



Dejan Doljak, PhD

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Broad area of Specialization

Geography; Spatial Planning

Research Expertise

Renewable energy; Solar energy; Geographic Information System (GIS)

Education

2012–2020

PhD studies

University of Belgrade, Faculty of Geography, Geosciences

PhD thesis: *The geospatial evaluation for planning photovoltaic power plants in Serbia*

2010–2012

MSc studies

University of Belgrade, Faculty of Geography, Department of Spatial Planning

Master thesis: *Geospatial conditions for the location of solar systems*

2007–2010

BSc studies

University of Belgrade, Faculty of Geography, Department of Spatial Planning

Thesis: *Perspectives on using renewable energy sources — the planners approach*

Employment

Geographical Institute "Jovan Cvijić" SASA

2021– present

Research Associate

2017–2021

Research Assistant

2017

Research Trainee

Projects involvement

2023–

Deliver sAfe and Social Housing—DASH

Funded by European Union under the Programme Horizon Europe – Marie Skłodowska-Curie Actions

2022

Sustainable zoning of solar PV in Serbia

Funded by the Nature Conservancy

2019–2021

Development of geospatial database of potential solar insolation of Montenegro

Funded by Ministry of Education, Science and Technological Development of the Republic of Serbia and Ministry of Science of Montenegro

2020

Remote detection of (de)population processes in Serbia

Funded by United Nations Development Programme (UNDP) in Serbia, United Nations Population Fund (UNFPA) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)

- 2011–2019 *Geography of Serbia*
Funded by Ministry of Education, Science and Technological Development of the Republic of Serbia e
- 2017 *Serbia without fossil fuels: Alternative INDC: alternative scenario for the development of the energy sector until 2050 - transition to 100% renewable energy sources*
Funded by Jedan stepen Srbija and Climate Action Network Europe

Scholarships and awards

- 2013–2017 Scholarship as a PhD student from the Ministry of Education, Science and Technological Development of the Republic of Serbia
- 2007–2013 Student scholarship of the Ministry of Education of the Republic of Serbia
- 2011/2012 Annual Award “Dimitrije Perišić” for best MSc thesis in Year 2011/2012, awarded by the Institute for Architecture and Urban Planning of Serbia

Trainings, courses, and seminars

- May 5, 2017 Basics of Web Design (100 hours of training)
- March 29, 2016 ArcGIS I: Introduction to GIS (16 hours of training)
- April 1, 2016 ArcGIS II: Essential Workflows (24 hours of training)
- April 5, 2016 ArcGIS III: Performing Analysis (16 hours of training)
- September 15, 2011 AutoCAD 2012 2D Drafting (45 hours of training)

Skills

- Computer skills Microsoft Office (Word, Excel, PowerPoint); GIS (ArcGIS, QGIS, SAGA); Graphics and design (Photoshop, InDesign, Illustrator, Dreamweaver, Corel Draw, AutoCAD, Acrobat); Programming/coding (HTML, CSS)
- Language skills English language: reading – B1, writing – B1, conversation – B1

Membership

- Membership in professional associations Association of spatial planners (from 2017.)
Europlanet Society (from 2019.)
- Membership in international conferences' scientific and organizational committees Member of the Organizing Committee of the International Scientific Conference “Cultural Corridor VIA DIAGONALIS – Cultural Tourism without Boundaries,” held September 3–6, 2013, in Sofia (Bulgaria) and Belgrade (Serbia).
Member of the Local Organizing Committee of the scientific meeting “Integrations of satellite and ground-based observations and multi-disciplinarity in research and prediction of different types of hazards in Solar system,” held May 10–13, 2019, in Petnica (Serbia).
Member of the Local Organizing Committee “International Conference on Recent Trends in Geoscience Research and Applications 2023” (GeosciRA23), held from October 23–27, 2023, in Belgrade (Serbia) and virtual.

