarević, A.**, Milentijević, N., Gavrilov, M., Živković, M., S. Marković, S. (2020). Assessment of air temperature trend in South and Southeast Bosnia and Herzegovina from 1961 to 2017. *Időjárás - Quarterly Journal of the Hungarian Meteorological Service (OMSZ)*, 124(3): 381–399. DOI:10.28974/idojaras.2020.3.5 **IF (0.277)**.
29. **Valjarević, A.**, Milanović, M., Golijanin, J., Milinčić, M., Lukić, T. (2020). The future of edible crops in Europe and their maximum point of resistance in temperature increase. *Időjárás - Quarterly Journal of the Hungarian Meteorological Service (OMSZ)*, 124(4): 541-560. DOI:10.28974/idojaras.2020.4.7 **IF (0.277)**.
30. **Valjarević, A.**, Milić, M., Valjarević, D., Stanojević-Ristić, Z., Petrović, Lj., Milanović, M., Filipović, D., Ristanović, B., Basarin B., Tin, L. (2020). Modelling and mapping of the COVID-19 trajectory and pandemic paths at global scale: A geographer's perspective. *Open Geosciences*, 12(1): 1603-1616. <https://doi.org/10.1515/geo-2020-0156> **IF (0.985)**.
31. Djukić, N., Vasiljević, B., Milosevic, Dj., **Valjarević, A.**, Jakšić, T., Vasić, P., Štrbac, S. (2020). A water quality assessment based on benthic diatoms of the Timok river basin (eastern Serbia) under multiple anthropogenic pressures. *Comptes rendus de l'Académie bulgare des Sciences*, 73(12): 1696-1702. **IF (0.343)**.
32. Morar, C., Lukić, T., Basarin, B., **Valjarević, A.**, Vujičić, M., Niemets, L., Telebienieva, I., Boros, L., Nagy, G. (2021). Shaping Sustainable Urban Environments

by Addressing the Hydro-Meteorological Factors in Landslide Occurrence: Ciuperca Hill (Oradea, Romania). *International Journal of Environmental Research and Public Health*, 18(9), 5022; <https://doi.org/10.3390/ijerph18095022>. **IF (2.849)**.

33. **Valjarević, A.**, Radovanović, D., Šoškić, S., Bačević, N., Milentijević, N., Golijanin, J., Ivanović, M. (2021). GIS and geographical analysis of the main harbors in the world. *Open Geosciences*, 13(1), 639-650. <https://doi.org/10.1515/geo-2020-0223>. **IF (0.985)**.
34. Bačević, N., Milentijević, N., **Valjarević, A.**, Gicić, A., Kićović, D., Radaković, M., Nikolić, M., Pantelić, M. (2021). Spatiotemporal variability of air temperatures in Central Serbia from 1949 to 2018. *Időjárás - Quarterly Journal of the Hungarian Meteorological Service (OMSZ)*, 125(2): 229-253. <https://doi.org/10.28974/idojaras.2021.2.4>. **IF (0.277)**.
35. Micić, T., Lukić, T., Vasiljević, Dj., Thomas, H., Basarin, B., Marković, S., Milanović, M., **Valjarević, A.**, Vujičić, M., Stankov, U., Blagojević, D., Nekić, N., Blesić, I. (2021). Quantitative Geodiversity Assessment of the Fruška Gora Mt. (North Serbia) by Using the Geodiversity Index. *Geoheritage*, 13, 61. <https://doi.org/10.1007/s12371-021-00572-w>. **IF (2.68)**.
36. Vukoičić, D., Srećković-Batočanin, D., **Valjarević, A.**, Ristić, D., Nikolić, M., Valjarević, D. (2021). *Geologica Croatica*, 74(2): 163-176. <https://doi.org/10.4154/gc.2021.11>. **IF (0.717)**.
37. **Valjarević, A.**, Lukić, T., Valjarević, D., Milanović, M., Basarin, B., William, G. (2021). Advanced geographic information system and remote sensing methods forestimation of dew volume and its utilization in the United Arab Emirates. *Arabian Journal of Geosciences*, 14, 1430. <https://doi.org/10.1007/s12517-021-07771-3>. **IF (1.827)**.
38. Valjarević, A., Morar, C., Živković, J., Niemets, L., Kićović, D., Golijanin, J., Gocić, M., Bursać, N.M., Stričević, L., Žiberna, I., Bačević, N., Milevski, I., Durlević, U., Lukić, T. (2020). Long Term Monitoring and Connection between Topography and Cloud Cover Distribution in Serbia. *Atmosphere*, 12, 964. **IF (2.686)**. <https://doi.org/10.3390/atmos12080964>.
39. Morar, C., Tiba, A., Basarin, B., Vujičić, M., **Valjarević, A.**, Niemets, Lj., Gessert, A., Jovanovic, T., Drugas, M., Vasilie, G., Stupariu, M., Stoica, A., Lukić, T. (2021). Predictors of Changes in Travel Behavior during the COVID-19 Pandemic: The Role of Tourists' Personalities. *International Journal of Environmental Research and Public Health*, 18(21):11169. <https://doi.org/10.3390/ijerph182111169>. **IF (3.390)**.
40. Durlević, U., Lukić, T., **Valjarević, A.**, Samardžić, I., Krstić, F., Batočanin, N., Mijatov, M., Ćurić, V. (2020). Multi-hazard susceptibility assessment: A case study – Municipality of Štrpce (Southern Serbia), 13(1), 1414-1431. <https://doi.org/10.1515/geo-2020-0314>. **IF (1.229)**.

