

Prof. dr. Mustafa Hrasnica, dipl.ing.građ.
Odsjek za konstrukcije
Univerzitet u Sarajevu – Građevinski fakultet
Patriotske lige 30
71000 Sarajevo

Broj: 02-1-2254/18
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Vijeću Građevinskog fakulteta Univerziteta u Sarajevu

Izveštaj o rezultatima i aktivnostima nakon izbora u zvanje redovnog profesora

U skladu sa članom 134. Zakona o visokom obrazovanju Kantona Sarajevo i sa članom 229. Statuta Univerziteta u Sarajevu Vijeću Građevinskog fakulteta dostavljam Izveštaj o rezultatima i aktivnostima nakon izbora u zvanje redovnog profesora za naučnu oblast Konstrukcije.

1. Nastavni rad

Izvođenje nastave iz predmeta:

I ciklus: Otpornost materijala I, Otpornost materijala II, Zidane konstrukcije

II ciklus: Dinamika konstrukcija, Aseizmičko građenje

III ciklus (doktorski studij): Dinamika konstrukcija, Zemljotresno/potresno inženjerstvo

2. Imenovanja na Građevinskom fakultetu nakon izbora za redovnog profesora:

Dekan Fakulteta (2010.-2014. i 2014.-2018. godine)

Predsjednik Vijeća dokorskog studija (2019-)

3. Mentorstva:

Doktorati:

- Zlatko Džanić, "Optimizacija armiranobetonskih konstrukcija izloženih utjecaju potresa", Građevinski fakultet Univerziteta u Sarajevu, 2021.

- Senad Medić, "Eksperimentalna i numerička analiza zidova od pune opeke izloženih utjecaju potresa", Građevinski fakultet Univerziteta u Sarajevu, 2018.

- Đani Rahimić, "Seizmička analiza oslonaca historijskih mostova", Građevinski fakultet Univerziteta Džemal Bijedić u Mostaru, 2015.
- Naida Ademović, "Ponašanje zidanih konstrukcija u BiH pri dejstvu zemljotresa sa stanovišta savremenih teoretskih i eksperimentalnih saznanja", Građevinski fakultet Univerziteta u Sarajevu, 2012, komentorstvo sa Prof. dr. Muhamedom Zlatarom.
- Kao i 4 članstva u Komisijama za odbranu doktorskih radova kandidata: Goran Simonović, Ismar Imamović, Naser Morina, Samir Suljević.

Magistarski radovi:

- 2025 Selma Huseinović „Analiza betonskog mosta Marjanovića draga izvedenog tehnologijom slobodne konzolne izgradnje“, Građevinski fakultet Univerziteta u Sarajevu
- 2025 Vedad Golubić „Seizmička analiza postojeće visoke zgrade sa armiranobetonskim zidovima“, Građevinski fakultet Univerziteta u Sarajevu
- 2024 Nedim Šoljić „Analiza integralnog betonskog nadvožnjaka na koridoru 8 u Sjevernoj Makedoniji“, Građevinski fakultet Univerziteta u Sarajevu
- 2024 Selma Fuško „Ekscentricitet u seizmičkoj analizi nosivih konstrukcija prema Eurocode8“, Građevinski fakultet Univerziteta u Sarajevu
- 2024 Muhamed Ali Njegović „Analiza podzemnih konstrukcija na djelovanje potresa“, Građevinski fakultet Univerziteta u Sarajevu
- 2022 Suad Kubat „Dinamička analiza visokog armiranobetonskog dimnjaka“, Građevinski fakultet Univerziteta u Sarajevu
- 2021 Asim Avdić „Analiza armiranobetonske poslovne zgrade na seizmička djelovanja“, Građevinski fakultet Univerziteta u Sarajevu
- 2020 Dragana Skoko "Numerička integracija dinamičkih jednažbi ravnoteže", Građevinski fakultet Univerziteta u Sarajevu
- 2020 Esad Kurbegović „Dinamička analiza vibracija pješačkog mosta Ars Aevi u Sarajevu“, Građevinski fakultet Univerziteta u Sarajevu
- 2019 Nejra Marušić "Analiza vibracija međuspratnih konstrukcija izazvanih ljudskim djelovanjem", Građevinski fakultet Univerziteta u Sarajevu
- 2019 Hamza Proho "Eksperimentalno ispitivanje i numeričko modeliranje zidova od opeke izloženih naponima pritiska", Građevinski fakultet Univerziteta u Sarajevu
- 2019 Emir Hodžić "Modeliranje vitkih armiranobetonskih zidova za ciklična statička opterećenja", Građevinski fakultet Univerziteta u Sarajevu

