



Curriculum Vitae

Personal information

Surname/Name	Pejović Jelena	
Adress	Bulevar Džordža Vašingtona 66	
Telephone	+38267263827	
E-mail	jelenapej@ucg.ac.me	
Current position	Associate Professor Faculty of Civil Engineering University of Montenegro	

Work Experience

Period	2006 - present
Position	Associate Professor
Main activities and responsibilities	Associate Professor in courses: Earthquake Engineering, Maintenance, strengthening and retrofitting of facilities, Scientific-research and engineering activities
Name and adress of employer	University of Montenegro Faculty of Civil Engineering Bulevar Džordža Vašingtona b.b. 81000 Podgorica

Education and training

Period	2000 - 2006
Level of qualification	Dipl.Ing in Civil Engineering
Specialisation	Structures – Earthquake Engineering
Name of institution	Faculty of Civil Engineering University of Montenegro
Period	2007 - 2009
Level of qualification	MSc (Mr)
Specialisation	Structures – Earthquake Engineering

Name of institution	Faculty of Civil Engineering University of Montenegro
Period	2010 - 2016
Level of qualification	PhD (Dr – Doctor)
Specialisation	Structures – Earthquake Engineering
Name of institution	Faculty of Civil Engineering University of Montenegro
Period	2016 - 2017
Level of qualification	Postdoctorate
Specialisation	Structures – Earthquake Engineering
Name of institution	Sapienza University of Rome Faculty of Civil Engineering Department of Structural and Geotechnical Engineering

Personal skills

Other language(s)	English, Italian
Diploma	General English Language course – Advanced level Academy international London Institute of Foreign Languages in Podgorica
Communication skills	Good communication skills gained through teaching experience, through participation in numerous conferences (national and international), as well as through participation in university exchange programmes
Computer skills	<ul style="list-style-type: none"> - Advanced level knowledge of MS office (MS Word, MS Excel, MS Power Point and etc.) - Advanced and expert level knowledge of applied software (Autocad, Sap, Etabs, Perform 3D, ArmCad etc.) - Advanced level knowledge of Matlab
Driving licence	B

Additional information

Professional organisations, associations and bodies

Secretary of Montenegrin Association for Earthquake Engineering (MAEE-CAZI); National Member in EAEE (European Association for Earthquake Engineering); National member in IAEE (International Association for Earthquake Engineering); Member of Engineering Chamber of Montenegro (IKCG); Member of Working Groups for translation and elaboration of annexes of Eurocode standards, Institute for Standardisation of Montenegro (ISME); Member of Working Team for elaboration of Technical Rules for Masonry Structures, Ministry of Sustainable Development and Tourism of Montenegro.

Scientific research activities

Seismic analysis and design of the structures; Seismic risk analysis and vulnerability assessment of facilities in urban/rural regions; Probabilistic Performance-Based methods in seismic analysis and design of the structures: Probabilistic Seismic Hazard Analysis, Probabilistic Seismic Demand Analysis, Probabilistic Seismic Damage Analysis, Probabilistic Seismic Loss Analysis; Retrofitting, strengthening and structural upgrading of existing structures; Elaboration and improvement of technical regulations, standards and codes.

Publications (scientific papers) published in SCI/SCIE journals and other international journals (Scopus database, etc.)

