


LIČNE INFORMACIJE

Emir Turajlić



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Pol Muški | **Datum rođenja** 22/08/1977 | **Državljanstvo** Bosna i Hercegovina

RADNO MJESTO

Vanredni profesor na Elektrotehničkom fakultetu, Univerzitet u Sarajevu.

RADNO ISKUSTVO

 2019- **Vanredni profesor**

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

 2014-2019. **Docent**

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

OBRAZOVANJE I OBUKE

 2007. **Doktor tehničkih nauka**

EQF nivo 8

Brunel University – Velika Britanija

▪ Digitalna obrada signala

LIČNE VJEŠTINE

Maternji jezik/ci Bosanski

Drugi jezik/ci

Engleski

RAZUMIJEVANJE		GOVOR		PISANJE
Slušanje	Čitanje	Usmena interakcija	Usmeno izražavanje	
C1	C1	C1	C1	C1

Upišite naziv sertifikata o znanju jezika. Unesite nivo, ako je poznat.

Nivoi: A1/2: Osnovna upotreba jezika - B1/B2: Samostalna upotreba jezika - C1/C2 Napredna upotreba jezika
[Zajednički evropski referentni okvir za jezike](#)

Komunikacione vještine

▪ Dobre komunikacione vještine stečene kroz radno iskustvo.

Organizacione / upravljačke vještine

▪ Dobre organizacijske sposobnosti kao rezultat profesionalnog iskustva u nastavi i naučnoistraživačkom radu.

DODATNE INFORMACIJE

- Projekti**
- “CoreIT – Analiza korisničkih zahtjeva u sklopu pripreme tehničkog opisa projekta CEFTA SEED+” Član projektnog tima ispred Univerziteta u Sarajevu, 2021.
 - “ERASMUS+ Capacity Building 585716-EPP-1-2017-1-AT-EPPKA2-CBHE-JP Boosting the Telecommunications Engineer Profile to Meet Modern Society and Industry Needs (BENEFIT) “ - “Jačanje profila inženjera telekomunikacija da zadovolji potrebe modernog društva i industrije“, 2017-2021, član projektnog tima.
 - „Ocjena tehnološke i ekonomske opravdanosti korištenja tradicionalne infrastrukture izgrađene na bazi bakarnih kabela za širokopojasni pristup suvremenoj telekomunikacijskoj infrastrukturi namijenjenoj za pružanje multimedijalnih usluga“, Federalno ministarstvo obrazovanja i nauke po konkursu za 2017. godinu, član projektnog tima.
- Recenzent (časopisi)**
- Signals,
 - AI,
 - Applied Sciences,
 - Applied System Innovation,
 - Expert Systems With Applications,
 - Journal of Ambient Intelligence and Humanized Computing
- Članstvo u međunarodnim strukovnim udruženjima**
- Institute of Electrical and Electronics Engineers (IEEE).
 - CIGRE
- Istraživački profili**
- ORCID: <https://orcid.org/0000-0003-0274-660X>
 - ResearchGate: <https://www.researchgate.net/profile/Emir-Turajlic-2>
 - Google scholar: <https://scholar.google.com/citations?user=0BzGFiQAAAAJ&hl=hr&oi=sra>
 - Publons: <https://publons.com/wos-op/researcher/5290400/emir-turajlic/>
- Organizacija konferencija**
- Publication Chair, 2022 International Conference on Information, Communication and Automation Technologies (ICAT2022), 2022.
 - Scientific and Organizing Committee member, The International Symposium on Mechatronics, Robotics and Embedded Systems-MRES 2018.
 - Program Chair, 2017 International Conference on Information, Communication and Automation Technologies (ICAT2017), 2017.
 - Scientific and Organizing Committee member, The International Symposium on Mechatronics, Robotics and Embedded Systems-MRES 2017.
 - The International Symposium on Mechatronics, Robotics and Embedded Systems –MRES 2018.
 - General Chairs, 2016 XI International Symposium on Telecommunications (BIHTEL2016), 2016.