- 2019 Almir Galijašević „Seizmička analiza višekratne armiranobetonske zgrade“, Građevinski fakultet Univerziteta u Sarajevu
- 2018 Damir Kalender “Usporedba različitih metoda seizmičkih analiza zgrada”, Građevinski fakultet Univerziteta u Sarajevu
- 2018 Samir Suljević „Proračun elemenata nosive konstrukcije na djelovanje požara“, Građevinski fakultet Univerziteta u Sarajevu
- 2017 Nadžija Turbo „Nelinearna statička i dinamička analiza postojeće zidane zgrade“, Građevinski fakultet Univerziteta u Sarajevu
- 2017 Amel Krvavac „Modeli vitkog armiranobetonskog zida za nelinearni proračun“, Građevinski fakultet Univerziteta u Sarajevu
- 2016 Edina Viković “Modeliranje armiranobetonskih nosivih elemenata izloženih dinamičkom opterećenju” Građevinski fakultet Univerziteta u Sarajevu
- 2015 Azalea Abaspahić „Razvoj modela za nelinearni statički proračun zidanih konstrukcija“, Građevinski fakultet Univerziteta u Sarajevu
- 2015 Alen Zečirević „Seizmička analiza visokog vijadukta“, Građevinski fakultet Univerziteta u Sarajevu
- 2014 Mirza Proho " Nelinearna seizmička analiza nesimetričnih višekratnih zgrada sa armiranobetonskim zidovima", Građevinski fakultet Univerziteta u Sarajevu
- 2014 Amra Drkić "Nelinearna seizmička analiza nesimetričnih višekratnih zgrada sa armiranobetonskim okvirima", Građevinski fakultet Univerziteta u Sarajevu
- 2014 Adi Nefić “Modeliranje armiranobetonskih zidova za nelinearni seizmički proračun”, Građevinski fakultet Univerziteta u Sarajevu
- 2013 Ivica Miletić “Seizmička analiza postojeće visoke zgrade sa nosivim sistemom od slabo armiranih betonskih zidova“, Građevinski fakultet Univerziteta u Sarajevu
- 2012 Nađa Nefić “Seizmički odgovor AB konstrukcija sa ispunom od opeke” Građevinski fakultet Univerziteta u Sarajevu
- 2012 Đana Marić “Seizmička analiza lučnog kamenog mosta i osjetljivost ovog tipa konstrukcija” Građevinski fakultet Univerziteta u Sarajevu

Napomena: Nisu u obzir uzeti doktorski i magistarski radovi koji nisu završeni (odbranjeni).

4. Naučnoistraživački rad (objavljeni radovi)

Knjige:

Hrasnica M. „Aseizmičko građenje“ Građevinski fakultet Univerziteta u Sarajevu II izdanje 2025.

Hrasnica M., glavni urednik monografija „70 godina Građevinskog fakulteta Univerziteta u Sarajevu“, Izdavač Građevinski fakultet, 2020.

Editors: Adnan Ibrahimbegović, Samir Dolarević, Ejub Džaferović, Mustafa Hrasnica, Izet Bjelonja, Muhamed Zlatar and Kemal Hanjalić, Proceedings 4th International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS MSF 2019 Thematic conference, Sept. 18-20, 2019 Sarajevo Bosnia and Herzegovina, ISBN 978-9958-638-57-2

Hrasnica M. et al. “Priručnik za Eurokodove“ Institut za standardizaciju Bosne i Hercegovine, BAS, i Češka agencija za standarde, mjeriteljstvo i ispitivanje UNMZ Praha, Sarajevo 2018, ISBN 978-9958-530-03-6

Editors: Adnan Ibrahimbegović, J.-M. Ghidaglia, Amra Serdarević, Emil Ilić-Georgijević, Mustafa Hrasnica, Samir Dolarević, Naida Ademović, Proceedings 2nd International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS Thematic conference 10-12.06.2015, ISBN

Članci:

M. Hrasnica, S. Medić, (2025) Seismic assessment of typical medieval stone masonry buildings in West Balkan, Proceedings of SAHC 2025: International Conference on Structural Analysis of Historical Constructions, 15-17.09.2025. Lausanne Switzerland.

Simonović, G., Medić, S., Hrasnica, M., Zlatar, M. (2025) Problem of ovalization of a cylindrical shell, 21st International Symposium MASE: „Structural engineering - Limitless“, 24-27 September 2025, Ohrid, N. Macedonia

Simonović, G., Medić, S., Hrasnica, M., Medić, J. (2025) Structural testing of a cylindrical shell, 21st International Symposium MASE: „Structural engineering - Limitless“, 24-27 September 2025, Ohrid, N. Macedonia

Simonovic G., Hrasnica M., Medic S., Structural Testing of the Administrative Building, International conference on Development and Modernization of Manufacturing (RIM), Bihać, Bosna i Hercegovina, 2025.