1. Aloschi, F., Polese, M., Gaetani d'Aragona, M., Tocchi G., **Pejovic J.** and Serdar N. (2025): A seismic vulnerability model for masonry buildings in Montenegro. *Bull Earthquake Eng* 23, 2347–2376 (2025). <https://doi.org/10.1007/s10518-025-02121-0>
2. Polese M., Tocchi G., Babič A., Dolšek M., Faravelli M., Quaroni D., Borzi B., Rebori N., Ottonelli D., Wernhart S., **Pejovic J.**, Serdar N., Lebar K., Rusjan S., Masi R., Resch C., Kern H., Cipranić I., Ostojic M., Prot A. (2024): *Multi-risk assessment in transboundary areas: A framework for harmonized evaluation considering seismic and flood risks*, *International Journal of Disaster Risk Reduction*, 101, 2024, 104275, ISSN 2212-4209, <https://doi.org/10.1016/j.ijdrr.2024.104275>
3. **Pejovic J.**, Serdar, N. (2023): *Seismic loss assessment of RC high-rise buildings designed according to Eurocode 8*. *Earthquake Engineering and Engineering Vibration*, 22, 807–824 (2023), ISSN:1671-3664, <https://doi.org/10.1007/s11803-023-2199-3>
4. **Pejović J.**, Serdar, N. and Pejovic, R. (2022): *Damage Assessment of Road Bridges Caused by Extreme Streamflow in Montenegro: Reconstruction and Structural Upgrading*, *Buildings* 2022, 12, 810, ISSN: 2075-5309 <https://doi.org/10.3390/buildings12060810>
5. **Pejovic J.**, Stepinac M., Serdar N. and Jevric M. (2022): Improvement of Eurocode 8 Seismic Design Envelope for Bending Moments in RC Walls of High-rise Buildings, *Journal of Earthquake Engineering*, 26:9, 4852-4876, ISSN: 1363-2469, <https://doi.org/10.1080/13632469.2020.1846004>
6. **Pejovic J.**, Serdar N. (2021): *Estimation of inter-story drifts at onset of damage states for RC high-rise buildings*, *Earthquake and Structures*, Vol. 21(1), 2021 pp. 63–78, ISSN 2092-7614 <https://doi.org/10.12989/eas.2021.21.1.063>
7. **Pejovic J.**, Serdar N., Pejovic R. and Jankovic S. (2019): *Shear force magnification in reinforced concrete walls of high-rise buildings designed according to Eurocode 8*, *Engineering Structures*, Volume 200, 2019, 109668, ISSN 0141-0296, <https://doi.org/10.1016/j.engstruct.2019.109668>.
8. **Pejovic J.**, Serdar N. and Pejovic R. (2018): *Novel optimal intensity measures for probabilistic seismic analysis of RC high-rise buildings with core*, *Earthquakes and Structures*, Vol. 15, No. 4, 2018, 443-452, ISSN 2092-7614, <https://doi.org/10.12989/EAS.2018.15.4.443>.
9. Bayat M., Daneshjoo F., Nisticò N. and **Pejovic J.** (2017): *Seismic Evaluation of Isolated Skewed Bridges Using Fragility Function Methodology*, *Computers and Concrete*, Vol. 20, No. 4, 2017, 419-427, ISSN 1598-8198, <https://doi.org/10.12989/CAC.2017.20.4.419>.
10. **Pejovic J.**, Serdar N. and Pejovic R. (2017): *Optimal intensity measures for probabilistic seismic demand models of RC high-rise buildings*, *Earthquakes and Structures*, Vol. 13, No. 3 (2017), 221-230, ISSN 2092-7614, <https://doi.org/10.12989/EAS.2017.13.3.221>.
11. **Pejovic, J.** and Jankovic, S. (2016): *Seismic fragility assessment for reinforced concrete high-rise buildings in Southern Euro-Mediterranean zone*, *Bulletin of Earthquake Engineering*, Volume 14, No.1, 185-212, ISSN 1573-1456, <https://doi.org/10.1007/s10518-015-9812-4>.
12. **Pejovic, J.** and Jankovic, S. (2015): *Dependence of RC high-rise buildings response on the earthquake intensity*, *Journal of the Croatian Association of Civil Engineers – Građevinar*, 67(8), 749-759, 2015, ISSN 1333-9095, <https://doi.org/10.14256/JCE.1205.2014>.
13. Serdar N., **Pejovic, J.** (2024): *National seismic risk assessment for Montenegro*, *Journal of Applied Engineering Science*, Vol. 22, No. 2, 2024, Paper number: 22(2024)2, 1191, 291-296, ISSN 1451-4117, DOI:10.5937/jaes0-50481
14. **Pejovic, J.**, Serdar N., Janković S. (2021): *Seismic vulnerability assessment of high-rise buildings: comparison related to the magnitude and distance to source*, *Researches 2020, Special Issue of the Journal Istraživanja/Researches on the occasion of the 40th anniversary of the Faculty of Civil Engineering in Podgorica 1980-2020*, University of Montenegro, 93-102, ISBN 978-86-7664-198-7, COBISS.CG-ID 17407748.
15. **Pejovic, J.** and Jankovic, S. (2015): *Selection of Ground Motion Intensity Measure for Reinforced Concrete Structure*, *Procedia Engineering*, 117(2015) 593–600. <https://www.sciencedirect.com/science/article/pii/S1877705815018731>
16. Pejovic, R., **Pejovic, J.**, Serdar, N. (2015): *Effect of Prestressing on Plastic Behaviour of Reinforced Concrete Frame*, *Procedia Engineering*, 117 (2015) 580–587. <https://www.sciencedirect.com/science/article/pii/S1877705815018718>
17. Serdar, N., **Pejovic, J.**, Pejovic, R. (2014): *Non-linear dynamic and static analysis of six span RC box girder bridge with hollow piers: Discussion and comparison*, *Proceeding of NCEE 2014 - 10th U.S. National Conference on Earthquake Engineering: Frontiers of Earthquake Engineering- Network for Earthquake Engineering Simulation* (distributor), 10.4231/D3SX6498D, 2014. <https://datacenterhub.org/resources/12336/download/10NCEE-001000.pdf>
18. **Pejovic, J.** and Jankovic, S. (2015): *Seismic shear design of twenty-story RC building with ductile wall system*, *Construction of Unique Buildings and Structures, Строительство уникальных зданий и сооружений*, 5 (32) 2015 63-74. http://unistroy.spbstu.ru/index_2015_32/6_pejovich_32.pdf
19. **Pejovic, J.**, Serdar, N., Pejovic, R. (2015): *Performance-based seismic methodology and its application in seismic design of reinforced concrete structures*, *Construction of Unique Buildings and Structures, Строительство уникальных зданий и сооружений*, 5 (32) 2015 75-83. http://unistroy.spbstu.ru/index_2015_32/7_pejovic_32.pdf

Scientific papers published in international and world conferences, symposia, seminars:

1. Ulku, O., Polese, M., **Pejovic, J** and Serdar, N. (2025): *An integrated methodology combining CNN with an interview-based approach to enhance rapid building inventory at the municipality scale*, Proceedings of the COMPDYN 2025 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Rhodes Island, Greece, 15–18 June 2025, <https://2025.compdyn.org/proceedings/pdf/25228.pdf>
2. **Pejovic, J.**, Serdar, N., Polese, M., Kastner, R., Faravelli, M., Gaetani d’Aragona, M., Ricci, P., Babič, A., Fazarinc, N., Cattari, S., Poggi, V., Lazzati, M., Rechberger, C., Aktaş C.B., Aydın, M.F., Kale, O., Keskin, R.S. (2025): *Enhancing urban disaster risk management: A transnational analysis of seismic risk assessment frameworks in Europe*, Proceedings of the 3rd Croatian Conference on Earthquake Engineering - 3CroCEE, pp.1026-1037, 19–22 March 2025, Split, Croatia, DOI: <https://doi.org/10.5592/CO/3CroCEE.2025.129>
3. Serdar, N. and **Pejovic, J.** (2025): *Building exposure modelling for National seismic risk assessment in Montenegro*, Proceedings of the 3rd Croatian Conference on Earthquake Engineering - 3CroCEE, pp.1169-1178, 19–22 March 2025, Split, Croatia, DOI: <https://doi.org/10.5592/CO/3CroCEE.2025.60>
4. Muric, A. and **Pejovic, J.** (2025): *Seismic performance assessment of an existing RC building in Rozaje according to EN 1998-3*, Proceedings of the International Conference Synergy of Architecture and Civil Engineering, Volume 2, September 11-12, 2025, 795-806, ISBN: 978-86-82810-16-2, <https://doi.org/10.62683/SINARG2025.113>
5. Serdar, N. and **Pejovic, J.** (2024): *Comparison of scenario-based and time-based seismic risk assessment: A case study in Montenegro*, 18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, June 30 to July 5, 2024, ISSN: 3006-5933, <https://proceedings-wcee.org/view.html?id=24054&conference=18WCEE>
6. Drobnjak, I. and **Pejovic, J.** (2024): *Seismic assessment of an existing RC frame building in Montenegro retrofitted by FRP materials*, 18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, June 30 to July 5, 2024, ISSN: 3006-5933, <https://proceedings-wcee.org/view.html?id=24054&conference=18WCEE>
7. **Pejovic, J.** and Serdar, N. (2024): *Development of national seismic risk assessment for Montenegro: Building exposure modelling*, XIII Međunarodno naučno-stručno savetovanje Ocena stanja, održavanje i sanacija građevinskih objekata The Thirteenth international scientific conference Condition assessment, maintenance and rehabilitation of civil engineering facilities, Vrnjaka Banja 19th June -21st June, Conference proceedings, pp. 65-76, ISBN 978-86-88897-20-4.
8. Serdar, N. and **Pejovic, J.** (2024): *National seismic risk assessment for Montenegro*, The ninth International Conference "Civil Engineering – Science and Practice" GNP 2024 – Kolašin, Montenegro, 5-9 March 2024, pp. 693-701, ISBN 978-86-82707-36-3, COBISS.CG-ID 28528644.
9. Rutešić, S., Beljkaš, Ž., Knežević, M., Rakočević, M. and **Pejović, J.** (2024): *Climate and sustainability in education and research at the University of Montenegro*, The ninth International Conference "Civil Engineering – Science and Practice" GNP 2024 – Kolašin, Montenegro, 5-9 March 2024, pp. 1393-1400, ISBN 978-86-82707-36-3, COBISS.CG-ID 28528644.
10. Aloschi, F., Polese, M., **Pejovic, J.** and Serdar, N. (2024): *Seismic vulnerability of masonry buildings in Montenegro: a heuristic model*, The 42nd National Conference of the GNGTS 2024, Geophysics for the future of the Planet, February 13th - 16th, 2024, Ferrara, Italy.
11. Nievas, C.I., Crowley H., Reuland Y., Weatherill G., Baltzopoulos, G., Bayliss K., Chatzi E., Guéguen P., Naylor M., Orlacchio M., **Pejovic, J.**, Serafini, F. and Serdar, N. (2023): *Exploration of state-dependent rapid loss assessment and event-based operational earthquake loss forecasting incorporating structural health monitoring: An open-source tool*, SECED 2023 Conference, Earthquake Engineering & Dynamics for a Sustainable Future, 14-15 September 2023, Cambridge, UK.
12. Popovic, N. and **Pejovic, J.** (2023): *Seismic performance evaluation of existing RC high-rise building in Montenegro*, Proceedings of the 2nd Croatian Conference on Earthquake Engineering – 2CroCEE, pp.565-575, Zagreb, Croatia – March 22 to 24, 2023, DOI: <https://doi.org/10.5592/CO/2CroCEE.2023.13>
13. **Pejovic, J.** and Serdar N. (2023): *Modal combination patterns for nonlinear static pushover analysis of RC high-rise buildings*, Geotechnical aspects of civil engineering and earthquake engineering - Vrnjačka Banja, pp. 433-440, 01-03. novembar 2023, ISBN 978-86-88897-17-4.
14. Serdar, N. and **Pejovic, J.** (2022): *The applied methodology for national seismic risk assessment: uncertainties and open questions*, Proceedings of the Third European Conference on Earthquake Engineering and Seismology –3ECEES, pp.1861-1867, September 4 - September 9 2022, Bucharest, Romania.
15. **Pejovic, J.** and Serdar N. (2022): *New velocity spectrum-based intensity measures for RC high-rise buildings*, Proceedings of the 12th National Conference in Earthquake Engineering, Earthquake Engineering Research Institute, Salt Lake City, UT. 2022.
16. Serdar, N., **Pejovic, J.** and Pejovic, R. (2022): *Nonlinear analysis of damages induced by floods for „Niko Strugar“ bridge in municipality of Berane*, Twelfth international conference Assessment, maintenance and rehabilitation of structures, Vrnjaka Banja 29th Jun -1 st July, Conference proceedings, pp. 97-104.
17. Serdar, N. and **Pejovic, J.** (2022): *Challenges in developing national seismic risk assessment*, The 8th International Conference "Civil Engineering – Science and Practice" GNP 2022 – Kolašin, Montenegro, 8-12 March 2022, pp. 415-422, ISBN 978-86-82707-35-6, COBISS.CG-ID 21036292.
18. Djonovic, Dj., **Pejovic, J.** and Serdar, N. (2022): *Towards Montenegro seismic risk assessment information system*, The 8th International Conference "Civil Engineering – Science and Practice" GNP 2022 – Kolašin, Montenegro, 8-12 March 2022, pp. 1033–1040, ISBN 978-86-82707-35-6, COBISS.CG-ID 21036292.