Other experiences

Participation in the teaching process

Teaching fellow at the University of Belgrade – Faculty of Geography, subjects: *Planning and Development of Tourist Areas, Tourism and Spatial Planning, Tourism Development Strategy* (year 2011/2012, 2012/2013, 2014/2015, 2015/2016, and 2016/2017) and *Urban Regulation of Settlements* (year 2013/2014);

Reviewer for international and national journals

Renewable and Sustainable Energy Reviews

Environmental Earth Sciences

Natural Resources Research

Journal of the Geographical Institute "Jovan Cvijić" SASA

Energija, ekonomija, ekologija

Editorial activities

Aleksandra, N., Snežana, D., & Dejan, D. (Eds.). (2023). *Book of Abstracts and Contributed Papers / International Conference on Recent Trends in Geoscience Research and Applications, GeosciRA23 2023*. Faculty of Civil Engineering, University of Belgrade; Institute of Physics Belgrade, University of Belgrade; Geographical Institute "Jovan Cvijić" SASA. https://a51ce497-f48b-4af8-a2fc-4f567f23a8c8.filesusr.com/ugd/d1f9af_ab239f0a8f3442939560663c30a5131f.pdf

Technical editor of *Journal of the Geographical Institute "Jovan Cvijić" SASA* (since 2019)

Prepress of Proceedings of the International Conference „The Balkan Peninsula of Jovan Cvijić: Historical Background and Contemporary Trends in Human Geography” (2018)

Participation in the technical preparation of the special edition of the journal *Thermal Science* (Vol. 19, Suppl. 2, Part 1) „Recent Thermal Processes in the Atmosphere” (2015)

Bibliography

Chapters in international monographs

Kovačević-Majkić, J., Miljanović, D., & Doljak, D. (2020). Spatial aspects of flood exposure in Serbia. In A. Milanović Pešić & D. Jakovljević (Eds.), *Water Resources Management: Methods, Applications and Challenges* (pp. 69–122). Nova Science Publishers.

Articles published in international scientific journals

Todorić, J., Vuksanović-Macura, Z., & Doljak, D. (2023). Exploring the Spatiality of Shopping Patterns in Belgrade, Serbia. *Mitteilungen der Österreichischen Geographischen Gesellschaft*, 165, 39–62. <https://doi.org/10.1553/moegg165s39>

Glavonjić, T., & Doljak, D. (2023). Protected areas as recreational zones for nearby cities – the case study of the city of Vršac. *Forum geografic*, 22(2), 191–200. <http://doi.org/10.5775/fg.2023.2.3588>

Miljanović, D., Vuksanović-Macura, Z., & Doljak, D. (2023). Rethinking the spatial transformation of postsocialist cities: Shrinking, sprawling or densifying. *Cities*, 140, Article 104443. <https://doi.org/10.1016/j.cities.2023.104443>

Malinović-Milićević, S., Doljak, D., Stanojević, G., & Radovanović, M. M. (2022). Impact of the COVID-19 restrictive measures on urban traffic-related air pollution in Serbia. *Frontiers in Environmental Science*, 10, Article 823973. <https://doi.org/10.3389/fenvs.2022.823973>

Drobnjaković, M., Panić, M., Stanojević, G., Doljak, D., & Kokotović Kanazir, V. Detection of the Seasonally Activated Rural Areas. *Sustainability* 14, Article1604. <https://doi.org/10.3390/su14031604>

