

UNIVERZITET U SARAJEVU – GRAĐEVINSKI FAKULTET

Komisija za pripremanje prijedloga za izbor u naučnonastavno zvanje vanredni profesor

Dr.sc. **Mladen Vukomanović**, dipl.ing.građ. - redovni profesor, Građevinski fakultet Sveučilišta u Zagrebu, Područje tehničkih znanosti, polje građevinarstvo, grana organizacija i tehnologija građenja

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UNIVERZITET U SARAJEVU
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Broj: 03-2-1869-8/22

Datum: 20.02. 2023 god.

UNIVERZITET U SARAJEVU

GRAĐEVINSKI FAKULTET

VIJEĆU UNIVERZITETA U SARAJEVU – GRAĐEVINSKI FAKULTET

Odlukom Vijeća Univerziteta u Sarajevu – Građevinski fakultet broj: 02-1-1869-7/23 od 31.01.2023. imenovana je Komisija za za pripremanje prijedloga za izbor/napredovanje u naučnonastavno zvanje: vanredni profesor za naučnu oblast "Saobraćajnice", podoblast "Tehnologija i organizacija građenja"

- Dr.sc. Mladen Vukomanović, dipl.ing.građ. - redovni profesor, Građevinski fakultet Sveučilišta u Zagrebu, Područje tehničkih znanosti, polje građevinarstvo, grana organizacije i tehnologije građenja - predsjednik Komisije
- Dr.sc. Zlata Dolaček-Alduk, dipl.ing.građ. - redovni profesor, Sveučilišta Josipa Jurja Strossmayera u Osijeku, Građevinski i arhitektonski fakultet Osijek, Područje tehničkih znanosti, polje temeljne tehničke znanosti - članica Komisije
- Dr.sc. Suada Sulejmanović, dipl.ing.građ., vanredni profesor Univerziteta u Sarajevu - Građevinski fakultet, naučna oblast "Saobraćajnice" - članica Komisije.

Na osnovu potvrde broj 03-1869-5/22 od 27.01.2023. godine Komisija je konstatovala da se na konkurs objavljen 04.01.2023. godine (ispravka 11.01.2023.) u dnevnim novinama „Dnevni avaz“, web stranici Univerziteta u Sarajevu i web stranici Univerziteta u Sarajevu – Građevinski fakultet pod tačkom izbor za nastavnoučeno zvanje vanredni profesor naučne oblasti "Saobraćajnice", podoblast "Tehnologija i organizacija građenja" prijavio jedan kandidat, **dr. sc. Žanesa Ljevo, dipl. ing. građ.**

Konkursna prijava kandidata sadrži:

- Biografiju (CV) – printana i elektronska forma,
- Izvod iz matične knjige rođenih (ovjerena kopija),
- Uvjerenje od državljanstvu,
- Diploma (sa dodatkom diplomi) o završenom III. ciklusu studija Građevinskog fakulteta o sticanju naučnog stepena – doktor tehničkih nauka (ovjerena kopija),

- Diploma magistra tehničkih nauka iz oblasti građevinarstva, stečena na Građevinskom fakultetu Univerziteta u Sarajevu (ovjerena kopija),
- Diploma o završenom studiju visoke stručne spreme Građevinskog fakulteta u Sarajevu, Odsjek za konstrukcije i sticanju stručnog naziva – diplomirani inženjer građevinarstva (ovjerena kopija),
- Bibliografija/spisak objavljenih naučnih radova – printana i elektronska forma,
- Objavljena knjiga (naslovnica, ISBN) – kopija
- Ispis iz WoS i Scopus baze i Google Scholar,
- Objavljeni naučni i stručni radovi koji su objavljeni od posljednjeg izbora (25.04.2018.), (16 članaka) – kopije,
- Potvrda o provedenom izbornom periodu u zvanju docenta,
- Spisak mentorstava kandidata II ciklusa studija,
- Ugovor o djelu na ERASMUS+ projektu (REACT) – kopija.