19. Pejovic, R., Lukovic, N., Djonovic, B., **Pejovic, J.** and Muhadinovic, M. (2022): *Structural and architectural design of Smokovac toll collection ramp on the section of the Smokovac - Mateševo highway*, The 8th International Conference "Civil Engineering – Science and Practice" GNP 2022 – Kolašin, Montenegro, 8-12 March 2022, pp. 357-364, ISBN 978-86-82707-35-6, COBISS.CG-ID 21036292.
20. Pejovic, R., Lukovic, N., **Pejovic, J.**, Djonovic, B., Serdar, N. and Muhadinovic, M. (2022): *Structural and architectural design of maintenance base on Pelev brijeg for section of the Smokovac-Mateševo highway*, The 8th International Conference "Civil Engineering – Science and Practice" GNP 2022 – Kolašin, Montenegro, 8-12 March 2022, pp. 365-372, ISBN 978-86-82707-35-6, COBISS.CG-ID 21036292.
21. Drobniak, I. and **Pejovic, J.** (2022): *Seismic assessment of an existing reinforced concrete building*, The 8th International Conference "Civil Engineering – Science and Practice" GNP 2022 – Kolašin, Montenegro, 8-12 March 2022, pp. 135-142, ISBN 978-86-82707-35-6, COBISS.CG-ID 21036292.
22. Čipranić, I., Jevrić, M., Ostojić, M., Pejović, J. and Serdar, N. (2022): *Flood risks in Montenegro*, 8th International scientific conference Safety engineering, Budva, Montenegro, September 1- 4, 2022, pp. 209-213, ISBN 978-86-6211-140-1.
23. **Pejović, J.**, Serdar, N. and Djonovic, Dj. (2022): *Development of web platform for NRA results presentation in Montenegro*, Book of abstracts of Society for Risk Analysis – Europe 30th Annual Conference with the general subject „Living with Risks – Sharing the Good Practice“, pp.78, ISBN 978-86-6022-440-0, Novi Sad, Serbia, 12-15 June, 2022.
24. Serdar N., **Pejovic J.** and Folic, R. (2021): Evaluating effects of skew angle and curvature on ductility capacity of a bridge using NSA, Proceedings of 15th International Scientific Conference INDIS, Novi Sad, Serbia, 24-26 November 2021, pp. 559-568, ISBN 978-86-6022-253-6.
25. Serdar, N., **Pejovic, J.** (2021): *40 Years after Montenegrin earthquake: lessons learned and future challenges*, Proceedings of 1st Croatian Conference on Earthquake Engineering, 1CroCEE, Zagreb, Croatia - March 22nd to 24nd, 2021, pp. 617-626, DOI: <https://doi.org/10.5592/CO/1CroCEE.2021.145>
26. **Pejovic, J.** and Serdar N. (2021): *Analysis of design possibilities of RC high-rise buildings in accordance with Eurocode 8 related to ductility classes*, Proceedings International scientific conference: Earthquake engineering and geotechnical aspects of civil engineering, Vrnjačka Banja, 03. - 05. novembar 2021, pp. 200-209, UDK: 624.042.7/.8 699.841.
27. Pejovic, R. and **Pejovic, J.** (2021): *Rehabilitation of the bridge over the river Ljuča in the municipality of Gusinje*, ASES International Symposium Proceedings DGKS, 13-15 May, 2021 Arandjelovac, Serbia, ISBN 978-86-7518-212-2.
28. **Pejovic, J.**, Serdar, N., Pejovic, R. (2020): *Limitations of Eurocode 8 dual ductility class approach in seismic design of rc high-rise buildings*, EUROLYN 2020 Proceedings of the XI International Conference on Structural Dynamics, pp. 3697-3707, Streamed from Athens, Greece, 23-26 November 2020, ISBN: 978-618-85072-2-7.
29. Pejovic, R., **Pejovic, J.**, Serdar, N. (2020): *Rehabilitation of the existing 4 span continuous girder bridge using prestressing technique*, The first IABSE Online SYMPOSIUM Wrocław 2020, Synergy of Culture and Civil Engineering – History and Challenges, pp. 1085- 1092, 7-9 October, 2020, Wrocław, Poland, ISBN: 978-3-85748-169-7.
30. Pejovic, R., **Pejovic, J.**, Serdar, N. (2020): Site-conditioned structural strengthening technics applied on the existing RC arch bridge, Proceedings of the fib Symposium 2020 - Concrete Structures for Resilient Society, Volume 4 – Chapter 20, pp. 2154-2161, 22-24 November, Held online, Shanghai, China, ISSN : 2617-4820, ISBN: 978-2-940643-04-2.
31. Serdar, N., **Pejovic, J.** (2020): *Influence of abutment model on results of bridge pushover analysis*, The 7th International Conference "Civil Engineering - Science And Practice" GNP 2020 – Kolašin, Montenegro, 10-14 March 2020, pp. 447-454, ISBN 978-86-82707-32-5, COBISS.CG-ID 40381456.
32. Pejovic, R., **Pejovic, J.**, Prascevic, V., Bojic, N. (2020): *Rehabilitation of the existing RC deck arch bridge Melještak on the main road Podgorica – Kolašin*, The 7th International Conference "Civil Engineering - Science And Practice" GNP 2020 – Kolašin, Montenegro, 10-14 March 2020, pp. 647-654, ISBN 978-86-82707-32-5, COBISS.CG-ID 40381456.
33. **Pejovic, J.**, Serdar, N., Pejovic, R., Knezevic, M., Cvetkovska, M. (2019): *Seismic fragility assessment of RC high-rise buildings in Montenegro*, IABSE Symposium 2019 Guimarães, Towards a Resilient Built Environment - Risk and Asset Management, March 27-29, 2019, 1472-1479, Guimarães, Portugal.
34. Serdar, N., **Pejovic, J.**, Pejovic, R., Knezevic, M., (2019): *Seismic risk assessment of RC curved bridges through fragility curves*, IABSE Symposium 2019 Guimarães, Towards a Resilient Built Environment - Risk and Asset Management, March 27-29, 2019, 1488-1495, Guimarães, Portugal.
35. Serdar, N., Folic, R., **Pejovic, J.** (2019): Effects of bridge abutment modelling on seismic response of skew bridges, 10th International Conference on Bridges in Danube Basin, Vienna, Austria, 25 - 27 September 2019, p. 153-157, ISBN: 978-3-9502387-2-3
36. **Pejovic, J.**, Jankovic, S., Ladjinovic Dj., Serdar N., Pejovic R. (2017): *Ground motion intensity measures for probabilistic seismic analysis of the RC high-rise buildings*, Proceedings of 16th World Conference on Earthquake Engineering, 16WCEE 2017, Santiago, Chile, 2017.
37. **Pejovic, J.**, Jankovic, S. (2016): *Relationships between the intensity measure and engineering demand parameter for RC high-rise buildings*, Fifth international conference “Earthquake Engineering and Engineering Seismology”, Sremski Karlovci 2016.
38. Nikovic, B., Serdar, N., **Pejovic, J.** (2016): *Investigation of seismic intensity measures on RC bridge for medium distant and near-fault earthquakes*, Fifth international conference “Earthquake Engineering and Engineering Seismology”, Sremski Karlovci 29-30 June 2016, UDK: 624.042.7 : 69, pp. 123-134, ISBN 978-86-88897-08-2.
39. Pejovic R., Serdar N., **Pejovic J.**, Tešović I., Bujišić M. (2016): *Application of prestressing during reconstruction and repair of concrete bridges*, Symposium 2016, Association of Structural Engineers of Serbia, Proceedings pp. 799-807, ISBN 978-86-7892-839-0, Zlatibor, 2016.