Hrasnica. M, Karavelić-Hadžimejlić, A., Medić, S., Medić, J. (2025) Seismic evaluation of the high-rise residential building with structural walls from the late 60's. In: Atalić, J. et al. (Eds.): Proceedings of the 3rd Croatian Conference on Earthquake Engineering – 3CROCEE, Split, Croatia – March 19 – 22, 2025, doi: <https://doi.org/10.5592/CO/3CroCEE.2025.107>

Simonović G., Medić S., Hrasnica M., Masonry wall-RC slab interaction under seismic loading, In: Atalić, J. et al. (Eds.): Proceedings of the 3rd Croatian Conference on Earthquake Engineering–3CROCEE, Split, Croatia March 19–22, 2025, doi: <https://doi.org/10.5592/CO/3CroCEE.2025.122>

Hrasnica, M., Karavelić-Hadžimejlić, A., Medić, S., Simonović, G. (2025) Seismic performance of existing high-rise building with R.C. walls, ECCOMAS MSF 2025 Proceedings/ 7th International Conference on Multi-scale Computational Methods for Solids and Fluids, Split, June 25 – 27, 2025, Eds. Ibrahimbegović A., Nikolić, M., ACMBH-Association of Computational Mechanics in Bosnia and Herzegovina, ISBN 978-9926-8888-2-4.

Medić, S., Omerović, K., Hrasnica, M., Uroš, M. (2024) Nonlinear static and dynamic analysis of a typical pre-code URM building in Zagreb, 18th World Conference on Earthquake Engineering, 30.06.-05.07.2024. Milano, Italy

Karavelić A., Hadzic H., Jahic E., Simonovic G., Hrasnica M., Medić S., Ambient vibration investigation of the suspension bridge over Jablanica lake, The 18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, 2024

Medić, S., Hrasnica, M. (2023) Numerical modeling of the in-plane behaviour of experimentally tested solid brick masonry walls. In: Atalić, J. et al. (Eds.): Proceedings of the 2nd Croatian Conference on Earthquake Engineering – 2CROCEE, Zagreb, Croatia – March 22 – 24, 2023, doi: <https://doi.org/10.5592/CO/2CroCEE.2023.102>

Simonović, G., Hrasnica, M., Medić, S. (2023) Engineering model for analysis of masonry structures. In: Atalić, J. et al. (Eds.): Proceedings of the 2nd Croatian Conference on Earthquake Engineering – 2CROCEE, Zagreb, Croatia – March 22 – 24, 2023, doi: <https://doi.org/10.5592/CO/2CroCEE.2023.114>

Selimović, E., Hadžić, H., Simonović, G., Churilov, S., Hrasnica, M., Medić, S. (2023) Ambient vibration measurement of the Institute for Materials and Structures building in Sarajevo. In: Atalić, J. et al. (Eds.): Proceedings of the 2nd Croatian Conference on Earthquake Engineering – 2CROCEE, Zagreb, Croatia – March 22 – 24, 2023, doi: <https://doi.org/10.5592/CO/2CroCEE.2023.101>

Medić, S., Simonović, G., Hrasnica, M., Churilov, S., Hadžić, H., Selimović, E. (2023) Experimental testing of an integral bridge, ECCOMAS MSF 2023 Proceedings/ 6th International Conference on Multi-scale Computational Methods for Solids and Fluids, Sarajevo, June 25 – 27, 2023, Eds. Ibrahimbegović A., Dolarević, S., Cohodar-Husic, M., Faculty of Civil Engineering, University of Sarajevo 2023 ISBN 978-9958-638-73-2, COBIS.BH-ID 55173638

Medić, S., Hadžić, H., Selimović, E., Churilov, S., Simonović, G., Hrasnica, M. (2022) Experimental testing of a bridge in Kraljeva Sutjeska, 19th International Symposium MASE: „Eurocodes – Gates to Europe“, 27-30 April 2022, Ohrid, N. Macedonia

Hodžić, E., Medić, S., Hrasnica, M. (2022) Seismic Response of R.C. Walls – Experimental Results versus Numerical Analysis, Proceedings of the Third European Conference on Earthquake Engineering and Seismology - 3ECEEES : September 5-September 9, 2022, Bucharest, Romania / editors: Cristian Arion, Alexandra Scupin, Alexandru Țigănescu. - București : Conspress, 2022

Medić, S.; Hrasnica, M.: In-Plane Seismic Response of Unreinforced and Jacketed Masonry Walls. *Buildings* **2021**, *11*, 472. <https://doi.org/10.3390/buildings11100472>