- Panić, M., Drobnjaković, M., Stanojević, G., Kokotović Kanazir, V., & Doljak, D. (2022). Nighttime lights – Innovative approach for identification of temporal and spatial changes in population distribution. *Journal of the Geographical Institute "Jovan Cvijić" SASA* 72(1), 51–66. <https://doi.org/10.2298/IJGI2201051P>
- Stankov, S., Perić, M., Doljak, D., & Vukovic, N. (2021). The Role of Euroregions as a Factor of Spatial Integration and Regional Development—The Focus on the Selected Border Area. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 71(3), 295–310. <https://doi.org/10.2298/IJGI2103295S>
- Doljak, D., Stanojević, G., & Miljanović, D. (2021). A GIS-MCDA Based Assessment for Siting Wind Farms and Estimation of the Technical Generation Potential for Wind Power in Serbia. *International Journal of Green Energy*, 18(4), 363–380. <https://doi.org/10.1080/15435075.2020.1865363>
- Malinović-Milićević, S., Vyklyuk, Y., Stanojević, G., Radovanović, M. M., Doljak, D., & Čurčić, N. B. (2021). Prediction of tropospheric ozone concentration using artificial neural networks at traffic and background urban locations in Novi Sad, Serbia. *Environmental Monitoring and Assessment*, 193(2), Article 84, <https://doi.org/10.1007/s10661-020-08821-1>
- Bajat, B., Antonijević, O., Kilibarda, M., Sekulić, A., Luković, J., Doljak, D., & Burić, D. (2020). Space-time high-resolution data of the potential insolation and solar duration for Montenegro. *Spatium*, 44, 45–52, <https://doi.org/10.2298/SPAT2044045B>
- Marković, S. S., Perić, M. R., Mijatov, M., Dragin, A. S., & Doljak, D. Lj. (2020). Attitudes of the local population in border municipalities on development of sport-event tourism. *Journal of Hospitality and Tourism Research*, 45(7), 1282–1302. <https://doi.org/10.1177/1096348020927444>
- Vyklyuk, Y., Radovanović, M., Milovanović, B., Milenković, M., Petrović, M., Doljak, D., Malinović Milićević, S., Vuković, N., Vujko, A., Matsiuk, N., & Mukherjee, S. (2019). Space weather and hurricanes Irma, Jose and Katia. *Astrophysics and Space Science*, 364(9). <https://doi.org/10.1007/s10509-019-3646-5>
- Jojić Glavonjić, T., Doljak, D., Brankov, J., & Filipović, M. (2019). Residents' Perception Toward Protected Areas – Landscape of Exceptional Features "Vlasina" (Serbia). *Carpathian Journal of Earth and Environmental Sciences*, 14(1), 5–17. <http://doi.org/10.26471/cjees/2019/014/053>
- Stanojević, G. B., Miljanović, D. N., Doljak, D. Lj., Čurčić, N. B., Radovanović, M. M., Malinović-Milićević, S. B., & Hauriak, O. (2019). Spatio-temporal variability of annual PM 2.5 concentrations and population exposure assessment in Serbia for the period 2011-2016. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 69(3), 197–211. <https://doi.org/10.2298/IJGI1903197S>
- Doljak, D., Stanojevic, G., Radovanovic, M., & Malinovic-Milicevic, S. (2018). Estimation of photovoltaic power generation potential in Serbia based on irradiance, air temperature, and wind speed data. *Thermal Science*, 22(6 Part A), 2297–2307. <https://doi.org/10.2298/TSCI171230164D>
- Doljak, D., & Stanojević, G. (2017). Evaluation of natural conditions for site selection of ground-mounted photovoltaic power plants in Serbia. *Energy*, 127, 291–300. <http://doi.org/10.1016/j.energy.2017.03.140>
- Doljak, D., Popović, D., & Kuzmanović, D. (2017). Photovoltaic potential of the City of Požarevac. *Renewable and Sustainable Energy Reviews*, 73, 460–467. <http://dx.doi.org/10.1016/j.rser.2017.01.154>

Batas Bjelić, I. & Doljak, D. (2023, April 2–8). Selection 100 Best Locations for the Bigger Photovoltaic Power Plants in Serbia. In M. Radojčin, F. Kulić, & I. Pavkov (Ed.), *Book of Abstracts : VIII International Conference Sustainable Postharvest and Food Technologies - INOPTEP 2023 and XXXV Scientific - Professional Conference Processing And Energy in Agriculture - PTEP 2023* (pp. 7–8). National Society of Processing and Energy in Agriculture; Faculty of Agriculture. <https://dais.sanu.ac.rs/123456789/15305>