41. Ponjiger, M.T., Lukić, T., Basarin, B., Jokić, M., Wilby, R.L., Pavić, D., Mesaroš, M., **Valjarević, A.**, Milanaović, M., Morar, C. (2021). Spatial-temporal variability of rainfall erosivity and erosivity density in the central and southern Pannonian Basin. *Sustainability*, 13, 13355. <https://doi.org/10.3390/su132313355>. **IF (3.251)**.
42. Morar, C., Tiba, A., Jovanović, T., Valjarević, A., Ripp, M., Vujičić, M.D., Stankov, U., Basarin, B., Ratković, R., Popović, M., Nagy, G., Boros, Lukić, T. (2022). Supporting Tourism by Assessing the Predictors of COVID-19 Vaccination for Travel Reasons. *International Journal of Environmental Research and Public Health*, 19, 918. <https://doi.org/10.3390/ijerph19020918>.
43. Valjarević A. (2022) GIS-Based Methods for the Analysis of the Main Ports in Europe. In: Huynh D.V.K., Tang A.M., Doan D.H., Watson P. (eds) Proceedings of the 2nd Vietnam Symposium on Advances in Offshore Engineering. VSOE2021 2021. Lecture Notes in Civil Engineering, vol 208. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7735-9\\_59](https://doi.org/10.1007/978-981-16-7735-9_59).
44. Morar, C., Lukić, T., **Valjarević, A.**, Niemets, L., Kostrikov, S., Sehida, Telebienieva, I., Kliuchko, L., Kobylin, P., Kravchenko, K., 2022. Spatiotemporal Analysis of Urban Green Areas Using Change Detection: A Case Study of Kharkiv, Ukraine. *Frontiers in Environmental Science*. 10, DOI.10.3389/fenvs.2022.823129. **IF (5.411)**
45. Milentijević, N., **Valjarević, A.**, Bačević, R.N., Ristić, D., Kalkan, K., Cimbalević, M., Dragojlović, J., Savić, S., Pantelić, M. (2022). Assessment of observed and projected climate changes in Bačka (Serbia) using trend analysis and climate modeling. *IDŐJÁRÁS Quarterly Journal of the Hungarian Meteorological Service* 126(1), 47–68. DOI:10.28974/idojaras.2022.1.3. **IF (0.860)**.
46. **Valjarević, A.**, Milanović, M., Gultepe, I., Filipović, D., Lukić, T. (2022). Updated Trewartha climate classification with four climate change scenarios. *The Geographical Journal*, 00, 1–12. <https://doi.org/10.1111/geoj.12458> **IF (3.384)**.
47. Kaplan, G., Milevski, I., **Valjarević, A.** (2022). National land cover mapping using various remote sensing datasets in ge. *Carpathian Journal of Earth and Environmental Sciences* 17(2), 297-306. DOI:10.26471/cjees/2022/017/223 **IF (1.316)**.
48. Golijanin, J., Nikolić, G., **Valjarević, A.**, Ivanović, R., Tunguz, V., Bojić, S., Grmuša, M., Lukić Tanović, M., Perić, M., Hrelja, E., Stankov, S., 2022. Estimation of potential soil erosion reduction using GIS-based RUSLE under different land cover management models: A case study of Pale Municipality, B&H. *Frontiers in Environmental Science* 10, 945789. doi: 10.3389/fenvs.2022.945789 **IF (5.411)**.
49. Petrović, M.J., Valjarević, D., Ilić, D., **Valjarević, A.**, Mladenović, J., 2022. An Improved Modification of Accelerated Double Direction and Double Step-Size