Džanić, Z., Hrasnica, M., Medić, S. (2021) Optimization of irregular structures under seismic loading, ECCOMAS MSF 2021 Proceedings/ 5th International Conference on Multi-scale Computational Methods for Solids and Fluids, Split, June 30 – July 2, 2021, Eds. Ibrahimbegović A., Nikolić, M., Faculty of Civil Engineering, University of Sarajevo 2021 ISBN 978-9958-638-66-4, COBIS.BH-ID 44416262, http://gf.unsa.ba/eccomas-msf-2021/Eccomas_MSF_2021.pdf

Hrasnica, M., Medić, S. (2021). Seismic response of unreinforced masonry buildings from 1950's. Proceedings of the 1st Croatian Conference on Earthquake Engineering - 1CroCEE, 22 - 24 March 2021, Zagreb, Croatia. Eds. Lakušić, S., Atalić, J. University of Zagreb, Faculty of Civil Engineering, Zagreb, Croatia. <https://doi.org/10.5592/CO/1CroCEE.2021.137>

Hodžić, E., Medić, S., Hrasnica, M. (2021). Experimental versus numerical response of RC walls subjected to earthquake loading. Proceedings of the 1st Croatian Conference on Earthquake Engineering - 1CroCEE, 22 - 24 March 2021, Zagreb, Croatia. Eds. Lakušić, S., Atalić, J. University of Zagreb, Faculty of Civil Engineering, Zagreb, Croatia. <https://doi.org/10.5592/CO/1CroCEE.2021.106>

Džanić, Z., Hrasnica M., Medić, S. (2021). Optimization of the reinforced concrete structural systems under seismic load. Proceedings of the 1st Croatian Conference on Earthquake Engineering - 1CroCEE, 22 - 24 March 2021, Zagreb, Croatia. Eds. Lakušić, S., Atalić, J. University of Zagreb, Faculty of Civil Engineering, Zagreb, Croatia. <https://doi.org/10.5592/CO/1CroCEE.2021.102>

Hrasnica M., Medić S.: Structural versus Aesthetical Concerns in Reconstruction of Historical Masonry Buildings, IABSE Symposium Wrocław 2020 Synergy of Culture and Civil Engineering – History and Challenges, Editors J.Bień, J. Biliszczyk, P. Hawryszków, M. Hildebrand, M. Knawa-Hawryszków, K. Sadowski, Wrocław, Poland October 7-9, 2020. ISBN:978-3-85748-169-7, <https://www.scopus.com/record/display.uri?eid=2-s2.0-85103470358&origin=inward&txGid=8225d07305094a1631b91a490b1ddeb1&featureToggle=s=FEATURE VIEW PDF:1,FEATURE DOC DETAILS TOOLBAR:1>

Suljević S., Medić S., Hrasnica M.: Thermo-mechanical analysis of reinforced concrete slab using different fire models, Coupled Systems Mechanics, Vol. 9, No. 2 (2020) DOI: <https://doi.org/10.12989/csm.2020.9.2.000>

Džanić Z., Hrasnica M., Medić S., Biberkić F. (2020) Optimized behaviour of vertically irregular frames under seismic load. 7th international conference „Civil engineering – science and practise“, GNP 2020 Proceedings – Book of Abstracts, van BIH. University of Montenegro, Faculty of Civil Engineering, Podgorica, Montenegro. Kolašin, Montenegro, 10-14 March 2020, ISBN 978-86-82707-32-5, COBISS.CG-ID 40381456

Džanić Z., Hrasnica M., Medić S., Biberkić F. (2020) Seismic performance of large lightly reinforced walls. 7th international conference „Civil engineering – science and practise“, GNP 2020 Proceedings – Book of Abstracts. University of Montenegro, Faculty of Civil Engineering, Podgorica, Montenegro. Kolašin, Montenegro, 10-14 March 2020, ISBN 978-86-82707-32-5, COBISS.CG-ID 40381456

Suljević S., Medić S., Hrasnica M. (2020) Behavior of Concrete Structures Under the Action of Elevated Temperatures. In: Avdaković S., Mujčić A., Mujezinović A., Uzunović T., Volić I. (eds) 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. Springer, Cham, https://doi.org/10.1007/978-3-030-24986-1_20

Hrasnica M., Džanić Z., Medić S.: Nonlinear Pushover and Time History Analysis of Reinforced Concrete Wall, Proceedings 4th International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS MSF 2019 Thematic conference, Sept. 18-20, 2019 Sarajevo Bosnia and Herzegovina, ISBN 978-9958-638-57-2

Hrasnica M., Medić S., Hodžić E.: Experimental versus Numerical Response of R.C. Walls Subjected to Earthquake Loading, Proceedings 4th International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS MSF 2019 Thematic conference, Sept. 18-20, 2019 Sarajevo Bosnia and Herzegovina, ISBN 978-9958-638-57-2