Stanojević, G., Doljak, D., & Ćurčić, N. (2018, September 17–21). *The influence of Mediterranean cyclones on precipitation distribution in Serbia* [Conference presentation abstract]. MedCLIVAR 2018 conference "Bridging the Mediterranean climate", Belgrade, Serbia. <https://www.medclivarconf.eu/2018/index.php/book-of-abstracts>

Papers published in
publications of
scientific meetings of
international
importance

Panić, M., Drobnjaković, M., Stanojević, G., Doljak, D., & Kokotović Kanazir, V. (2022). How to catch depopulation in Serbia? Alternative approach for detection and monitoring. In *Proceedings from 8th International Scientific Conference: GEOBALCANICA 2022* (pp. 241–248). Geobalcanica Society. <https://doi.org/10.18509/GBP22241p>

Samardžija, Dj., & Doljak, D. (2017). The Potential of Massive PV Installation in Serbia. In V. Martínez and J. González (Eds.), *Proceedings of the ISES EuroSun 2016 Conference* (pp. 1656–1663). International Solar Energy Society. <http://doi.org/10.18086/eurosun.2016.11.04>

Doljak, D., Dedić, A., & Milenković, M. (2016). Planiranje solarnih parkova – iskustva Nemačke i Srbije [Planning Aspects of Solar Parks – Experience of Germany and Serbia]. In Z. Stević (Ed.), *Proceedings of the 4th International Conference on Renewable Electrical Power Sources* (pp. 421–428). Savez mašinskih i elektrotehničkih inženjera i tehničara Srbije – SMEITS. <https://izdanja.smeits.rs/index.php/mkoiee/article/view/2693/2725>

Milenković, M., Dedić, A., & Doljak, D. (2016). Šumski požari ugrožavaju proizvodnju biomase u Eropskoj uniji: Iskustva Portugalije, Španije i Francuske nameću preventivne mere za Srbiju [Forest Fires Threaten Biomass Production in the EU: Experiences From Portugal, Spain and France Impose Preventive Measures for Serbia]. In Z. Stević (Ed.), *Proceedings of the 4th International Conference on Renewable Electrical Power Sources* (pp. 215–220). Savez mašinskih i elektrotehničkih inženjera i tehničara Srbije – SMEITS. <https://izdanja.smeits.rs/index.php/mkoiee/article/view/2669/2700>

Krsmanović, S., Perić, M., & Doljak, D. (2015). Ruralni turizam – Deo turističke ponude Srbije [Rural tourism – tourist offer of Serbia]. In T. Stanovčić (Ed.), *The Third International Scientific Conference: Trends in Development of Tourism and Hospitality* (pp. 132–137). Fakultet za turizam i hotelijerstvo.

Articles published in
national journals

Popović, D., Doljak, D., Kuzmanović, D., & Pecelj, M. (2018). Geoecological evaluation of protected area for recreation and tourism planning – the evidence from the Bosnia and Herzegovina national park. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 68(1), 119–131. <http://dx.doi.org/10.2298/IJGI1801119P>

Marković, S., Perić, M., Mijatov, M., Doljak, D., & Žolna, M. (2017). Application of tourist function indicators in tourism development. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 67(2), 163–178. <https://doi.org/10.2298/IJGI1702163M>

Jojić Glavonjić, T., Todorčić, J., Doljak, D., & Golubović, N. (2017). Analysis of tourist motifs in the function of development of cultural tourism in the settlements surrounded by protected natural resources. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 67(3), 333–340. <http://dx.doi.org/10.2298/IJGI1703333J>

Doljak, D., Jojić Glavonjić, T. (2016). State and prospects of geothermal energy usage in Serbia. *Journal of the Geographical institute "Jovan Cvijić" SASA*, 66(2), 221–236. <http://doi.org/10.2298/IJGI1602221D>