Optimization Schemes. *Mathematics*,10(2):259. <https://doi.org/10.3390/math10020259>. **IF (2.592)**.

50. Morar, C., Lukić, T., **Valjarević, A.**, Niemets, L., Kostrikov, S., Sehida, Telebienieva, I., Kliuchko, L., Kobylin, P., Kravchenko, K., 2022. Spatiotemporal Analysis of Urban Green Areas Using Change Detection: A Case Study of Kharkiv, Ukraine. *Frontiers in Environmental Science* 10, DOI.10.3389/fenvs.2022.823129. **IF (5.411)**
51. Stanojević-Ristić, Z., Mrkić, I., Ćorac, A., Dejanović, M., Mitić, R., Vitković, L., Rašić, J., Valjarević, D, **Valjarević, A.**, 2022. Healthcare Professionals' Knowledge and Behaviors Regarding Drug–Dietary Supplement and Drug–Herbal Product Interactions. *International Journal of Environmental Research and Public Health*. 19(7):4290. <https://doi.org/10.3390/ijerph19074290>. **IF (4.614)**.
52. Gulan, Lj., Stajic, M.J., Zeremski, T., Durlevic, U., **Valjarević, A.**, 2022. Radionuclides and Metals in the Parks of the City of Belgrade, Serbia: Spatial Distribution and Health Risk Assessment. *Forests*, 13(10):1648. <https://doi.org/10.3390/f13101648>. **IF (3.282)**.
53. Durlević, U., **Valjarević, A.**, Novković, I., Ćurčić, N.B., Smiljić, M., Morar, C., Stoica, A., Barišić, D., Lukić, T., 2022. GIS-Based Spatial Modeling of Snow Avalanches Using Analytic Hierarchy Process. A Case Study of the Šar Mountains, Serbia. *Atmosphere*. 13(8):1229. **IF (3.110)**.
54. Bačević, N., Milentijević, N., **Valjarević, A.**, Nikolić, M., Stevanović, V., Kićović, D., Radaković, M., Papić, D., Marković, S., 2022. The analysis of annual and seasonal surface air temperature trends of southern and southeastern Bosnia and Herzegovina from 1961 to 2017. *DŐJÁRÁS Quarterly Journal of the Hungarian Meteorological Service*, 126, 355–374. 10.0.113.46/idojaras.2022.3.5. **IF (0.896)**.
55. Ilies, G., Ilies, M., Hotea, M., Bumbak, S-V., Hodor, N., Ilies, D-C., Caciora, T., Safarov, B., Morar, C., Valjarević, A., Berdenov, Z., Lukić, T., Mihajlović, M., Liudmyla, N., Vasić, P. (2022) Integrating forest windthrow assessment data in the process of windscape reconstruction: Case of the extratropical storms downscaled for the Gutai Mountains (Romania). *Frontiers in Environmental Science*.10:926430. doi: 10.3389/fenvs.2022.926430 **IF (5.411)**.
56. Yousefi, S., Jaafari, A., **Valjarević, A.**, Keesstra, S., 2022. Vulnerability assessment of road networks to landslide hazards in a dry-mountainous region. *Environmental Earth Sciences*, 81, 521. <https://doi.org/10.1007/s12665-022-10650-z>. **IF (3.119)**.
57. **Valjarević, A.**, Popovici C., Štilić, A., Radojković, M. (2022). Cloudiness and water from cloud seeding in connection with plants distribution in the Republic of Moldova. *Applied Water Science*, 12, 262 (2022). <https://doi.org/10.1007/s13201-022-01784-3> **IF(5.411)**.