Suljević S., Medić S., Hrasnica M.: Structural Analysis of Reinforced Concrete Slab under Fire Loading, Proceedings 4th International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS MSF 2019 Thematic conference, Sept. 18-20, 2019 Sarajevo Bosnia and Herzegovina, ISBN 978-9958-638-57-2

Medić S., Hrasnica M.: Finite Element Modeling of Masonry Walls, Proceedings 4th International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS MSF 2019 Thematic conference, Sept. 18-20, 2019 Sarajevo Bosnia and Herzegovina, ISBN 978-9958-638-57-2

Medić S., Živalj E., Biberkić F., Hrasnica M., Zlatar M.: Analysis of Reinforced Concrete Beam Subjected to Cyclic Loading, Proceedings 4th International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS MSF 2019 Thematic conference, Sept. 18-20, 2019 Sarajevo Bosnia and Herzegovina, ISBN 978-9958-638-57-2

Džanić Z., Hrasnica M., Medić S.: Optimal Response of Structures under Earthquake Loading, Proceedings 4th International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS MSF 2019 Thematic conference, Sept. 18-20, 2019 Sarajevo Bosnia and Herzegovina, ISBN 978-9958-638-57-2

Hajdo E., Hrasnica M.: Seismic analysis of a reinforced concrete frame building using N2 method, in Advanced Technologies, Systems and Application III, ed., Avdaković S., Springer 2019, ISBN 978-3-030-02576-2

Osmanović N., Medić S., Hrasnica M.: Seismic assessment of existing masonry building, in Advanced Technologies, Systems and Application III, ed., Avdaković S., Springer 2019, ISBN 978-3-030-02576-2

Medić, S., Živalj, E., Biberkić, F., Zlatar, M., Hrasnica, M. (2018) Experimental study on behavior of reinforced concrete beam subjected to cyclic loading, 16th European Conference on Earthquake Engineering, Thessaloniki 18-21 June, 2018, The European Association for Earthquake Engineering/Hellenic Society of Earthquake Engineering

Hrasnica, M., Biberkić, F., Medić, S. (2018) Experimental testing of solid brick masonry walls, 16th European Conference on Earthquake Engineering, Thessaloniki 18-21 June, 2018, The European Association for Earthquake Engineering/Hellenic Society of Earthquake Engineering

Hrasnica, M., Medić, S. (2018) Finite element modeling of experimentally tested solid brick masonry walls, 16th European Conference on Earthquake Engineering, Thessaloniki 18-21 June, 2018, The European Association for Earthquake Engineering/Hellenic Society of Earthquake Engineering

Hrasnica M: Seismic vulnerability, damage and strengthening evaluation of historical buildings in Bosnia and Herzegovina, in Advanced Technologies, Systems and Application II, eds. Hadžikadić M., Avdaković S., Springer 2017

Medić S., Hrasnica M.: Modeling strategies for masonry structures, in Advanced Technologies, Systems and Application II, eds. Hadžikadić M., Avdaković S.: Springer 2017

Medić S., Hrasnica M.: Modeling of masonry walls under compression and shear, ECCOMAS MSF 2017 Thematic Conference, 20 – 22 september 2017, Ljubljana, Slovenia

Hrasnica M., Biberkić F., Medić S.: In-plane behavior of plain and strengthened solid brick masonry walls, Key Engineering Materials, Vol.747, pp 694-701, Trans Tech Publications, Switzerland 2017, ISSN: 1662-9809

Hrasnica M., Biberkić F., Medić S.: In-plane behavior of plain and strengthened solid brick masonry walls, 5th International Conference about Mechanics of Masonry Structures, Bologna 2017

Pašić A., Hrasnica M., Biberkić F.: Sarajevo University Library Architectural and Structural Concept, 3rd International Conference Structures and Architecture ICSA 2016, 27-29. July, Guimaraes, Portugal

Hrasnica M., Ademović N., Biberkić F., Medić S.: Experimental In-plane Cyclic Response of Unreinforced Masonry Walls versus Strengthened Walls Using Jacketing, 16th International Brick and Block Masonry Conference, June 26-30. 2016 Padova, Italy.

Hrasnica M., Čaušević A., Rustempašić N.: Seismic Vulnerability Assessment of Masonry Building from Ottoman Period in Bosnia and Herzegovina, Book Chapter in: Handbook of Research on Seismic Assessment and Rehabilitation of Historic Structures (2 Volumes), editors: Panagiotis G.A., Plevris V., IGI-Global July 2015, ISBN 9781466682863.