Doljak, D., Gligorović, S., Lazović, M., Marković, Đ., Mileusnić, A., Milićević, M., Nikolić, N., Obrenić, S., Pavićević, D., Samardžija, Đ. (2018). Srbija bez fosilnih goriva [Serbia without fossil fuels]. In D. Prokić (Ed.), *Zbornik radova EnE18: Zaštita prirode – Razvoj odgovoran prema prirodi* (pp. 93–99). Ambasadori održivog razvoja i životne sredine. <https://ambassadors-env.com/wp-content/uploads/Zbornik-radova-EnE18-final1.pdf>

Doljak, D. (2015). Planiranje održivih naselja [Planning Sustainable Settlements]. U A. Mihajlov (Ed.), *Zbornik radova EnE15-ENV.net: Horizontalno zakonodavstvo EU: Metode, standardi i alati u oblasti životne sredine* (pp. 210–215). Beograd: Ambasadori održivog razvoja i životne sredine. <https://ambassadors-env.com/wp-content/uploads/Zbornik-radova-EnE15-final.pdf>

Doljak, D., & Petrović, Lj. (2015). Uzroci i posledice klimatskih promena [Causes and consequences of climate change]. In J. Luković & A. Đorđević (Eds.), *Zbornik radova mladih istraživača / Osmi naučno-stručni skup sa međunarodnim učešćem Planska i normativna zaštita prostora i životne sredine* (pp. 13–21). Asocijacija prostornih planera Srbije; Univerzitet u Beogradu – Geografski fakultet. <https://dais.sanu.ac.rs/123456789/1603>

Doljak, D. (2015). Primeri dobre prakse u primeni solarne energije [Examples of good practices in implementation of solar energy]. In D. Filipović & S. Đurđić (Eds.), *Dostignuća, aktuelnosti i izazovi geografske nauke i prakse [Elektronski izvor]: povodom 150 godina rođenja Jovana Cvijića: zbornik radova mladih istraživača / 4. srpski kongres geografa sa međunarodnim učešćem* (pp. 127–132). Univerzitet u Beogradu – Geografski fakultet. <https://dais.sanu.ac.rs/123456789/1478>

Petrović, Lj., & Doljak, D. (2015). Zelena infrastruktura u funkciji zaštite prostora i naselja [Green infrastructure in the function of protecting spaces and habitats]. In D. Filipović & S. Đurđić (Eds.), *Dostignuća, aktuelnosti i izazovi geografske nauke i prakse [Elektronski izvor]: povodom 150 godina rođenja Jovana Cvijića : zbornik radova mladih istraživača / 4. srpski kongres geografa sa međunarodnim učešćem* (pp. 121–125). Univerzitet u Beogradu – Geografski fakultet. <https://dais.sanu.ac.rs/123456789/1602>

Živković, M., Radović, M., Đorđević, A., & Doljak, D. (2014). Mogućnosti unapređenja upravljanja životnom sredinom u velikim energetske sistemima [Improving possibilities of environmental management in large energy systems]. In M. Grčić, D. Filipović, & S. Dragičević, (Eds.), *Zbornik radova : povodom 120 godina Geografskog fakulteta / Naučni skup sa međunarodnim učešćem Geografsko obrazovanje, nauka i praksa – razvoj, stanje i perspektive* (pp.177–182). Univerzitet u Beogradu – Geografski fakultet. <https://dais.sanu.ac.rs/123456789/1604>

Doljak, D., Perić, M., & Kopčić, K. (2014). Planiranje korišćenja zemljišta kao mehanizam za održivi razvoj turizma [Land use planning as an instrument for sustainable tourism development]. In D. Đorđević & A. Đorđević (Eds.), *Zbornik radova mladih istraživača / Peti naučno-stručni skup sa međunarodnim učešćem Lokalna samouprava u planiranju i uređenju prostora i naselja* (pp. 75–82). Asocijacija prostornih planera Srbije; Univerzitet u Beogradu – Geografski fakultet. <https://dais.sanu.ac.rs/123456789/1606>

