

OPŠTI PODACI

ALMA ŽIGA



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Adresa stanovanja: Ozrakovići 31., 71300 Visoko

Spol Ženski | Datum rođenja 4/9/1973 | Državljanstvo Bosna i Hercegovina

RADNO MJESTO

V. profesor na Katedri za mehanike
Mašinski fakultet, Univerzitet u Zenici

RADNO ISKUSTVO

Maj 2021- Vanredni profesor

Mašinski fakultet, Univerzitet u Zenici

- Izvođenje predavanja i vježbi na predmetima: Otpornost materijala I, Otpornost materijala II, Mehanika I, Mehanika kompozitnih materijala

Juni 2016 - Maj 2021 Docent

Mašinski fakultet, Univerzitet u Zenici

- Izvođenje predavanja i vježbi na predmetima: Otpornost materijala I, Otpornost materijala II

April 2011- Juni 2016 Viši asistent

Politehnički fakultet, Univerzitet u Zenici

- Izvođenje vježbi na predmetima: Mehanika I, Otpornost materijala I, Otpornost materijala II

2007- Juni 2016- Viši asistent

Mašinski fakultet, Univerzitet u Zenici

- Izvođenje vježbi na predmetima: Statika, Otpornost materijala I, Otpornost materijala II, Kinematika, Tehnička mehanika I

Mart 2011- Istraživač saradnik

Institut za mašinstvo, Mašinski fakulteta, Univerzitet u Zenici

- Istraživač saradnik za naučnu oblast "Mehanike"

2001-2007 Asistent

Mašinski fakultet, Univerzitet u Zenici

- Izvođenje vježbi na predmetima: Statika, Otpornost materijala, Kinematika, Tehnička mehanika I, Tehnička mehanika II

1999-2001 Inženjer tehnolog

"UNIS Kovina" Visoko

- Izrada čeličnih konstrukcija, zimske opreme, rezervoara, nadgradnji na vozila, komunalne opreme

OBRAZOVANJE

Februar 2016 Doktor tehničkih nauka

Mašinski fakultet, Univerzitet u Zenici

Naslov disertacije 'Uticaj kontaktnih, promjenljivih naprezanja na izdržljivost nosećih valjaka od čeličnog liva na rotacionim pećima'

- Juni 2006 **Magistar tehničkih nauka**
Mašinski fakultet, Univerzitet u Zenici
Naslov rada 'Dizajn stopala natkoljenične proteze sa ugrađenim hidrauličkim pokretačima u članku i koljenu'
- Juli 1999 **Diplomirani inženjer mašinstva**
Naslov rada Proračun parametara centrifugalne pumpe koristeći programski jezik Fortran i njegovo povezivanje sa AutoCADom