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63. **Valjarević, A.**, 2023. Advanced numerical and spatial analysis of forest and environmental management. *Frontiers in Environmental Sciences*, 11, 105567. doi:  
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69. Valjarević D, Stojanović V, **Valjarević A.** (2024). Application of the Concept of Statistical Causality in Integrable Increasing Processes and Measures. *Axioms*. 13(2):124. <https://doi.org/10.3390/axioms13020124>
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### **Papers submitted for potential publications**

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85. **Valjarević et al., (2025)**. Ecological Impact of Oil Fields on Venezuela's River Systems: Water Stress and Environmental Challenges. *Environmental Monitoring and Assessment* **IF (2.9)**.
86. **Valjarević, A. (2025)**. Demographic Trends and Water Stress: GIS-Based Analysis of Impacts on African River Systems. *Journal of African Earth Sciences* **IF (2.2)**.
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88. **Valjarević, A et al., (2025)**. Economic and Geographical Analysis of Water Stress in Nigeria's River Systems Using GIS: Impacts of Population Growth and Climate Change. *GIScience & Remote Sensing* **IF (6.0)**.



## International papers from the conferences

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2. **Valjarević, A.**, Živković, D., Pavlović, M. (2013). The probability of flooding way occurrence and the vulnerability of the Kosovo territory settlements. *Journal of the Geographical Institute "Jovan Cvijic" SASA* 63(2): 123-132. doi:10.2298/IJGI1303123V. (Scopus).
3. Mijalović, Ž., **Valjarević, A.** (2013). Multilayer digital map of the Toplica region. *Mathematical Informatics Conference MIT*. (5), 443-449, link: <http://www.mit.rs/2013/zbornik-2013.pdf>. (Web of Science).
4. **Valjarević, A.**, Mijajlović, Ž. (2013). Multilayer digital map with many different buidings data structures. *International Conference Digitization of Heritage in Science, Alexander von Humboldt*. Sophia, 20-23 June, Bulgaria.
5. **Valjarević, A.**, Šegan, M., Milovanović, M., Ognjanović, Z. (2013). CulturalMonuments in Serbia: Web and Mapping of Toplica District. *Interdisciplinary conference with topics from Archaeology, Preservation of Monuments, Surveying and Geoinformatics, Dormund, Germany*. link: <http://www.denkmaeler3.de/English/pdf/D3D-Program-English.pdf>.
6. **Valjarević, A.**, Živković, D. (2015): The ability of improving GIS map modelling. *2nth International Scientific Conference GeoBalcanica*, Skopje, Republic of Macedonia, 10-12 June, 34-44. <http://geobalcanica.org/wp-content/uploads/2016/04/GBP.2015.18.pdf>.
7. **Valjarević, A.**, Jandziković, B. (2015) Digital and Cartographic Modelling of Vrsac Mountains Topographic Expositions. *2nth International Scientific Conference GeoBalcanica*, Skopje, Republic of Macedonia, 10-12. June, 11-15. link: <http://geobalcanica.org/wp-content/uploads/2016/04/GBP.2015.02.pdf>.
8. Gavrilov, M.B., Marković, S.B., Mlađan, D, Subošić, D., Zarić, M., Pešić, A., Janc, N., Nikolić, M., **Valjarević, A.**, Bačević, N., Marković, I.S. (2015). Extreme Floods in Serbia Occurring Simultaneously with the high water levels and heavy rains Case study”, Conference: *The International Scientific Conference „Archibald Reiss Days*, 3-4 March, 25-36, Belgrade, Serbia. doi:10.13140/RG.2.1.4483.9522.