40. Serdar, N., **Pejovic, J.**, Jankovic, S. (2015): *Influence of ground motion selection methods on predicting of seismic response of RC curved bridge*, International scientific conference INDiS 2015 „Planning, design, construction and building renewal“, Novi Sad 2015.
41. **Pejovic, J.** and Jankovic, S. (2014): *Analysis of seismic shear design of twenty-story RC building with ductile wall system*, Proceedings of Second European Conference on Earthquake Engineering and Seismology, 2ECEES, Istanbul 2014.
42. **Pejovic, J.**, Jankovic, S. (2014): *Analiza proračuna na smicanje dvadesetospratne AB konstrukcije konstruktivnog sistema sa zidnim platnima*, Fourth international conference “Earthquake Engineering and Engineering Seismology”, Borsko jezero 2014.
43. **Pejovic, J.**, Serdar, N., Pejovic, R. (2014): *Effect of prestressing on plastic behavior of RC frame*, The 9th International Scientific and Professional Conference “Contemporary Theory and Practice in Construction”, Banja Luka 2014.
44. **Pejovic, J.**, Jankovic S. (2014): *Izbor mjere inteziteta zemljotresa na primjeru armiranobetonske konstrukcije*, GNP 2014 The 5th International Conference "Civil Engineering - Science And Practice", Proceedings ISBN 978-86-82707-23-3, pp. 709-716, Žabljak 2014.
45. **Pejovic J.**, Serdar N., Pejovic R. (2014): *Uticaj prethodnog naprezanja na plastično ponašanje armiranobetonskog rama*, The 5th International Conference "Civil Engineering - Science And Practice", Proceedings ISBN 978-86-82707-23-3, pp. 709-716, Žabljak, 2014.
46. Pejovic R., Blagojevic J., **Pejovic J.**, Serdar N., Blagojevic R., Prašćević V. (2014): *Reconstruction of bridge on regional road r-9 Plav – Gusinje*, The 5th International Conference "Civil Engineering - Science And Practice", Proceedings ISBN 978-86-82707-23-3, pp. 1237-1244, Žabljak, 2014.
47. Serdar N., **Pejovic J.**, Pejovic R. (2014): *Optimization of slab thickness for bridges with precasted concrete post-tensioned I girders*, GNP 2014 The 5th International Conference "Civil Engineering - Science And Practice", Proceedings ISBN 978-86-82707-23-3, pp. 586-596, Žabljak, 2014.
48. **Pejovic, J.** and Jankovic, S. (2013): *Selection of ground motion intensity measure for reinforced concrete structure*, Proceedings of the SE-50EEE, International Conference on Earthquake Engineering, 29-31 May, 2013, Skopje, Republic of Macedonia.
49. Pejovic R., Blagojevic J., **Pejovic J.**, Serdar N. (2013): *Rekonstrukcija plavskog mosta na regionalnom putu r-9 Murino-Plav-Gusinje*, Osmo naučno stručno savjetovanje: Ocjena stanja, održavanje i sanacija građevinskih objekata i naselja, Savez građevinskih inženjera Srbije, Zlatibor, 2013.
50. Pejovic R., Blagojevic J., **Pejovic J.**, Raičević M., Prašćević V., Radonjic S., Nikovic B. (2012): *Rekonstrukcija i sanacija mosta Nika Strugara u Beranama*, GNP 2012, The 4th International Conference "Civil Engineering - Science And Practice", Proceedings ISBN 978-86-82707-21-9 (book 2), pp. 1215-1222, Žabljak, 2012.
51. Pejovic R., **Pejovic J.**, Raičević M. (2011): *Reconstruction and rehabilitation of the Niko Strugar bridge over the river Lim in Berane*, International symposium, XXV Congress society for materials and structures testing of Serbia, Proceedings, ISBN 978-86-87615-02-1, Pages 423-431, Tara, 2011.
52. Pejovic R., Blagojevic J., Blagojevic R., **Pejovic J.**, Matijašević S., Prašćević V. (2011): *Rekonstrukcija nadvožnjaka u ul. bratstva i jedinstva u podgorici*, Sedmo naučno stručno savjetovanje: Ocjena stanja, održavanje i sanacija građevinskih objekata i naselja, Zbornik radova ISBN 978-86-914089-18-9-3, str. 203-208, IT-savez inženjera i tehničara Srbije, Zlatibor, 2011.
53. Pejovic R., Blagojevic J., Blagojevic R., Tasevski D., **Pejovic J.**, Matijašević S., Prašćević V. (2010): *Rekonstrukcija mosta Blaža Jovanovica preko rijeke Morače u Podgorici*, GNP 2010 The 3th International Conference "Civil Engineering - Science And Practice", Proceedings ISBN 978-86-82707-18-9 (book 1), pp.371-376, Žabljak 2010.
54. Pejovic, R., Mrdak, R., **Pejovic, J.**, Serdar, N. (2010): *Seizmička analiza visoke brane Mratinje*, GNP 2010 The 3th International Conference "Civil Engineering - Science And Practice" Proceedings, ISBN 978-86-82707-18-9 (book 1), pp.517-522, Žabljak 2010.
55. Pejovic R., Blagojevic J., Blagojevic R., Tasevski D., **Pejovic J.**, Matijašević S., Prašćević V. (2010): *Reconstruction of the Blaza Jovanovica bridge over the Moraca river in Podgorica*, The 6th International Scientific and Professional Conference “Contemporary Theory and Practice in Construction”, Proceedings ISBN 978-99955-630-5-9, pp.133-145, Ministarstvo za prostorno uređenje, građevinarstvo i ekologiju Vlade Republike Srpske, Arhitektonsko-građevinski fakultet Banja Luka, Privredna komora Republike Srpske i Zavod za izgradnju A.D. Banja Luka 2010.
56. Pejovic, R., Mrdak, R., **Pejovic, J.**, Serdar, N. (2009): *Seismic analysis of high arc dam Mratinje*, BE 40 CE the Banja Luka 40 years of earthquake, Institute of earthquake engineering, Banja Luka, Republic of Srpska, BIH, 2009.
57. Radovanovic, Ž., **Pejovic, J.**, Serdar, N. (2008): *Rehabilitation and strengthening church Saint Nikola*, 1th International RILEM Symposium on site assessment of concrete, masonry and timber structures SACoMaTiS, Lake Como, (2008), Vol 2: 995-1001.