BIBLIOGRAFIJA

- Knjige**
- Jasmina Baraković Husić, Sabina Baraković, Emir Turajlić, Multimedija i umrežavanje, Univerzitet u Sarajevu, Elektrotehnički fakultet, 2020, ISBN: 978-9958-629-84-6.
 - Emir Turajlić, Jasmina Baraković Husić, Sabina Baraković, „Kompresija slike i videa,“ Univerzitet u Sarajevu, Elektrotehnički fakultet, 2018, ISBN: 978-9958-629-71-6.
 - Emir Turajlić, Artificial neural networks: an algorithmic perspective, Fojnica, 2013, ISBN: 978-9958-17-035-5.

Radovi u časopisima

- A. Mujezinović, E. Turajlić, A. Alihodžić, M.M. Dedović, and N. Dautbašić. 2022. "Calculation of Magnetic Flux Density Harmonics in the Vicinity of Overhead Lines" *Electronics* 11, no. 4: 512, 2022.
- A. Mujezinovic, E. Turajlic, A. Alihodzic, N. Dautbasic and M. M. Dedovic, "Novel Method for Magnetic Flux Density Estimation in the Vicinity of Multi-Circuit Overhead Transmission Lines," in *IEEE Access*, vol. 10, pp. 18169-18181, 2022.
- A. Alihodzic, A. Mujezinovic and E. Turajlic, "Electric and Magnetic Field Estimation Under Overhead Transmission Lines Using Artificial Neural Networks," in *IEEE Access*, vol. 9, pp. 105876-105891, 2021.
- E. Turajlic, A. Begović, N. Škaljo, "Application of Artificial Neural Network for Image Noise Level Estimation in the SVD domain," *Electronics*, vol. 8, No 2: 163. 2019.
- E. Turajlic, "Adaptive Block-Based Approach to Image Noise Level Estimation in the SVD Domain," *Electronics*, vol. 7, No 12: 397, 2018,
- E. Turajlic, "Adaptive SVD Domain-Based White Gaussian Noise Level Estimation in Images," *IEEE Access*, 2018, vol. 6, pp. 72735-72747.

Međunarodne konferencije

- Alihodzic, E. Turajlic and A. Mujezinovic, "Machine Learning Model for Electric and Magnetic Fields Estimation in the Proximity of Overhead Transmission Lines," *2021 29th Telecommunications Forum (TELFOR)*, pp. 1-4, 2021.
- E. Turajlic, E. Buza and A. Akagic, "Multilevel image thresholding based on Rao algorithms and Kapur's Entropy," *2022 XXVIII International Conference on Information, Communication and Automation Technologies (ICAT)*, pp. 1-7, 2022.
- Alihodzic, A. Mujezinovic, E. Turajlic and N. Dautbasic, "Calculation of the Electric Field Intensity and Magnetic Flux Density Generated by High Voltage Overhead Transmission Lines," *2022 XXVIII International Conference on Information, Communication and Automation Technologies (ICAT)*, pp. 1-6, 2022.
- N. Skaljo, A. Begović, N. Goran and E. Turajlić, "On Possibilities for Improvements of xDSL Troubleshooting Testing," *2019 International Conference on Systems, Signals and Image Processing (IWSSIP)*, pp. 139-143, 2019.
- E. Turajlic, "Application of firefly and bat algorithms to multilevel thresholding of X-ray images," In *Proceedings of 41st International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO)*, Opatija, Croatia, pp. 1104-1109, 21-25 May 2018.
- D. Helac, E. Sokic, E. Turajlic, "Almonds classification using supervised learning methods," In *Proceedings of XXVI Information, Communication and Automation Technologies (ICAT)*, Sarajevo, Bosnia-Herzegovina, pp. 1-6, 26-28 Oct. 2017.
- E. Turajlic, A. Begović, "Noise estimation using adaptive Gaussian filtering and variable block size image segmentation", In *Proceedings of IEEE EUROCON*, Ohrid, Makedonija, pp. 249-254, 6-8 July 2017.
- E. Turajlić, "A fast noise level estimation algorithm based on adaptive image segmentation and Laplacian convolution," In *Proceedings of 40th Information and Communication Technology, Electronics and Microelectronics (MIPRO)*, Opatija, Croatia, pp. 486-491, 22-26 May 2017.
- N. Škaljo, A. Begović, E. Turajlić, N. Behilović, "On using of physical layer parameters of xDSL transceivers for troubleshooting," In *Proceedings of 24th International Conference on Systems, Signals and Image Processing IWSSIP*, Poznan, Poland, pp. 1-4, 22-24 May 2017.
- E. Turajlić, N. Škaljo, A. Begović, "A block-based noise level estimation from X-ray images in SVD domain", In *Proceedings of 24th International Conference on Systems, Signals and Image Processing IWSSIP*, Poznan, Poland pp. 1-5, 22-24 May 2017.
- E. Turajlić, V. Karahodzic. "An Adaptive Scheme for X-ray Medical Image Denoising using Artificial Neural Networks and Additive White Gaussian Noise Level Estimation in SVD Domain," *CMBEBIH 2017, IFMBE Proceedings*, 62, pp. 36-40, 2017.
- E. Turajlić, "Application of neural networks to denoising of CT images of lungs," In *Proceedings of XI International Symposium on Telecommunications (BIHTEL)*, Sarajevo, Bosnia-Herzegovina, pp. 1-6, 24-26 Oct. 2016.
- E. Turajlić, "Application of neural networks to compression of CT images," In *Proceedings of XI International Symposium on Telecommunications (BIHTEL)*, Sarajevo, Bosnia-Herzegovina pp. 1-6, 24-26 Oct. 2016,
- Turajlic, Emir. „A fully automatic method for accurate parametrization and reconstruction of ECG waveforms,” In *Proceedings of the IASTED International Conference on Biomedical Engineering (BioMed 2013)*, Innsbruck, Austria, 13 Feb. 2013, pp. 113-119.