OBJAVLJENI RADOVI

- 2023** Kačmarčik, J., **Žiga, A.**, Hadžalić M., Radojičić S. (2023) DESIGN OF THE GRIP AND THE SPECIMEN FOR TENSILE TESTING OF 3D PRINTED MATERIALS, 13th Research/Expert Conference with International Participations "QUALITY 2023", Neum, B&H, June 19 –21, 2023, (Proceedings indeksiran u Index Copernicus).
- 2023** **Žiga, A.**, & Kačmarčik, J. (2023). IMPROVING STUDENT ENGAGEMENT IN STATICS CLASSES USING SIMPLE MODELS, 13th Research/Expert Conference with International Participations "QUALITY 2023", Neum, B&H, June 19 –21, 2023, (Proceedings indeksiran u Index Copernicus).
- 2023** Mehmed Čobo, **Alma Žiga**, Malik Čabaravdić (2023), CONSTRUCTION OF AN AUTOMATED DOOR AS A SMART DEVICE, 9th International Conference "New Technologies NT-2023", NT-2023 proceedings will be published in Springer series "Lecture Notes in Networks and Systems" and submitted for consideration to Web of Science, SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH and SCImago.
- 2023** **Alma Žiga**, Josip Kačmarčik, Ismir Behadarević (2023), 3D PRINTED SOUVENIR WITH MECHANICAL IRIS, 9th International Conference "New Technologies NT-2023", NT-2023 proceedings will be published in Springer series "Lecture Notes in Networks and Systems" and submitted for consideration to Web of Science, SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH and SCImago.
- 2023** **Žiga, A.**, & Kačmarčik, J. (2023). Plywood Cantilever Deflection: Experimental, Analytical and FEM Approach. Drvna industrija, 74(1), 81-91. Časopis indeksiran u Web of Science Core Collection (Science Citation Index Expanded), Scopus, CAB Abstracts, Compendex, Environment Index, Veterinary, Science Database, GeoBase, DOAJ, Sherpa Romeo.
- 2021** **A. Žiga**, B. Hinović (2021). Interactive mechanical donation box, *Proceedings of the 7th International Conference „NEW TECHNOLOGIES, DEVELOPMENT AND APPLICATION“ NT-2021*, Sarajevo, Bosnia and Herzegovina, NT-2021 proceedings was published in Springer series "Lecture Notes in Networks and Systems" and submitted for consideration to Web of Science, SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH and SCImago.
- 2021** **A. Žiga**, D. Begić-Hajdarević (2021). Rolling ball sculpture as a mechanical design challenge, *Proceedings of the 7th International Conference „NEW TECHNOLOGIES, DEVELOPMENT AND APPLICATION“ NT-2021*, Sarajevo, Bosnia and Herzegovina, NT-2021 proceedings was published in Springer series "Lecture Notes in Networks and Systems" and submitted for consideration to Web of Science, SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH and SCImago.
- 2019** Vukojević, N. Kačmarčik, J., **Žiga, A.** , Babić, N., Tanasićević, N.(2019). Design of stiffeners for industrial piping under external pressure using FEM. *Proceedings of the 14th International Conference on Accomplishments in Mechanical and Industrial Engineering, DEMI 2019*. ISBN: 978-99938-39-73-6, University of Banja Luka, Faculty of Mechanical Engineering (Međunarodna konferencija s recenzijom).
- 2019** **Žiga, A.**, Baraćija A., Čobo M. (2019). Stepeni model regresije: određivanje koeficijenata modela. *Proceedings of the 13th International Conference with international participation, Quality 2019*. ISSN 1512-9268. (Proceedings indeksiran u Index Copernicus).
- 2018** **Žiga, A.**, Begić-Hajdarević, Đ., Cogo, Z. (2018). Mechanical toys and souvenirs obtained by CO₂ laser cutting of plywood. *Proceedings of the 13th International Scientific Conference MMA 2018-FLEXIBLE TECHNOLOGIES*, Novi Sad, Serbia. ISBN 978-86-6022-094-5; COBISS.SR-ID 325441799 (Međunarodna konferencija s recenzijom).

- 2018** Žiga, A., Kačmarčík, J. (2018). Stress state in rotary kiln support rollers, Naponsko stanje u nosećim valjcima rotacione peći. *Mašinstvo* 1(14), 3 – 10. ISSN 1512-5173. (Proceedings indeksiran u Index Copernicus).
- 2018** Žiga, A., Alajbegović, H. (2018). E-učenje s powerpoint prezentacijom: modeliranje kviz pitanja, E-learning with powerpoint: designing quiz questions. *Mašinstvo* 2(15), 107 – 115. ISSN 1512-5173 (Časopis indeksiran u Index Copernicus)
- 2018** Žiga, A., Cogo, Z., Kačmarčík, J. (2018). Out-of-plane deflection of J-shaped beam. *Proceedings of the 21th International Research/Expert Conference, TMT 2018.* pp.269-272. ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2017** Žiga, A., Alajbegović, H. (2017) Interaktivna powerpoint prezentacija, *Proceedings of the 10th International Conference with international participation, Quality 2017.* ISSN 1512-9268. (Proceedings indeksiran u Index Copernicus).
- 2017** Hadžalić M., Kačmarčík J., Žiga A. (2017). Optimization of mine hoist rope attachment assembly using fem analysis. *Proceedings of the 13th International Conference on Accomplishments in Mechanical and Industrial Engineering, DEMI 2017.* ISBN: 978-99938-39-73-6, University of Banja Luka, Faculty of Mechanical Engineering (Međunarodna konferencija s recenzijom).
- 2013** Žiga, A., Karač, A., Vukojević, D. (2013). Analytical and numerical stress analysis of the rotary kiln ring. *Tehnički vjesnik/Technical Gazette* (Print: ISSN 1330-3651, Online: ISSN 1848-6339), 20(6), 941-946. (Časopis indeksiran u Science Citation Index Expanded, Scopus, Aerospace Database, Civil Engineering Abstracts, Compendex, INSPEC, Metadex, Communication Abstracts, DOAJ).
- 2009** Dedić, R., Badžak, I., Žiga, A. (2009). One possibility of getting up from a chair by modified above – knee prosthesis. *Proceedings of the 13th International Research/Expert Conference, TMT 2009.* ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2009** Žiga, A., Hadžikadunić, F., Vukojević, N. (2009). Theoretical and experimental research on stresses of a kiln ring. *Proceedings of the 13th International Research/Expert Conference, TMT 2009.* ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2008** Žiga, A., Karač, A., Vukojević, D. (2008). The contact stresses between cement kiln tyre and supporting rollers. *Proceedings of the 12th International Research/Expert Conference, TMT 2008.* ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2007** Žiga, A., Dedić R. (2007). Tools for numerical analysis: motion-analysis and fea shown on the above-knee prosthesis. *Proceedings of the 11th International Research/Expert Conference, TMT 2007.* ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2006** Dedić R., Vučina, A., Žiga, A. (2006). An experimental study of the kinematics of a modified above-knee prosthesis. *Proceedings of the 10th International Research/Expert Conference, TMT 2006.* ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2005** Dedić, R., Vučina, A., Huđec, M., Milčić, D., Žiga, A. (2005). Experimental investigation of the kinematics of above-knee prosthesis with hydraulic cylinders built in the knee and the ankle. *Proceedings of the 9th International Research/Expert Conference, TMT 2005.* ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2005** Zaimović-Uzunović, N., Žiga, A. (2005): 3D model of prosthetic foot with hydraulic cylinder. *Proceedings of the 9th International Research/Expert Conference, TMT 2005.* ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2003** Žiga, A. (2003). Bolji kvalitet nastave iz Otpornosti materijala primjenom edukacijskog softvera MDSolids 2.5. *Proceedings of the 1th International Conference with international participation, Quality 2003.* ISSN 1512-9268. (Proceedings indeksiran u Index Copernicus).