Hrasnica M., Medić J.: Nonlinear Static Analysis of Slender Reinforced Concrete Wall Using SAP 2000, Proceedings 2nd International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS Thematic conference Sarajevo, 10-12.06.2015,

Hrasnica M., Ademović N., Kurtović A., Biberkić F., Medić S.: Mechanical Tests on Masonry Walls, Proceedings 2nd International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS Thematic conference Sarajevo, 10-12.06.2015,

Ademović N., Hrasnica M.: Various Strengthening Methods for an Existing Masonry Building in Bosnia and Herzegovina, Proceedings 2nd International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS Thematic conference Sarajevo, 10-12.06.2015,

Hrasnica M., Ademović N., Novak B., Kurtović A., Biberkić F., Medić S.: Cyclic Shear Tests on URM and Strengthened Masonry Walls and its Modeling, 2nd European Conference on Earthquake Engineering and Seismology, 24-29.08.2014, Istanbul, Turkey.

Ademović N., Hrasnica M.: Seismic Assessment and Strengthening of an Existing Multi-storey Masonry Building in Sarajevo Bosnia and Herzegovina, 2nd European Conference on Earthquake Engineering and Seismology, 24-29.08.2014, Istanbul, Turkey.

Čaušević A., Hrasnica M., Rustempašić N.: The vulnerability assessment of tall slender masonry structures, 9th International Masonry Conference, 7-9.07.2014, Guimarães-Porto, Portugal.

Hrasnica M., Čaušević A., Rustempašić N.: Structural assessment of stone masonry building from Ottoman period in Bosnia and Herzegovina, PROHITECH 2014 - 2nd International Conference On Protection Of Historical Constructions, 7-9 May 2014 Antalya-Turkey.

Ademović N., Hrasnica M.: Seismic evaluation of existing buildings in Bosnia and Herzegovina, International Civil Engineering & Architectute Symposium for Academicians, 17-19. May 2014, Side-Turkey.

Hrasnica M., Ademović N.: Seizmička evaluacija postojećih zgrada sa nosivim zidovima, Peti internacionalni kongres "Građevinarstvo – Nauka i Praksa, Žabljak, Crna Gora, februar 2014, ISBN 978-86-82707-21-9.

Cincar A., Hrasnica M., Džidić S., Kulenović N., Vujatović S.: Current Situation in Adoption of the Eurocodes – Country Report Bosnia and Herzegovina, Workshop Adoption of the Eurocodes in the Balkan Region, European Commission DG Joint Research Center, Milan & JRC Ispra Italy, Dec 2013, ISBN 978-92-79-35169-0

Hrasnica M.: Seismic Assessment of Medieval Masonry Buildings in West Balkan, Skopje Earthquake - 50 Years of European Earthquake Engineering, 29-31 May 2013, Skopje, Macedonia.

Hrasnica M., Ademović N.: Seismic Assessment of a Multi-storey Masonry Building, Skopje Earthquake - 50 Years of European Earthquake Engineering, 29-31 May 2013, Skopje, Macedonia.

Ademović N., Hrasnica M., Oliveira D.V.: Pushover Analysis and Damage Assessment of a Typical Masonry Residential Building in Bosnia and Herzegovina, Engineering Structures 50 (2013) 13-29, Elsevier Publisher.

Hrasnica M., Medić S.: Seismic Strengthening of Historical Stone Masonry Structures in Bosnia Herzegovina, 15th World Conference on Earthquake Engineering WCEE Lisboa 24-28.09. 2012

Hrasnica M., Medić S.: Structural Challenges of Historical Stone Masonry Buildings in Bosnia and Herzegovina, 7th International Conference on Computational Mechanics for Spatial Structures IASS-IACM 2012, Sarajevo, April 2012, ISBN 978-9958-638-30-5.

Ademović N., Hrasnica M.: Crack Pattern Pushover Analysis vs Time History Analysis of a Typical Multi-Storey Building, 7th International Conference on Computational Mechanics for Spatial Structures IASS-IACM 2012, Sarajevo, April 2012, ISBN 978-9958-638-30-5.

Ademović N., Hrasnica M., Zlatar M.: Push-over Analysis of a Typical Masonry Residential Building in Bosnia and Herzegovina, 7th International Conference on Computational

Mechanics for Spatial Structures IASS-IACM 2012, Sarajevo, April 2012, ISBN 978-9958-638-30-5.

Hrasnica M., Džanić Z.: Nelinearna push-over i time history analiza AB zida, Četvrti internacionalni kongres "Građevinarstvo – Nauka i Praksa, Žabljak, Crna Gora, februar 2012, ISBN 978-86-82707-21-9.

Imamović I., Medić J., Hrasnica M., Madžarević M.: Projekat zgrade Akademije scenskih Umjetnosti u Sarajevu, Četvrti internacionalni kongres "Građevinarstvo – Nauka i Praksa, Žabljak, Crna Gora, februar 2012, ISBN 978-86-82707-21-9.