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- Turajlic, Emir. "A Novel Algorithm for ECG Parametrization and Synthesis," In Proceedings of IEEE-EMBS Conference on Biomedical Engineering and Sciences, Langkawi; Malaysia; 17-19 Dec. 2012, pp. 927 – 932.
- Turajlic, Emir; Bozanovic, Olja. "Neural Network Based Speaker Verification for Security," In Proceedings of Telecommunications Forum (TELFOR), Belgrade; Serbia; 20-22 Nov. 2012, pp. 740 - 743.
- Turajlic, Emir; Bozanovic, Olja. "A novel adaptive IIR filter algorithm," In Proceedings of Telecommunications Forum (TELFOR), Belgrade; Serbia; 20-22 Nov. 2012, pp. 464 – 467.
- Turajlic, Emir; Bozanovic, Olja. "A novel adaptive FIR filter algorithm," In Proceedings of IX International Symposium on Telecommunications (BIHTEL), Sarajevo; Bosnia and Herzegovina, 25-27 Oct. 2012. pp. 1-5.
- Turajlic, Emir; Bozanovic, Olja. "Optimized group delay based estimation of glottal closure instants," In Proceedings of IX International Symposium on Telecommunications (BIHTEL), Sarajevo; Bosnia and Herzegovina, 25-27 Oct. 2012. pp. 1-6.
- Turajlic, Emir; Softic, Dzenan. "Classification of Power Quality Disturbances Using Artificial Neural Networks and a Logarithmically Compressed S-Transform," In Proceedings of 19th International Conference on Neural Information Processing, (ICONIP 2012), Lecture Notes in Computer Science, Vol. 7664, Doha, Qatar, 12-15 Nov. 2012, pp 608-615.
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- Turajlic, Emir; Rentzos, Dimitrios; Vaseghi, Saeed; Ho, Ching-Hsiang. "Evaluation of methods for parameteric formant transformation in voice conversion," In Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Hong Kong, China, 6-10 April 2003. pp. 724-727.
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- Rentzos, Dimitrios; Vaseghi, Saeed; Yan, Qin; Ho, Ching-Hsiang; Turajlic, Emir. "Probability models of formant parameters for voice conversion," In Proceedings of 8th European Conference on Speech Communication and Technology (Eurospeech), Geneva; Switzerland; 2003, pp. 2405-2408.
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