Komisija je na osnovu priložene dokumentacije i ličnog poznavanja kandidata pripremila Vijeću Univerziteta u Sarajevu – Građevinski fakultet sljedeći Izvještaj sa prijedlogom za izbor:

IZVJEŠTAJ

a) BIOGRAFSKI PODACI

ŽANESA LJEVO

Rođena 09. augusta 1978. godine u Konjicu. Osnovnu školu je završila u Konjicu, nakon osnovne škole završava opću gimnaziju. Nakon srednje škole upisuje Građevinski fakultet Univerziteta u Sarajevu, gdje 2004. godine diplomira. Poslije diplomiranja, kandidatkinja je zaposlena u građevinskoj kompaniji "Prominvest" d.o.o. Konjic 01.03.2005. - 01.12.2005. U decembru 2005. godine je angažovana kao asistent na Građevinskom fakultetu u Sarajevu na predmetu Organizacija i tehnologija građenja. Postdiplomski studij na Građevinskom fakultetu u Sarajevu završila je 02.09.2011. godine, odbranivši magistarski rad pod nazivom *"Istraživanje modela poslovnog procesa graditeljske prakse u visokogradnji na primjeru privrednog subjekta"*.

U januaru 2012. je izabrana u zvanje višeg asistenta na Građevinskom fakultetu u Sarajevu za užu oblast "Tehnologija i organizacija građenja" i učestvuje u realizaciji nastave i vježbi na predmetima Tehnologija građenja, Organizacija građenja, Stručna praksa, Upravljanje projektom.

Pedagoški rad usavršava na seminaru "Reforma visokog obrazovanja implemntacija bolonjskog procesa na univerzitetu u Sarajevu" 2007. godine, kao i na seminaru "Pedagoško obrazovanje nastavnika i saradnika", juna 2008 godine. Pohađala je i seminare vezane za upravljanje projektima, od 2013. je certificirani saradnik voditelja projekta (IPMA D level), a od 2018. je certificirani voditelj projekta (IPMA C level), prema IPMA-i.

Naučno-istraživački rad u oblasti Tehnologije i organizacije građenja, započet kroz magistarski rad, mr.sc. Žanesa Ljevo nastavlja upisom III ciklusa - doktorskog studija na Građevinskom

fakultetu u Sarajevu. Doktorsku disertaciju pod nazivom "*Uticaj upravljanja projektima na ostvarenje kvalitete kod građevinskih poslovnih sistema*" je odbranila 22.12.2017.

Služi se dobro engleskim jezikom i radom na računaru, te se uspješno koristi softverskim paketima: MS Office, Tower, AutoCAD, ArmCAD, CreIDRAW, SketchUp, MS Project, SPSS, AMOS, GALA, Primavera i drugi.

U periodu od oktobra 2018. Do oktobra 2022. obavljala je funkciju rukovodioca Odsjeka za saobraćajnice Građevinskog fakulteta u Sarajevu.

Od oktobra 2018. je predsjednica Odbora za osiguranje kvaliteta Univerziteta u Sarajevu - Građevinski fakultet.

Certifikati, treninzi, seminari, projekti:

- Certifikat o učešću na stručnom program obuke za žene koje aktivno djeluju u oblasti energijske efikasnosti u zgradarstvu, 2022.
- IPMA certifikat Level C - Certified Project Manager/ certifikovani voditelj projekta od jula 2018.
- TRAIN Program Univerziteta u Sarajevu, 2019.
- Certificirani voditelj projekta (IPMA C level), Udruženje za upravljanje projektima BiH, Sarajevo 2018.
- Support of Introduction of Quality Management Systems in Bosnia and Herzegovina - Integration of ISO 9001 QMS with other standardized management system, EU-QMS BiH, Mostar 2014.
- Certificirani saradnik voditelja projekta (IPMA D level), Udruženje za upravljanje projektima BiH, Banja Luka 2013.
- Inovirani i harmonizirani FIDIC-ovi uslovi ugovora za potrebe velikih međunarodnih razvojnih banaka, UKI BiH i IFC, Sarajevo 2009.
- Upravljanje projektima u građevinarstvu i uslovi ugovora prema FIDIC-u, UKI BiH i IFC, Sarajevo 2008.
- Pedagoško obrazovanje nastavnika i saradnika, Univerzitet u Sarajevu, Sarajevo 2008.
- Reforma visokog obrazovanja implemntacija bolonjskog procesa na Univerzitetu u Sarajevu, Univerzitet u Sarajevu, Sarajevo 2007.
- Učestvovala je na izradi studija i projekata, kako na Institutu za saobraćajnice tako i za druge konsultantske i projektantske kuće.
- Učestvovala je u realizaciji projekta UNDP-a "Trening tehncial documentacion" gdje je bila jedan od predavača (juni - juli 2018.).
- Učesvovala je u organizaciji i realizaciji projekta Društva za razvoj, promociju i primjenu naprednih tehnologija (DnT) pod nazivom "Project Menagement Academy" (novembar – decembar 2019.)
- Učestvuje u realizaciji ERASMUS+ projekta "Ready, Active, Digital Project Code: 2020-1-DK01-KA226-VET-094178" kao član tima ispred organizacije CEUP (Centar za edukaciju upravljanja projektom) Livno (mart 2021. - juni 2023.).