5. Stručni rad/projekti na GFSA

Nekoliko desetina projekata na Institutu za materijale i konstrukcije (*imk*) Građevinskog fakulteta u Sarajevu: projekti konstrukcija, elaborati, stručna mišljenja, konsultantske usluge za građevinsku privredu i državne institucije.

6. Članstvo u znanstvenim i strukovnim organizacijama

DAfStb - Deutsche Ausschuß für Stahbeton, Berlin

IABSE - International Association for Bridge and Structural Engineering, Zurich

CEACM - Central European Association of Computational Mechanics

ACMBH - Association of Computational Mechanics in Bosnia and Herzegovina

Udruženje konstruktera u BiH (jedan od osnivača)

7. Pozivna predavanja

- April 2018 Građevinski fakultet Sveučilišta u Zagrebu, znanstveni projekat YODA, br. IP-2014-09-2899, Hrvatska zaklada za znanost, tema: „Seizmička otpornost nosivih sistema sa zidovima“

- Decembar 2019 Pozivno predavanje Istanbul Technical University, 12.12.2019, Historic Structures in Seismic Areas: From Research to Practice, Symposium 20 Years after the 17 August 1999 Kocaeli earthquake, tema: „Seismic Resistance of the Existing Buildings in Bosnia and Herzegovina“

8. Međunarodni projekti saradnje

ERASMUS+ projekat: Promoting academia industry alliances for R&D through collaborative and open innovation platform [ALL4R&D], br. 598719-EPP-1-2018-1-MK-EPPKA2-CBHE-JP(2018-3234/001-001), voditelj projekta, 2018-2022.

TEMPUS projekat: Energy Efficiency, Renewable Energy Sources and Environmental Impacts – master study [ENERESE], br. 530194-TEMPUS-JPCR-2012, voditelj projekta, 2013-2016.

The role of the private sector in the youth skills ecosystem – ETF (European Training Foundation) and EBRD (European Bank for Reconstruction and Development, nov. 2020.

Seizmička otpornost nearmiranih zidanih zgrada od pune opeke, Institut za materijale i konstrukcije Građevinskog fakulteta u Sarajevu u saradnji sa ILEK, Institut für Leichtbau Entwerfen und Konstruieren, Universität u Stuttgart, finansijski podržano od strane ILEK - Universität u Stuttgart, Federalnog i Kantonalnog ministarstva obrazovanja i nauke.

9. Recenzije

Knjige:

- 2012 „Otpornost materijala“, autori prof. dr. Halid Hrnjić, mr. Milorad Skoko, doc.dr. Amir Čaušević, univerzitetska knjiga, Arhitektonski fakultet Sarajevo
- 2013 „Numerical dynamic tests of masonry-infilled RC frames“, authors Baloevic et al, paper in Engineering Structures, Special issue 2013
- 2014 „Rekonstrukcije zidanih objekata visokogradnje“, autori doc.dr. Amir Čaušević i doc.dr. Nerman Rustempašić, univerzitetska knjiga, Arhitektonski fakultet Sarajevo
- 2016 „Osnove arhitektonskih konstrukcija“, autor doc.dr.sc. Dženana Bijedić, Arhitektonski fakultet Univerzitet u Sarajevu
- 2018 „Modeliranje konstrukcija - metoda konačnih elemanata“, autor prof.dr.sc. Samir Dolarević, Građevinski fakultet Univerziteta u Sarajevu
- 2018 „O načelima i postupcima proračuna građevinskih konstrukcija“, autori: Prof. dr. Damir Lazarević, prof. dr. Josip Dvornik, prof. dr. Nenad Bičanić, Manualia Universitatis studiorum Zagrebensis – Udžbenici Sveučilišta u Zagrebu
- 2019 „Zbirka zadataka iz otpornosti materijala“, autor doc. Dr. Goran Simonović, Građevinski fakultet Univerziteta u Sarajevu
- 2020 „Poliedarski Konačni Elementi u Trodimenzionalnoj Mehanici Čvrstih Tijela – Alternativni Numerički Pristupi“, autor prof. dr. Mili Selimotić, Građevinski fakultet Univerziteta Džemal Bijedić Mostar

- 2020 „Obnova i zaštita arhitektonskog kompleksa Gradačačke utvrde“, autori prof.dr. Amir Čaušević i prof.dr Nerman Rustempašić

- 2023 „Nosive konstrukcije u zgradama – preliminarno dimenzioniranje“ autor prof. dr. Edin Jahić, International University of Sarajevo

- 2024 „Lake nosive konstrukcije“, autori: doc. Dr. Amela Šljivić, prof. dr. Slađana Miljanović, Univerzitet u Sarajevu – Arhitektonski fakultet