- Kopčić, K., Doljak, D., & Perić, M. (2014). Strateški pristupi, obrasci i odluke u upravljanju zemljištem i planiranje razvoja transporta [Strategic approaches, patterns and land use management decisions and transport development planning]. In D. Đorđević & A. Đorđević (Eds.), *Zbornik radova mladih istraživača / Peti naučno-stručni skup sa međunarodnim učešćem Lokalna samouprava u planiranju i uređenju prostora i naselja* (pp. 61–67). Asocijacija prostornih planera Srbije; Univerzitet u Beogradu – Geografski fakultet. <https://dais.sanu.ac.rs/123456789/1666>
- Doljak, D. (2014). Obnovljivi izvori energije: uticaj na životnu sredinu [Renewable energy source: Environmental impact]. In A. Mihajlov (Ed.), *Zbornik radova EnE14/ENV.net: Poglavlje 27-Životna sredina i klimatske promene* (pp. 157–162). Ambasadori održivog razvoja i životne sredine. <https://ambassadors-env.com/en/files/CD-Zornik-radova-EnE14-30-05.pdf>
- Doljak, D., & Perić, M. (2013). Uticaj obnovljivih izvora energije na predeo [Impact of renewable energy on landscape]. In M. Milinčić, D. Filipović, V. Šećerov, & M. Marić, (Eds.) *Zbornik Radova. Knj. 2 / Sedmi naučno-stručni skup sa međunarodnim učešćem „Planska i normativna zaštita prostora i životne sredine“* (pp. 231–238). Asocijacija prostornih planera Srbije. <https://dais.sanu.ac.rs/123456789/1605>
- Doljak, D., & Popadić, D. (2012). Decentralizacija Srbije i Grada Beograda u cilju rešavanja regionalnih dispariteta i veće teritorijalne kohezije [Decentralisation of Serbia and the City of Belgrade in order to resolve regional disparities and achieve greater territorial cohesion]. In V. Šećerov, Z. Radosavljević, A. Đorđević, & M. Marić (Eds.), *Zbornik radova / Četvrti naučno-stručni skup sa međunarodnim učešćem Lokalna samouprava u planiranju i uređenju prostora i naselja* (pp. 351–358). Asocijacija prostornih planera Srbije; Univerzitet u Beogradu – Geografski fakultet. <https://dais.sanu.ac.rs/123456789/1660>
- Popadić, D., Borovica, M., & Doljak, D. (2012). Razvoj opštine Prijepolje [Development of the municipality of Prijepolje]. In V. Šećerov, Z. Radosavljević, A. Đorđević, & M. Marić (Eds.), *Zbornik radova / Četvrti naučno-stručni skup sa međunarodnim učešćem Lokalna samouprava u planiranju i uređenju prostora i naselja* (pp. 501–506). Asocijacija prostornih planera Srbije; Univerzitet u Beogradu – Geografski fakultet. <https://dais.sanu.ac.rs/123456789/1661>

Other contributions

- Doljak, D. (2023, May 30). *Mapiranje solarnih potencijala Srbije: na raspolaganju gigavati čiste i održive energije* [Mapping the solar potential of Serbia: Available gigawatts of clean and sustainable energy]. *Klima 101*. <https://klima101.rs/solarni-potencijal-srbije-mapa/>
- Sochi, K., Oakleaf, J. R., Bhattacharjee, A., Evans, J. S., Vejnović, I., Dropuljić, K. Z., Mileusnić, D., Bevk, T., Bjelić, I. B., Dedinec, A., Doljak, D., Gorin, S., Pavlović, B., Zec, M. & Kiesecker, J. M. (2023). *Mapping a Sustainable Renewable Energy Transition: Handbook for Practitioners*. The Nature Conservancy. https://www.nature.org/content/dam/tnc/nature/en/documents/Europe_Energy_Practitioners_Guide.pdf