Scientific - Research Projects and other projects

1. “BORIS2 - Cross BOrder RISk assessment for increased prevention and preparedness in Europe: way forward”, European Commission project n. 101140181-BORIS2-UCPM-2023-KAPP funded by DG-ECHO (2024-2025), Project coordinator for Montenegrin partner (University of Montenegro). <https://www.borisproject.eu/>
2. *EXPLORA - EXPosure assessment for buiLding typOlogies integRating innovAtive survey techniques (2023-2025)*, Scientific-research project within the framework of the Scientific and Technological Agreement between the Government of Montenegro

and the Government of the Republic of Italy, 2022-2025, Ministry of Science Montenegro, Project coordinator for Montenegrin partner.

3. *GeoNetSee - An AI/IoT-based system of GEOSensor NETWORKS for real-time monitoring of unstable terrain and artificial structures*, Danube Region Programme DRP0200783 – GeoNetSee, (2024-2026), Project coordinator for Montenegrin partner.
4. *BORIS - cross BOrder RiSk assessment for increased prevention and preparedness in Europe*, European Commission project n. 101004882 – UCPM-2020-PP-AG funded by DG-ECHO (2021-2022), Project coordinator for Montenegrin partner (University of Montenegro). <https://www.borisproject.eu/>
5. *Disaster Risk Management Capability Assessment*, European Commission – Directorate General for European Civil Protection and Humanitarian Aid Operations (DG ECHO), 2022-2024, Coordinator: Ministry of Interior, Rescue and Protection Directorate (RPD), Montenegro, Participant in the project.
6. *Development of National Risk Assessment for all types of hazards affecting Montenegro*, European Commission ECHO/SUB/2020/TRACK1/831677, UCPM, Directorate General for European Civil Protection and Humanitarian Aid Operations, 2021, Project Leader: Ministry of the Interior, Directorate for Emergency Management Montenegro, Participant in the project. <https://media.gov.me/media/gov/2021/mup/nacionalna-procjena-rizika-elektronska-publikacija.pdf>
7. *Smart buildings for a seismic resilient Montenegro*, Scientific-research project funded by Ministry of Science Montenegro for joining Horizon 2020 project RISE-Real-time earthquake risk reduction for a resilient Europe (2020-2022), Participant in the project.
8. *FLORIAS - Procjena rizika od poplava u Crnoj Gori - definisanje funkcija šteta za značajno ugrožena područja (eng. Flood Risk Assessment in Montenegro: Depth-Damage Relationships for Areas of Potential Significant Flood Risk)*, National Scientific-research project funded by Ministry of science and technological development Montenegro (2024-2026).
9. *Seismic vulnerability assessment of existing facilities in urban coastal area in Southern Euro-Mediterranean zone*, Scientific-research project within the framework of the Scientific and Technological Agreement between the Government of Montenegro and the Government of the Republic of Italy, 2018-2020, Ministry of Science Montenegro, Project coordinator for Montenegrin partner.
10. *Study on Earthquake Disaster Prediction and Estimation*, Scientific-research project within the framework of the Scientific and Technological Agreement between the Government of Montenegro and Republic of China, 2019-2020, Ministry of Science Montenegro, Project coordinator for Montenegrin partner.
11. „*JOINED For sUsTainability – bUilding climate Resilient communities in WB and EU – IFUTURE*“, Project 101082815-ERASMUS-EDU-2022-CBHE-STRAND-2, Erasmus+ Capacity Building in Higher Education, (2023-2026).
12. “*Curricula innovation in climate-smart urban development based on green and energy efficiency with the non-academic sector - SmartWB*“, Project 101081724 — SmartWB — ERASMUS-EDU-2022-CBHE, Erasmus+ Capacity Building in Higher Education, (2023-2026).
13. *Reducing the seismic risk for buildings of stone and brick (Smanjenje seizmičkog rizika za objekte od kamena i opeke)*, 2013-2016, Ministry of Science Montenegro, Participant in the project.
14. TU1406 Cost action: *Quality specifications for roadway bridges, standardization at a European level* <http://www.tu1406.eu/>, (2015-2019), MC (Management Committee) member.
15. TU1207 Cost action: *Next Generation Design Guidelines for Composites in Construction* http://www.cost.eu/COST_Actions/tud/TU1207, (2013-2017), MC (Management Committee) member.
16. CA18109 - *Accelerating Global Science in Tsunami Hazard and Risk analysis* <https://www.agithar.uni-hamburg.de/about.html>, (2019-2023), MC (Management Committee) member.
17. CA18110 – *Underground Built Heritage as catalyser for Community Valorisation*. <http://underground4value.eu/>, (2019-2023), MC (Management Committee) member.