b) OCJENA ISPUNJENOSI USLOVA ZA IZBOR

1. Završen odgovarajući ciklus studija

Kandidatkinja dr.sc. Žanesa Ljevo, dipl.ing.građ. je kroz priloženu dokumentaciju dokazala da ima završen odgovarajući ciklus studija (Diploma (sa dodatkom diplomi) o završenom III. ciklusu studija Građevinskog fakulteta o sticanju naučnog stepena – doktor tehničkih nauka; Diploma magistra tehničkih nauka iz oblasti građevinarstva, stečena na Građevinskom fakultetu Univerziteta u Sarajevu; Diploma o završenom studiju visoke stručne spreme Građevinskog fakulteta u Sarajevu, Odsjek za konstrukcije i sticanju stručnog naziva – diplomirani inženjer građevinarstva (ovjerena kopija).

2. Objavljeni naučni radovi

Spisak objavljenih radova 2018. - 2023. godine u relevantnim bazama WoS, Scopus, TRID (sortirano od novih ka starijim objavama)

KONGRESI

- 1 A MODEL FOR PREDICTING ROAD ROUGHNESS: CASE STUDY IN BOSNIA AND HERZEGOVINA** Fata Terzić, Mirza Pozder, Ammar Šarić, Sanjin Albinović, Suada Sulejmanović, **Žanesa Ljevo**, *Advanced Technologies, Systems, and Applications VII. IAT 2022. Lecture Notes in Networks and Systems, vol 539., pp 189–195, Springer, Cham.* <https://doi.org/10.1007/978-3-031-17697-5> 16 - naučni rad

Abstract: *The paper presents the research results on the influence of parameters on the roughness of flexible pavement structures to develop a simple model that will predict the International Roughness Index (IRI) based on parameters that characterize roads and traffic. The basic idea is that road network operators generally do not have access to road roughness equipment, and the future model can be used to determine and predict roughness at the section and traffic network level. The first part of the model refers to the values of IRI in a given time section (IRI0). The second part of the research refers to the model of change of IRI (ΔIRI) in a certain period of time, depending on other variables (data that can be collected in the field relatively quickly and at low cost) and represents an important input for determining the type and optimal road intervention time.*

- 2 FLOOD RISK ANALYSIS ON THE RAIL NETWORK AT FEDERATION OF BOSNIA AND HERZEGOVINA** Suada Sulejmanović, Sanjin Albinović, **Žanesa Ljevo**, Mirza Pozder, Ammar Šarić *Advanced Technologies, Systems, and Applications VII. IAT 2022. Lecture Notes in Networks and Systems, vol 539, pp 196-208, Springer, Cham.* <https://doi.org/10.1007/978-3-031-17697-5> 17- naučni rad

Abstract: *The paper discusses the impact of climate change (floods) on the FBiH railway network. The methodology for analysing the impact of 200-year and 500-year floods on the railway network has been developed. The parts of the railway infra-*

structure exposed to the risk of floods have been identified based on geospatial data and QGIS software tools. The risk of railway damage was determined for each section at risk, using defined flood-risk thresholds. Finally, the risk map was developed as a result of the analysis. The paper also describes possible damage and appropriate rail protection measures: preventive protection measures, flood protection measures, and rehabilitation measures.

- 3 THE INFLUENCE OF DEFLECTION MEASUREMENT INTERVAL ON STRUCTURAL NUMBER OF PAVEMENT STRUCTURE** Mirza Pozder, Admir Helić, Ammar Šarić, Sanjin Albinović, Suada Sulejmanović, **Žaneta Ljevo**, *Advanced Technologies, Systems, and Applications VII. IAT 2022. Lecture Notes in Networks and Systems*, vol 539, pp 209-217, 2022. Springer, Cham. https://doi.org/10.1007/978-3-031-17697-5_18 - naučni rad

Abstract: The subject of research is the determination of characteristic deflections and the effective structural number of a flexible pavement structure for different intervals of deflection measurement. The effective structural number is a parameter based on which the condition of the pavement structure is estimated according to the AASHTO/93 methodology. By measuring the deflections at larger intervals than the one prescribed in practice and determining the magnitude of deviations from the relevant deflection, the influence of the interval of deflection measurement on the effective structural number of the pavement structure was investigated. Increasing the deflection measurements makes it possible to reduce the measurement time at the network level.