9. **Valjarević, A.** (2016). Virtual analysis of capacity of public traffic network in weekend migration activity in Belgrade. INTERNATIONAL SCIENTIFIC CONFERENCE CONTEMPORARY MIGRATION IN CHANGING WORLD: NEW PERSPECTIVES AND CHALLENGES Belgrade, September 18-21. Link: <http://www.gef.bg.ac.rs/en/international>.
10. Milentijević, N., **Valjarević, A.**, Vukoičić, D., Cimaljević, M. (2016). GIS Technology and Spatial Analysis of Geo-cultural heritage in the Municipality of Prokuplje (Serbia). *Monitoring and Management of Visitors in Recreational and Protected Areas Cooperation's across borders and Scales*. Novi Sad, September Serbia; doi:10.13140/RG.2.2.27947.85284.
11. **Valjarević, A.**, Valjarević, D. (2016). Geothermal capacity and distribution of thermal-mineral springs in the municipality of Kuršumljija (Serbia). Collaborative Conference on Resource and Environmental Science, Orlando, December 5-9, the United States of America. Invited Speakers, <http://2conf.org/resource-and-environmental-science/invited-speaker>.
12. Stevanovic, V., Gulan, Lj., Valjarević, A. (2017). Measurements of ambient dose equivalent rates in municipality of Kursumlija, Serbia. *Fifth International Conference on Radiation and Applications in Various Fields of Research*. Slovencka Plaža, Budva, Montenegro. [www.rad2017.rad-conference.org/invited\\_lectures.php](http://www.rad2017.rad-conference.org/invited_lectures.php).
13. Stevanovic, V., Gulan, Lj., **Valjarević, A.** (2017). Analysis of bioclimatic characteristics of Niška Banja. *Fifth International Conference on Radiation and Applications in Various Fields of Research*. Slovencka Plaža. Budva, Montenegro. Link: [www.rad2017.rad-conference.org/invited\\_lectures.php](http://www.rad2017.rad-conference.org/invited_lectures.php).
14. **Valjarević, A.**, Živković, D. (2018). Multicriteria GIS analysis of the topography of the Moon and better solutions for potential landing. *XI Serbian-Bulgarian Astronomical Conference*, 14-18 May. Belogradchik, Bulgaria.
15. **Valjarević, A.**, Živković, D. (2018). GIS based method of modelling the maximal resistance temperatures of corn in the territory of Europe. *3rd INTERNATIONAL THEMATIC MONOGRAPH Modern management tools and economy of tourism sector in present era*. Graz, Austria 8-9 November.
16. **Valjarević, A.**, Živković, D. (2019). Possibility of dew use and beret utilization in Serbia. 8th International Conference on Fog, Fog, Collection and Dew Taipei, July, 14-19, 42-45. Taiwan. IFDA 2019-180.

17. **Valjarević, A.** (2020). Digitization of cultural object in the Toplica District (Serbia), Transmedia storytelling and digital mapping history, memory, identity. Book of abstracts. Faculty of Dramatic Arts, Belgrade November 2-5<sup>th</sup>. <https://fd.u.bg.ac.rs/uploads/files/Institut/Rasporod%20final%20.pdf>.
18. **Valjarević, A.** (2021): Geospatial techniques for mapping the Path of COVID-19. space.net Network of Spatial Research and Planning in Central, Eastern and South Eastern Europe, Belgrade, Serbia.
19. **Valjarević, A.** (2021): Оцифровка облаков на территории Сербии в период с(1989-2019 гг.), «ТЕОРЕТИЧЕСКИЕ И ПРИКЛАДНЫЕ ПРОБЛЕМЫ ИССЛЕДОВАНИЯ ПРОСТРАНСТВЕННЫХ ПРОЦЕССОВ: СПЕКТР ВЗГЛЯДОВ РОССИЙСКИХ И СЕРБСКИХ ГЕОГРАФОВ, Копаоник, Сербия.
20. **Valjarević, A.** (2021). Advanced Remote sensing techniques for estimation of dew volume in the Province of Kosovo. Annual Meeting of Mediterranean Geoscience Union, Istanbul, Turkey, 25-28 November.
21. **Valjarević, A., Popovici, C.** (2021). Transformation of Traditional Agriculture on Digital in the Republic of Moldova Using Advanced Techniques. Enlargement and Integration Workshop “Digital Transformation, Data and AI in the Western Balkans. The European Commission’s science and knowledge service Joint Research Centre. Skopje 9-11 December, North Macedonia.
22. **Valjarević, A.** (2022). City form as a factor in relation to governance and urban culture after COVID-19 pandemic. “11th World Urban Forum (WUF11) Roundtable: Urban Transformation in Socialist and Post-socialist Countries in Response to the Pandemic: Lessons Learned”. This event was hold on June 28th, 2022, at International Congress Centre (MCK), Katowice, Poland.
23. **Valjarević, A., Batoćanin, N., Srećković-Batoćanin, D., Lukić, T.** (2022). Landscape and Landforms in the Toplica region (Southern Serbia). 3<sup>rd</sup> International Conference on Geoheritage nad Geotourism. Zlatibor, Serbia 7-8 May.
24. **Valjarević, A., Ivanović. M.** (2022). The new land-use predisposition and analysis of geosites along with the establishment of new roads for better tourism recognition; case study Toplica region (Southern Serbia). URBAN TRANSITIONS 2022, 8-10 November, Sitges, Barcelona, Spain. Elsevier <https://www.elsevier.com/events/conferences/urban-transitions>.