Other important projects

1. *Adoption and implementation of Eurocodes as national standards for structural design*, ISME Institute for Standardization of Montenegro / Technical Committee 002: Eurocodes, 2012-2019.
2. *Translation and preparation of national annex of European standard EN1992-1-1: Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings*, ISME Institute for Standardization of Montenegro, 2016.
3. *Translation and preparation of national annex of European standard EN 1991-2, Eurocode 1: Actions on structures - Part 2: Traffic loads on bridges*, ISME Institute for Standardization of Montenegro, 2018.
4. *Translation and preparation of national annex of European standard EN 1996-1-1, Eurocode 6 - Design of masonry structures - Part 1-1: General rules for reinforced and unreinforced masonry structures*, ISME Institute for Standardization of Montenegro, 2016.
5. *Translation and preparation of national annex of European standard EN 1996-3, Eurocode 6 - Design of masonry structures - Part 3: Simplified calculation methods for unreinforced masonry structures*, ISME Institute for Standardization of Montenegro, 2016.
6. *Translation and preparation of national annex of European standard EN 1996-1-2, Eurocode 6 - Design of masonry structures - Part 1-2: General rules - Structural fire design*, ISME Institute for Standardization of Montenegro, 2016.
7. *Translation and preparation of national annex of European standard EN 1996-2, Eurocode 6 - Design of masonry structures - Part 2: Design considerations, selection of materials and execution of masonry*, ISME Institute for Standardization of Montenegro, 2018.
8. *Translation and preparation of national annex of European standard EN 1998-2, Eurocode 8 - Design of structures for earthquake resistance - Part 2: Bridges*, ISME Institute for Standardization of Montenegro, 2018.

9. *Translation and preparation of national annex of European standard EN 1998-3, Eurocode 8 - Design of structures for earthquake resistance - Part 3: Assessment and retrofitting of buildings*, ISME Institute for Standardization of Montenegro, 2018.
10. *Technical Rules for Masonry Structures*, Ministry of Sustainable Development and Tourism of Montenegro, 2016.

Significant studies, expertise and analysis

1. *Study on the dynamic and static behavior of arch dam HE Piva (Studija o dinamičkom i statičkom ponašanju lučne brane HE Piva)*, Faculty of Civil Engineering, University of Montenegro, 2008.

Master thesis

Pejovic J.: *Analiza nove "Performance-based" metodologije kod seizmičkog projektovanja armiranobetonskih konstrukcija (Analysis of new Performance-based methodology for seismic design of reinforced concrete structures)*, 2009, The Faculty of Civil Engineering, University of Montenegro.

PhD thesis

Pejovic J.: *Seizmička analiza visokih armiranobetonskih zgrada (Seismic analysis of reinforced concrete high-rise buildings)*, 2016, The Faculty of Civil Engineering, University of Montenegro.

Monographs

1. Serdar N., **Pejović J.** (2019): *Alternative seismic vulnerability assessment method of reinforced curved bridges*, "Theory of Civil Engineering Structures", Monograph dedicated to the memory of Professor Miodrag Sekulović, "Teorija građevinskih konstrukcija", Monografija posvećena uspomeni na profesora Miodraga Sekulovića, Univerzitet u Beogradu-Građevinski fakultet, Univerzitet Crne Gore-Građevinski fakultet, Akademija inženjerskih nauka Srbije, Beograd, 2019, ISBN 978-86-7518-208-5, st.163-170.
2. **Pejovic J.** (2016): *Procjena seizmičke povredljivosti visokih armiranobetonskih zgrada u južno-evropskoj mediteraskoj zoni*, The monograph: "Contemporary Problems of the theory of structures" Faculty of Civil Engineering Belgrade and Faculty of Civil Engineering Podgorica, ISBN 978-86-86363-69-5, Belgrade, 2016.