- 4 METHODOLOGY OF FLOOD RISK ASSESSMENT ON THE MAIN ROAD NETWORK IN THE FEDERATION OF BOSNIA AND HERZEGOVINA**, Suada Sulejmanović, **Žaneta Ljevo**, Mirza Pozder, Ammar Šarić, Sanjin Albinović, *6th International Conference on Road and Rail Infrastructure*, 2022. <https://doi.org/10.5592/CO/cetra.2022.1484> - naučni rad

Abstract: Increasingly common occurrence of rain with a significant amount of precipitation in one hour, which causes floods. Floods cause great material and intangible damage per population and often endanger human lives. The road network in such situations has crucial importance to take urgent intervention measures and rescue people, animals and material goods. This paper is focused on the natural flood disaster and its influence on road infrastructure and presents the risk assessment methodology and determines critical road sections of main roads in the Federation of Bosnia and Herzegovina, analyzing data on 100-year floods.

- 5 QUALITY IN CONSTRUCTION PROJECT MANAGEMENT PROCESS**, **Žaneta Ljevo**, Suada Sulejmanović, Mirza Pozder, Ammar Saric, Sanjin Albinović, *Advanced Technologies, Systems, and Applications VI. IAT 2021. Lecture Notes in Networks and*

Systems, vol 316. pp 410-420, Springer, Cham., https://doi.org/10.1007/978-3-030-90055-7_33 - naučni rad

Abstract: The construction sector, and thus the construction projects, are an essential factor in each country's economy. In Bosnia and Herzegovina (BIH), project management is still at a low level of performance. Over fifteen million new project management roles globally across seven project-intensive industries (construction is among them) were created between 2010–2020. This paper will present the research results in BIH, aiming to demonstrate the possibility of identifying the influence that the project management processes have on the quality of the end product at delivery. Through a survey and case studies, 79 (75) construction projects were examined. The survey covered clients, designers, contractors, and consultants. The obtained results showed differences in results through exploratory factor analysis models in the same project phase, and those models will help all participants in the project. This research will help participants in construction projects focus on the key factors that direct the project towards achieving its final quality.

6. **ENVIRONMENTAL IMPACT OF DIFFERENT TYPES OF INTERSECTIONS IN URBAN AREAS**, Ammar Šaric, Sanjin Albinovic, Anisa Krnjić, Mirza Pozder, Suada Sulejmanović, **Žaneta Ljevo**, Advanced Technologies, Systems, and Applications VI. IAT 2021. Lecture Notes in Networks and Systems, vol 316. pp 374-386, Springer, Cham., https://doi.org/10.1007/978-3-030-90055-7_30 - naučni rad

Abstract: Cities in Bosnia and Herzegovina face a high concentration of small particles in the air that are harmful to human health. One of the key factors influencing environmental pollution is pollution caused by motor vehicle emissions. As the traffic load increases, the emission of harmful gases also increases, directly affecting the quality of life. This paper studies how different types of intersections in urban areas can affect the level of air pollution. Two existing signalized intersections in Sarajevo and variants of the planned roundabout were analyzed. All solutions are modeled in the PTV Vissim software package. A comparative analysis was performed for a signalized intersection and a roundabout at the same location in terms of environmental impact and basic emission factors. Different results were obtained at both locations. At the first location, the roundabout proved to be a partially better solution, while at the second location, the classic signalized intersection is a better solution regarding environmental pollution. Obtained results suggest that the level of service of the intersection significantly affects the emission of pollutants.

7. **RESEARCH FINANCING MODELS FOR CONSTRUCTION OF UNDERGROUND GARAGES IN SARAJEVO**, Suada Sulejmanović, **Žaneta Ljevo**, Ammar Saric, Mirza Pozder, Advanced Technologies, Systems, and Applications VI. IAT 2021. Lecture Notes in Networks and Systems, vol 316. pp 457-468, Springer, https://doi.org/10.1007/978-3-030-90055-7_36 - naučni rad

Abstract: One of the burning issues of almost every urban environment is parking space. Due to the lack of free land surface in densely populated areas, underground garages' construction is most often resorted to. However, as the adopted regulatory plan limits this space and the network of roads that should accept all the newly created traffic, the number of parking spaces usually does not justify underground garages' financial profitability. Due to the limited budget of local government levels, it is crucial to find the optimal solution for constructing this type of facility that will surely benefit the community and society. Moreover, we can observe this issue from an environmental point of view. The benefit can also be seen by reducing noise and air pollution due to the shorter time that vehicles are looking for a parking space. The paper presents two different ways of financing the construction of three underground garages in Sarajevo. A comparative analysis was performed using the traditional method of financing and public-private partnership. An example of achieving profitability of two financially unprofitable garages in a joint project with one financially profitable garage is presented.