### **Chapters in International Monographs**

1. **Valjarević, A.** (2022). Geospatial Techniques for Mapping the Spatial Trajectories of COVID-19. Valjarević, A. (2022). Geospatial Techniques for Mapping the Spatial Trajectories of COVID-19. In: Laituri, M., Richardson, R.B., Kim, J. (eds) The Geographies of COVID-19. Global Perspectives on Health Geography. Springer, Cham. [https://doi.org/10.1007/978-3-031-11775-6\\_17](https://doi.org/10.1007/978-3-031-11775-6_17).

2. **Valjarević A.** (2022) GIS-Based Methods for the Analysis of the Main Ports in Europe. In: Huynh D.V.K., Tang A.M., Doan D.H., Watson P. (eds) Proceedings of the 2nd Vietnam Symposium on Advances in Offshore Engineering. VSOE2021 2021. Lecture Notes in Civil Engineering, vol 208. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7735-9\\_59](https://doi.org/10.1007/978-981-16-7735-9_59).

### ***Education and training***

Gymnazy, Department of Natural Sciences and Mathematics, Prokuplje, Serbia (June 1997)

Professor of Geography degree  
Faculty of Natural Sciences and Mathematics  
University of Kosovska Mitrovica, Serbia (August 2002)

Master of Astronomy,  
Faculty of Mathematics, University of Belgrade, Serbia (March 2007)

PhD of Geoscience  
Faculty of Natural Sciences and Mathematics, University of Niš, Serbia (11.10. 2012)

### ***Research Interests***

Geographical Information Systems  
Geo-informatics  
Classical cartography  
Map design and GIS data  
Remote Sensing  
Geography in general

### ***Achieved professional skills***

The final course of MS Office  
The final course GeoMedia Professional  
The final course of Global Mapper  
R-mapper IDRISI  
Knowledge of ArcGIS, QGIS, R programming, HTML, JS, CSS, Google Maps API, Remote, Sensing software's, YARN, Hadoop, Cassandra

Coding in Python, GeoPython, Java, HTML, Javascript.

Work on Unix, Linux and Microsoft platforms.

### ***Other skills***

Communication, creativity, consistency, respect for the hierarchy of business units

### ***Driver license***

B category

### ***The awards***

The diploma of the Serbian Geographical Society

The diploma of the Municipality of Prokuplje

### ***Member in Societies***

Serbian Geographical Society

American Geophysics society

Euro planet society

### ***Editorial member in Journals***

Journal of Geographical Research

The University thought Publication in Natural Sciences

### ***Reviewer in the Journals and Conferences from ISI list***

Journal of Environmental Planning and Management

Tourism Management Perspectives

South African Journal of Education

Időjárás - Quarterly Journal of the Hungarian Meteorological Service (OMSZ)

The second Vietnam Symposium of Advances in offshore engineering

BioMed Research International

Renewable & Sustainable Energy Reviews

Information MDPI

Sustainability MDPI 3 times

Information MDPI

Environmental Nanotechnology, Monitoring & Management

Catena

Scientific Reports Nature

Atmospheric Research

Atmospheric Environment

Applied Geography

Science,

Meteorology and Atmospheric Physics, etc.