Presentations by invitation to international peer-reviewed conferences, forums

1. **Pejovic, J.** (2023): *Towards Montenegro seismic risk assessment and reduction platform*, The Tenth Kwang-Hua Forum Innovations and Implementations in Earthquake Engineering Research, Tongji University, December 8-11, 2023 Shanghai, China.
2. **Pejovic, J.** (2023): *Development of National Seismic Risk Assessment for Montenegro: Building Exposure Modelling*, CIBv2023 International Scientific Conference Civil Engineering and Building Services, Brasov, 2-3 November 2023, ISSN 1843-6617.
3. **Pejovic, J.:** *Ground motion intensity measures for probabilistic seismic analysis of the RC high-rise buildings*, 16th World Conference on Earthquake Engineering, 16WCEE 2017, Santiago, Chile, General Session Chairman: Probabilistic Methods.
4. **Pejovic J.:** *Masonry buildings – Zidane konstrukcije*, Informative seminar on Eurocodes 2013 Engineers Chamber of Montenegro - Professional Chamber of Civil Engineers.

The organization of international conferences (membership in administrative, program committees, editing of proceedings)

1. The Ninth International Conference Civil Engineering - Science & Practice GNP2024, Kolašin, 5-9 March 2024 (Editorial board for GNP 2024 proceedings ISBN 978-86-82707-36-3, COBISS.CG-ID 28528644)
2. The International Conference on Earthquake Engineering in the organization of EAEE (European Association for Earthquake Engineering). Deputy of Montenegrin Association for Earthquake Engineering (MAEE) and national member in the administrative and program committee:
16th European Conference on Earthquake Engineering (16ECEE), Thessaloniki 2018.
Second European conference on earthquake engineering and seismology (2ECEES), Istanbul 2014.
3. The International Conference on Earthquake Engineering in the organization IAEE (International Association for Earthquake Engineering). Deputy of Montenegrin Association for Earthquake Engineering (MAEE) and national member in the administrative and program committee:
The 16th World Conference on Earthquake Engineering (16WCEE), Santiago, Chile 2017.

Mobility

Erasmus+staff mobility for training University of Bologna, Department of Civil, Chemical, Environmental and Materials

Engineering Italy (12.02.2024 – 16.02.2024)

Erasmus+staff mobility for training Université Côte d'Azur in Nice, France (21.03.2022-29.03.2022)

Erasmus+staff mobility for teaching Faculty of Civil Engineering of Slovak University of Technology in Bratislava (11.12.2017-15.12.2017)

CEEPUS CIII-BG-0022-09-1314 University Sts. Cyril and Methodius – Skopje, Civil Engineering faculty – Department of Structural Mechanics (17.04.2014 – 28.04.2014)

Significant design projects

1. *Main design of reconstruction and retrofitting of bridge Blazo Jovanovic across Moraca river in Podgorica*, designer, 2009.
2. *Main design of reconstruction and retrofitting of bridge in street „Bratstva i jedinstva“ in Podgorica*, designer, 2009.
3. *Main design of reconstruction and retrofitting of bridge across Juskovic river in Mojkovac*, designer, 2009.
4. *Main design of reconstruction and retrofitting of bridge Marsenic across river Lim in Andrijevica*, designer, 2010.
5. *Main design of reconstruction and retrofitting of bridge „Nika Strugara“ across river Lim in Berane*, designer, 2010.
6. *Main design of reconstruction and retrofitting of bridge „Novšići“ across river Lim in municipality Andrijevica*, designer, 2010.
7. *Main design of reconstruction and retrofitting of bridge „Seoca“ across river Lim in municipality Andrijevica*, designer, 2010.
8. *Main design of bridge „Zorići“ across river Lim in municipality Andrijevica*, designer, 2010.
9. *Main design of rehabilitation and retrofitting of church Sv. Vrači, Muo-Kotor*, designer, 2007.
10. *Main design of rehabilitation and retrofitting of church Sv. Ilija in Zagora*, designer, 2007.
11. *Main design of rehabilitation and retrofitting of church Sv. Nikola in Prčanj, Kotor*, designer, 2007.
12. *Main design of planning Belane coast in Tivat*, designer, 2012.
13. *Main design of reconstruction of SDK building in Kotor*, designer, 2012.
14. *Main design of building for technical review of Lovcen insurance in Podgorica*, designer, 2011.
15. *Main design of the service area facilities for Bar –Boljare highway section Smokovac – Mateševo*, designer, 2016-2018.
16. *Main design of technical measures of environmental protection on the highway Bar-Boljare, section Smokovac-Mateševo*, 2016-2017, designer, 2016.
17. *Main engineering design for the land development for rest-area Pelev brijeg on the highway Bar-Boljare, section Smokovac-Mateševo*, designer, 2018.
18. *Main design of reconstruction and retrofitting of bridge Melještak on road Podgorica – Kolašin*, designer, 2018.

Awards and honors

1. Acknowledgment of the University of Montenegro for achieved results and contributions to the development of scientific research at the Faculty of Civil Engineering in 2019.
2. Award for postdoctoral research scholarship „National Scholarship for Excellence“ for young, talented university students and researchers from Montenegro - Ministry of Science and Ministry of Education, the project "Higher Education and Research for Innovation and Competitiveness - HERIC-HERIC".
3. Award of the »Vladimir Stankovic« for the best Graduate Thesis in 2006.
4. Student Award "19 December ", the highest award that the Municipality of Podgorica, on the occasion of Liberation Day, awarded to the best students.
5. Award of the University of Montenegro for academic year 2004/2005, as the best student of Faculty of Civil Engineering.
6. Award for excellent results by Faculty of Civil Engineering, University of Montenegro (2002-2006).
7. Numerous awards in regional and national competitions in mathematics: winner of first (I) place on 21 Republican Montenegrin competition »Nauku Mladima« in the field of mathematics.
8. Numerous awards at the republic competition in literary writing: the winner of the first (I) place at the Republic Montenegrin competition in the literary writing.