- 2002** Ekinović, S., Begović, E., **Žiga, A.** (2002). Investigation of factors influencing the surface quality during high-speed turn-milling of brass. *Proceedings of the 6th International Research/Expert Conference, TMT 2002*. ISSN 1840-4944 (Proceedings indeksiran u EBSCOhost, Goap, Road, Google scholar).
- 2002** Ekinović S., **Žiga, A.**, Begović E. (2002). Experimental – Mathematical Modeling of Beam Deflection, ISSN 1392 – 1207. *MECHAN/KA*. Nr. 4(36) (Časopis indeksiran u Science Citation Index Expanded).
- 1998** **A. Žiga** (1998). "Strain Gauges", shapes, bridges and their purposes. *Međunarodna studentska konferencija*.

KNJIGE

- 2020** Alma Žiga, Josip Kačmarčik, *Otpornost materijala I* [Elektronski izvor], Mašinski fakultet, Univerzitet u Zenici, 2020. (CIP – Katalogizacija u publikaciji, Nacionalna i univerzitetska biblioteka Bosne i Hercegovine, Sarajevo, 620.1(075.8), ISBN 978-9958-617-54-6, COBISS.BH-ID 41921286)
- 2007** Zaimović-Uzunović, N., Vukovjević, D., Hodžić, N., Žiga, A., *Statika*, Mašinski fakultet, Univerzitet u Zenici, 2007. (CIP – Katalogizacija u publikaciji, Nacionalna i univerzitetska biblioteka Bosne i Hercegovine, Sarajevo, 531.2(075.8), ISBN 978-9958-617-37-9, COBISS.BH-ID 16181254)

PROJEKTI

- 2023-2024** Mehaničke igračke; šifra projekta: MF_EN_IR_110/23; projekat finansiran od FMONa
- 2020-2021** Interaktivna donacijska kutija; šifra projekta: MF_EN_IR_63/2021
- 2018-2020** Dizajn, simulacija i izrada mehaničkih modela od šperploče; šifra projekta: MF_IN_IR_06/2020
- 2019-2020** Primjena printanih 3D modela u procesu livenja rezervih dijelova za industriju; MF_IN_IR_05/2019
- 2001-2003** Uvođenje sistema kvalitet ISO 9001:2000 na Mašinski fakultet u Zenici
- 2001** Analiza mogućnosti povećanja nosivosti mostne dizalice sa 250/50 kN na 300/50 kN u Čeličani 1 "BH Steel Željezara" Zenica"
- 2001** Preliminarna istraživanja naponsko-deformacionog stanja dijela kotla br. 7 u Termoelektrani "Kakanj"

RECENZIJE

- septembar 2018** Journal of Testing and Evaluation
Časopis indeksiran u: Web of Science, SCImago Jurnal Rank, Scopus,...
- decembar 2018** Journal of Testing and Evaluation
Časopis indeksiran u: Web of Science, SCImago Jurnal Rank, Scopus,...