- 8 IMPROVED APPLICABILITY DIAGRAM OF TWO-LANE ROUNDABOUTS**, 6th International Conference on Road and Rail Infrastructure, 2021. Ammar Saric, Sanjin Albinovic, Mirza Pozder, Suada Dzebo, **Žaneta Ljevo**, Emira Muftić, <https://doi.org/10.5592/CO/cetra.2020.1026> - naučni rad

Abstract: When reconstructing existing or constructing completely new intersections, the main problem is determining the type of future intersection. Capacity is one of the key indicators that influence the choice of traffic control type. In this paper, using different scenarios of theoretical traffic flow distributions and traffic volume scenarios, the authors have determined the applicability area of two-lane roundabouts. The results obtained were used to improve the existing applicability diagrams of the various intersection types presented in several issues of US Highway Capacity Manuals (US HCM). Capacity in each scenario is determined using HCM 2010 and Hagrind methods with practically obtained values of the time gap acceptance parameters.

- 9 INFRASTRUCTURE PROJECTS AND BUILDING INFORMATION MODELLING IN BOSNIA AND HERZEGOVINA**, 6th International Conference on Road and Rail Infrastructure, 2021. **Žaneta Ljevo**, Mirza Pozder, Suada Džebo, Ammar Šarić, Sanjin Albinović, <https://doi.org/10.5592/CO/cetra.2020.1066> - naučni rad

Abstract: Building Information Modelling (BIM) is a relatively new technology. The industry, especially when it comes to infrastructure projects, is just beginning to realize the potential benefits of it. Large capital projects are being done today using BIM technology and standards, while in Bosnia and Herzegovina today, we do not have a project implemented by it. BIM is still exhibiting varying states of maturity among its participants. The research was carried out in B&H to realize perceptions of BIM in the infrastructures projects from the perspective of different participants (investor, consultant, designer, supervising engineer, contractor, supplier). The following aims are

to demonstrate perception about BIM, the willingness to apply it, and different varying states of maturity among its participants and the current degree of application in practice.

- 10 FLOOD IMPACT AND RISK ASSESSMENT ON THE ROAD INFRASTRUCTURE IN FEDERATION OF BOSNIA AND HERZEGOVINA** Suada Džebo, Ammar Šarić, Sarah Reeves, Žaneta Ljevo, Emina Hadžić, *Advanced Technologies, Systems, and Applications IV - Proceedings of the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT 2019)*. IAT 2019. Lecture Notes in Networks and Systems, vol 83.pp 276-289 Springer, Cham. https://doi.org/10.1007/978-3-030-24986-1_22 - naučni rad

Abstract: The transport network is very important for the economic development of each country, enabling the movement of goods and people. Damage on road infrastructure poses a direct threat to people's safety, causing traffic disruption and economic and social impacts. The paper deals with the impact of floods on road infrastructure in the Federation of Bosnia and Herzegovina. The paper describes the interaction between the road network and flood as well as their vulnerability, hazards, risks and risk reduction. The main concept and methodological approach for estimating the flood risk for the road transport network have been presented. The proposed climate risk assessment is an indicator-based methodology adjusted to available data.

- 11 CHALLENGES AND PERSPECTIVE OF BUILDING INFORMATION MODELING IN BOSNIA AND HERZEGOVINA**, "Advanced Technologies, Systems, and Applications III. IAT 2018. Lecture Notes in Networks and Systems, vol 60. Springer, Cham. p. 28-33, 2019. Žaneta Ljevo, Suada Džebo, Mirza Pozder, Saša Džumhur, https://doi.org/10.1007/978-3-030-02577-9_4 - naučni rad

Abstract: Building Information Modeling (BIM) content has become the most advanced approach to integrating information in infrastructure projects. There is a clear trend of BIM expansion worldwide, but Bosnia and Herzegovina (B&H) is lagging behind as there are still no BIM projects done. Industry reports forecast that the wider adoption of BIM will unlock 15–25% savings to the global infrastructure market by 2025. The benefits of BIM are many and mostly refer to improved collaboration within stakeholders, reduced costs for companies as well as reduced repetitive and time-consuming procedures. This paper brings out the results of the BIM awareness survey conducted in B&H, including the ranking of expected advantages for B&H construction industry from implementation of BIM. Apparently, there are many challenges ahead Governments, construction industry and academy in the country. Therefore, this paper also draft outlines of roadmap for the BIM implementation at the national level.