## **List of Research and Development Projects Involving Prof. Aleksandar Valjarević**

### ***1. Interreg Projects***

- **Interreg VI-A IPA Programme Croatia – Bosnia and Herzegovina – Montenegro 2021–2027**  
*Project: AllerShield (HR-BA-ME00225)*  
*Title: Development of the National Cadastre of Speleological Objects*  
*Partners: Global Environment Facility (GEF), UNDP Centre for Sustainable Development, and Environmental Protection Agency (Serbia).*  
*Role: Expert contributor in GIS and environmental mapping.*

### ***2. European Union Projects***

- **COST Action (COSH Project) – European Cooperation in Science and Technology**  
*Role: Member and contributor in GIS and environmental hazard modeling.*
- **FP7 Framework Programme (EU 7th Framework Project) – participation in environmental and GIS-related research.**
- **Jean Monnet Project** – focused on sustainable regional development and European integration in spatial planning.
- **IPA Cross-Border Cooperation Project** – involvement in cross-border GIS and environmental monitoring between Balkan countries.

### ***3. National and Bilateral Projects***

- **Serbian Ministry of Education and Science Project No. 146004**  
*Title: Dynamics of Celestial Bodies, Systems and Populations (2001–2005)*  
*Role: Research team member.*
- **Serbian National Research Project (2008–2020)**  
*Title: Development of New Information and Communication Technologies Based on Advanced Mathematical Methods, with Applications in Medicine, Telecommunications, Power Systems, Protection of National Heritage, and Education*  
*Role: Research team member.*

- **Serbia–Turkey Bilateral Project (2021–2023)**  
*Title: Determination, Evaluation, and Monitoring of Unused Pasture Lands within Forest Areas for Grazing Beef Cattle Using GIS, RS, and UAV Techniques*  
*Role: Reviewer and national expert.*
- **National Project – Vietnam (Ton Duc Thang University, Ho Chi Minh City)**  
*Title: DEMASTED: Department for Management of Science and Technology Development*  
*Institution: Ton Duc Thang University*  
*Role: Part-time researcher (international cooperation 2016–2026).*

#### ***4. Erasmus+ and Cross-Border Education Projects***

- **Erasmus+ Mobility and Teaching Exchange Projects (Romania–Serbia)**  
*Focus: Exchange of expertise in GIS education, environmental monitoring, and sustainable tourism (University of Oradea, Romania – Faculty of Geography, University of Belgrade).*

#### ***5. International and Institutional Collaborations***

- **University of Graz Consortium (Austria)** – *Member of the research consortium (2016–2026) focusing on climate hazards, GIS-based modeling, and sustainable land use.*
- **Global Environment Facility (GEF) and UNDP Joint Initiative** – *Environmental and Climate Data Mapping in South-East Europe*
- **University of Wyoming (USA)** – *Visiting Professor; collaboration on remote sensing and environmental modeling.*

## **Reviewer of the project**

Serbian-Turkish bilateral project proposal for period 2021-2023.

Determination, evaluation and monitoring of unused pasture lands within the forest areas for grazing beef cattle by using GIS, RS and UAV techniques.

### **Useful links:**

[https://www.researchgate.net/profile/Aleksandar\\_Valjarevic2](https://www.researchgate.net/profile/Aleksandar_Valjarevic2)

<http://www.gef.bg.ac.rs/en/teachers-and-associates/ph-d-aleksandar-valjarevic/>

<https://scholar.google.com/citations?user=4hx85GMAAAAJ&hl=en&oi=ao>

<https://science.tdtu.edu.vn/demasted-group>

### **Languages**

English B2/C1

All Balkan

Languages

In the recent time I was reviewer for the more than 200 hundred papers some of them are:

The name of Journals is

-Atmospheric Environment, Elsevier (IF 5,0)

-Atmospheric Research, Elsevier (IF 5,5)

-Applied Geography, Elsevier (IF 4,9)

-Nature communication

-Land use policy

-Urban geography

- Journal of Urban Management

-Demography, etc.