- 2024 „Savremene drvene konstrukcije – hibridni sistemi“, Univerzitet u Sarajevu – Arhitektonski fakultet

- 2025 Poglavlje u knjizi „Seizmičke obnove i rekonstrukcije“, Hrvatski centar za potresno inženjerstvo, Zagreb

- 2025 „Ispitivanje građevinskih konstrukcija I, autor prof. dr. Goran Simonović, Univerzitet u Sarajevu – Građevinski fakultet

- 2025 „Ispitivanje građevinskih konstrukcija II, autori: prof. dr. Goran Simonović, prof. dr. Senad Medić, Univerzitet u Sarajevu – Građevinski fakultet

Ostalo:

- Više recenzija naučnih članaka za različite naučne časopise npr: Građevinar, Engineering Structures, Structural Engineering and Mechanics, Technical Gazette, Coupled Systems Mechanics...kao i za mnogobrojne naučne konferencije iz oblasti potresnog inženjerstva i općenito građevinskog konstrukterstva.

10. Članstvo u naučnim i organizacionim odborima

- 2012, 7th International Conference on Computational Mechanics for Spatial Structures IASS-IACM 2012, Sarajevo, April 2012, član organizacionog odbora,

- 2013, The 5th International Conference on Hazards and Modern Heritage CICOP, Sarajevo, član naučnog odbora,

- 2014, Internacionalna konferencija „Građevinarstvo-Nauka i Praksa“, Žabljak Crna Gora, februar 2012, član naučnog odbora,

- 2014, Međunarodna konferencija „Savremena dostignuća u građevinarstvu“, Subotica, april 2014, član naučnog odbora

- 2015, 3rd International Conference „Importance of Place“, Sarajevo, oktobar 2015, član naučnog odbora,

- 2015, 2nd International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS Thematic conference Sarajevo, 10-12.06.2015, organizacioni odbor,

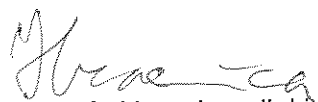
- 2016, Internacionalna konferencija „Građevinarstvo-Nauka i Praksa“, Žabljak Crna Gora, mart 2016, član naučnog odbora,

- 2016, 4. Međunarodna konferencija „Savremena dostignuća u građevinarstvu“, Subotica 22.april 2016, član naučnog odbora
- 2019, 4th International Conference on Multi-scale Computational Methods for Solids and Fluids. ECCOMAS MSF 2019 Thematic conference, Sept. 18-20, 2019 Sarajevo Bosnia and Herzegovina
- 2020, Sedmo naučno-stručno međunarodno savetovanje: Zemljotresno inženjerstvo i inženjerska seizmologija, Društvo za zemljotresno inženjerstvo Srbije, član programskog odbora.
- 2021, Int. scientific conference: Earthquake engineering and geotechnical aspects of civil engineering, Union of engineers and technicians of Serbia, 03-05.11.2021, naučni odbor
- 2022, NT-2022, New technologies and applications conference, Society for robotics of Bosnia and Herzegovina
- 2025. International science-practice conference: Geotechnical Aspects of Civil Engineering and Earthquake Engineering, Vrnjačka Banja, Serbia October, 15 - 17th, 2025, plenary speaker

11. Stručne komisije pri organima uprave, državnim i entiteskim ministarstvima i agencijama

- Predjednik Komisije za polaganje stručnog ispita iz oblasti građevinarstva, smjer Konstrukcije pri Federalnom ministarstvu prostornog uređenja, Sarajevo, BiH
- Više puta član Komisija za tehnički prijem građevina u Federaciji Kantonu i općinama grada Sarajeva
- Predsjednik Komisije Federalnog Ministarstva za prostorno uređenje i okoliš za izradu Uredbe o tehničkim svojstvima koje građevine moraju zadovoljavati u pogledu sigurnosti te načinu korištenja i održavanja građevina
- Predsjednik stručnog dijela Ispitne Komisije Ministarstva pravde FBiH za sudske vještake za oblast građevinarstva u Federaciji Bosne i Hercegovine, 2012 - 2018
- Član Stručnog odbora za poslove ocjene validnosti dokumentacije neophodne za izdavanje ovlaštenja za obavljanje djelatnosti projektovanja, izvođenja radova i nostrifikacije investiciono-tehničke dokumentacije za građevine i zahvate iz nadležnosti Federalnog ministarstva prostornog uređenja 2014-2015
- Predsjednik Tehničkog komiteta BAS/TC 61 Eurokodovi EC2, EC4, EC6, Projektovanje i građenje betonskih, zidanih i spregnutih konstrukcija, Institut za standardizaciju Bosne i Hercegovine, 2016 - trenutno

Sarajevo, 03.11.2025.


Prof. dr. Mustafa Hrasnica, dipl.ing.građ.