- 12 IMPORTANCE AND COMPARISON OF FACTORS INFLUENCING SUCCESS IN CONSTRUCTION PROJECT IN BOSNIA AND HERZEGOVINA AND CROATIA,**

"Advanced Technologies, Systems, and Applications II", Springer International Publishing AG 2019, Lecture Notes in Networks and Systems, **Žaneta Ljevo**, Suada Džebo, <https://doi.org/10.1007/978-3-030-02577-9> 3 - naučni rad

Abstract: More than 2/3 organization don't fully understands the value of project management. Organizations that undervalue project management as a strategic competency report an average of 50% more of their projects failing outright. Projects are 2.5 times more successful when proven project management practices are used. This paper show the results of research in construction organization in Bosnia and Herzegovina about project management and factors success. In the research conducted in Bosnia and Herzegovina and Croatia, 154 respondents participated. The only successful projects are completed on time, within budget and quality for 16.7% Investors, 33.3% Contractors and 25.0% Project Management. The following success factors were analyzed: project mission, project schedule/plans, top management support, client consultation and acceptance, monitoring and feedback, communication, personnel. Communication and top management support are most important for performance/execution phase.

- 13 CLIMATE CHANGE IMPACTS ON ROADS IN BOSNIA AND HERZEGOVINA**, *Fifth International Conference on Road and Rail Infrastructure*, 2018. Suada Džebo, **Žaneta Ljevo**, Ammar Šarić, p. 1017-1023, <https://doi.org/10.5592/CO/cetra.2018.962> - naučni rad

Abstract: Safe and efficient transport system are essential in the functioning of business and society at large. The consequence of extreme weather events due to climate change are usually interruption of road network and inaccessibility to urban and economic areas. In Bosnia and Herzegovina climate change manifested itself by gradual changes in climate parameters in the last ten years. So, changes go unnoticed but still have effect on durability and functioning of road infrastructure, like continuous temperature rise, changing of ground water levels, extreme rainfall events, higher maximum temperature and higher number of consecutive hot days, drought (consecutive dry days), extreme wind speed, foggy days, heavy rain for longer periods. As with many hazards, the best way to avoid damage caused by climate change are prevention and preparedness. This paper presents impacts of climate change on roads in Bosnia and Herzegovina, and measures for mitigation and adaptation of road network. - naučni rad

- 14 CONSTRUCTION PROJECT MANAGEMENT IN PRACTICE**, *4th SENET – IPMA Regional Conference on project Management – Centarl & South –East Europe Project managemenz for Society Development*, Brijuni 2018., ISBN 978-953-98870-9-2, **Žaneta Ljevo**, Mladen Vukomanović, Ivana Mišković, Slaviša Lukić - naučni rad

Abstract: The formal usage of project management competences leads to better and satisfying results in more than 80% of cases in achieving goals and business intent,

although the construction industry still shows low performance in project management. This paper will show the results of research for project management in construction industry of Bosnia and Herzegovina and Croatia together with key quality factors of the project management processes and products. In the research, main participants in construction industry took part in survey including manager perspective investors, contractors/subcontractors, designers, project managers and consultants. There are differences in answers between manager perspective and countries. In percentage, 12.5% of investors in B&H (0% in Croatia) are not familiar with the fact, whether the project management had better results if project team members held an international certificate. There are also significant differences between participants in understanding the importance of each individual key factor for quality at certain phases of the project.

ČASOPISI

- 1 UNDERSTANDING THE KEY QUALITY FACTORS IN CONSTRUCTION PROJECTS—A SYSTEMATIC LITERATURE REVIEW**, *Sustainability*, 2020, 12(24):10376, Sławomir Wawak, Žaneta Ljevo, Mladen Vukomanović, <https://doi.org/10.3390/su122410376> - naučni rad

Abstract: Project management frameworks describe the preferred approaches to project quality management, as well as applicable methods and tools. Despite this, quality problems in the construction project are still widespread. This study aimed to identify crucial quality-related factors in construction project management and find relations between them, to help researchers and project managers better respond to quality issues. A systematic literature review (SLR) was used to identify previous studies on quality-related factors. Literature review and further quantitative analysis revealed that quality-related factors are related to three categories. Their inclusion at the planning stage should help project managers, sponsors, and steering committees avoid or minimise quality-related problems. Moreover, this study sheds an interesting light on quality. We found that the quality of processes and quality of an organisation has precedence over the final product quality. Based on the results of the study, structural equation modelling (SEM) was used to create a null model that will be the starting point for further research in the construction enterprises.

- 2 ANALYSIS OF THE TEMPERATURE BEHAVIOR OF THE ASPHALT SAMPLE BY HEATING WITH UV LAMPS AND THE FINITE ELEMENT METHOD**, *Journal of Road and Traffic Engineering*, 2019., 65(1), 13-17. Mirza Pozder, Sanjin Albinović, Ammar Šarić, Suada Džebo, Žaneta Ljevo, <https://doi.org/10.31075/PIS.65.01.02> - naučni rad
Sažetak: Cilj rada je istraživanje nove metode mjerenja temperaturnih varijacija asfaltnog uzorka iz kolovozne konstrukcije u laboratorijskim uslovima. Metoda je bazirana na

zagrijavanju uzoraka asfaltnih slojeva korištenjem infracrvenih lampi za zagrijavanje. Na osnovu podataka dobijenih iz eksperimenta, metodom konačnih elemenata je analizirana temperaturna provodljivost uzorka.

3. Objavljene knjige

- 1 UPRAVLJANJE PROJEKTOM – DRUGO IZDANJE / knjiga , PRIMAPROM Banja Luka, ISBN 978-99976-29-13-5, 2018. Slobodan Lukić, Drago Zečević, Slaviša Lukić, Žaneta Ljevo**

4. Učešće u projektima

Kandidatkinja učestvuje u realizaciji međunarodnog ERASMUS+ projekta "Ready, Active, Digital Project Code: 2020-1-DK01-KA226-VET-094178" kao član tima ispred organizacije CEUP (Centar za edukaciju upravljanja projektom) Livno (mart 2021. - juni 2023.), <https://react-digital.eu/>

5. Učešće u naučnim i stručnim skupovima

Kandidatkinja je učestvovala kao organizator ili sudionik na više naučnih i stručnih skupova (SENET- 2018, BIM forum - 2018, Project Menagement Academy – 2019, IAT -2018., 2019., 2021., 2022., CETRA – 2018., 2020. i 2022.).

6. Pokazani rezultati u nastavnom radu

Nastavno-pedagoški rad, kandidatkinja dr.sc. Žaneta Ljevo, dipl.ing.građ. započela je 2005. godine na Građevinskom fakultetu Univerziteta u Sarajevu gdje je izabrana u zvanje asistenta, a zatim 2012. u zvanje višeg asistenta na užu naučnu oblast "Tehnologija i organizacija građenja". U toku rada na Građevinskom fakultetu u Sarajevu izvodila je vježbe iz većeg broja predmeta kako po starom tako i po novom sistemu studija i to: Organizacija i tehnologija građenja, (stari sistem studiranja), Tehnologija građenja (novi sistem studiranja), Organizacija građenja (novi sistem studiranja), Stručna praksa (novi sistem studiranja) i Upravljanje projektima (novi sistem studiranja).

Predmeti za koje je kandidat zadužen

Nakon izbora u zvanje docenta (u kome je provela jedan izborni priod) 2018. godine na naučnu oblast "Saobraćajnice", podoblast "Tehnologija i organizacija građenja", izvodi nastavu (predavanje i vježbe) iz sljedećih predmeta:

- Ekonomija i građevinska regulativa,
- Tehnologija građenja,
- Organizacija građenja,
- Stručna praksa - terenska nastava,
- Upravljanje projektima.

Mentorstva na II. ciklusu studija

Spisak mentorstava - II ciklus studija Građevinarstva			
R.br.	Kandidat	Naziv rada	God.
1	Ahmed Kadić	BIM model objekta cestovne infrastrukture	2019.
2	Enisa Tiro	Planiranje izgradnje varijantnih rješenja saobraćajnice sa uporednom analizom	2019.
3	Merim Rožajac	Razrada modela upravljanja projektom izgradnje varijantnih rješenja objekata visokogradnje	2020.
4	Adžamija Rijad	BIM model saobraćajnih površina sportskog aerodroma „Visoko“	2020.
5	Melisa Zatega	Optimizacija troškova i vremena izgradnje saobraćajnice u fazi planiranja	2020.
6	Jasmin Čajdin	Organizacijska struktura učesnika u građevinskim projektima	2020.
7	Amar Čorbo	BIM model saobraćajnih površina sportskog aerodroma "Blidinje"	2021.
9	Emina Hidanović	Upravljanje projektom izgradnje saobraćajnice	2021.
10	Ena Rizvić	Razrada modela upravljanja projektom izgradnje varijantnih rješenja objekta niskogradnje	2021.
11	Emira Čorović	Istraživanje uticaja primjene različitih resursa na troškove izgradnje saobraćajnice u ranoj fazi projekta	2021.
12	Samra Fatušić	Upravljanje projektom izgradnje objekta viskogradnje	2021.
13	Amna Mahmutović	BIM model saobraćajnih površina sportskog aerodroma „MEDENO POLJE“	2022.
14	Selma Omerčević	Analiza ugovora na objektima saobraćajne infrastrukture	2022.

7. Ostale naučne i stručne aktivnosti

Učešće na izradama studija, projekata, učešće u organizaciji kongresa i drugo (nakon posljednjeg izbora):

- Elaborat o saobraćajnim uvjetima i procjeni nosivosti mostova za prevoz vangabaritnog tereta ukupne mase do 162 tone na magistralnoj cesti M17.0, od granice sa republikom Hrvatskom (granični prijelaz Doljani) do Ivan sedla u Bosni i Hercegovini, knjiga 1 / book 1 Infra d.o.o. Sarajevo, juli 2022. / investitor: Zagrebtrans d.o.o.
- Vještačenje u predmetu broj 65 0 V827404. 20 V, Građevinski fakultet Univerziteta u Sarajevu, 2020.
- Učešće u organizaciji međunarodnih kongresa i skupova SENET-2018, IAT 2019.
- Učešće u organizaciji domaćih kongresa i skupova BIM forum 2018., Project Management Academy 2018.
- Član Radne grupe za izradu cjelovitog Plana integriteta UNSA.
- U periodu oktobar 2018. – oktobar 2022. obavljala je funkciju rukovodioca Odsjeka za saobraćajnice Građevinskog fakulteta u Sarajevu.
- Od oktobra 2018. je predsjednica Odbora za osiguranje kvaliteta Univerziteta u Sarajevu - Građevinski fakultet.

U skladu sa gore navedenim Komisija u svom sastavu donosi slijedeći:

ZAKLJUČAK I PRIJEDLOG

Uzevši u obzir cjelokupnu aktivnost kandidata, može se utvrditi da doc.dr.sc. Žanesa Ljevo, dipl.ing.građ. **ispunjava** sve formalne i suštinske uslove za izbor u naučnonastavno zvanje **vanredni profesor** za naučnu oblast "Saobraćajnice", podoblast "Tehnologija i organizacija građenja" na Univerzitetu u Sarajevu – Građevinski fakultet, utvrđene Zakonom o visokom obrazovanju ("Službene novine Kantona Sarajevo", broj:33/17, 35/20, 40/20 i 39/21) kao i odredbama Statuta Univerziteta u Sarajevu (Broj: 01-1093-3-1/18 od 28.11.2018. godine).

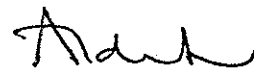
Na osnovu svega iznesenog Komisija predlaže Vijeću Univerziteta u Sarajevu – Građevinski fakultet, da se doc.dr.sc. **Žanesa Ljevo**, dipl.ing.građ. izabere u naučnonastavno zvanje **vanredni profesor** za naučnu oblast "**Saobraćajnice**", podoblast "**Tehnologija i organizacija građenja**" na Univerzitetu u Sarajevu – Građevinski fakultet.

Sarajevo, 06.02.2023.

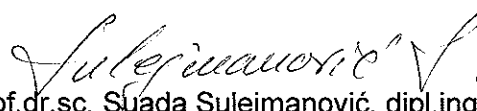
ČLANOVI KOMISIJE:



Red.prof.dr.sc. Mladen Vukomanović, dipl.ing.građ.



Red.prof.dr.sc. Zlata Dolaček-Alduk, dipl.ing.građ.



Van.prof.dr.sc. Suada Sulejmanović, dipl.ing.građ.