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| LIČNE INFORMACIJE | Emir Sokic |
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|  |  Zmaja od Bosne bb, Sarajevo Bosnia and Herzegovina  |
|  +387 33 250 700  +387 61 798 874  |
|  esokic@etf.unsa.ba  |
| [http://people.etf.unsa.ba/~esokic/](http://people.etf.unsa.ba/~jvelagic/)  |
|  |
| Pol Muški | Datum rođenja 10/02/1985 | Državljanstvo Bosna and Herzegovina  |

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| RADNO MJESTO  | Vanredni profesor na Elektrotehničkom fakultetu, Univerzitet u Sarajevu |

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| RADNO ISKUSTVO |   |

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| 2021 - ... | Vanredni profesor |
| Elektrotehnički fakultet Univerziteta u Sarajevu, Bosna i Hercegovina |

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| 2016-2021 | Docent |
| Elektrotehnički fakultet Univerziteta u Sarajevu, Bosna i Hercegovina  |

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| 2011-2016 | Viši asistent |
| Elektrotehnički fakultet Univerziteta u Sarajevu, Bosna i Hercegovina |

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| 2008-2011 | Asistent |
| Elektrotehnički fakultet Univerziteta u Sarajevu, Bosna i Hercegovina |
| 2015- ... | Spoljni saradnik |
| EnergoBos ILJIN doo, Sarajevo, Bosna i Hercegovina |
| 2020- ... | Inženjer sistema mašinske vizije - dopunska djelatnost |
| PixelmatIQ, Visoko, Bosna i Hercegovina |

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| OBRAZOVANJE |   |

|  |  |  |
| --- | --- | --- |
| 2011-2015 | Doktor elektrotehničkih nauka | EQF nivo 8 |
| Elektrotehnički fakultet Univerziteta u Sarajevu, Bosna i Hercegovina  |
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| --- | --- | --- |
| 2008-2011 | Magistar elektrotehničkih nauka - smjer automatika i elektronika | EQF nivo 7 |
| Elektrotehnički fakultet Univerziteta u Sarajevu, Bosna i Hercegovina  |
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| --- | --- | --- |
| 2003-2008 | Diplomirani inženjer elektrotehnike - smjer automatika i elektronika  | EQF nivo 6 |
| Elektrotehnički fakultet Univerziteta u Sarajevu, Bosna i Hercegovina |
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|  LIČNE VJEŠTINE |   |

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| Maternji jezik/ci | Bosanski |
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| Drugi jezici | RAZUMIJEVANJE | GOVOR  | PISANJE  |
| Slušanje  | Čitanje  | Usmena interakcija | Usmeno izražavanje |  |
| Engleski | C1 | C1 | B2 | B2 | C1 |
| Italijanski | B1 | B1 | A2 | A2 | A2 |
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|  | Nivoi: A1/2: Osnovna upotreba jezika - B1/B2: Samostalna upotreba jezika - C1/C2 Napredna upotreba jezika[Zajednički evropski referentni okvir za jezike](http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr) |

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| Komunikacione vještine | * dobre komunikacione vještine
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| Organizacione/upravljačke vještine | * liderstvo, mentorisanje
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| Računarske vještine | * dobro poznavanje C++/OpenCV, Matlab,Ubuntu Linux i Microsoft Office
 |

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| DODATNE INFORMACIJE |   |

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| Projekti |

Projekat tipskih elektro-ispitivanja na sterilizacijskim lampama modela UV-DE15 i UV-DE30, svjetiljkom sa UVC zračenjem" Finansijer: Safety Quality Systems - SQS d.o.o. Sarajevo (jul. 2020 - okt-2020)

 Projekat mobilnosti Erasmus + Mare Nostrum, University of Algarve, Faro, Portugal, apr. 2019.

 "Projekat vještačenja mjerenja brzine prenosa i konfiguracije GAMA stanice" Finansijer: Općinski sud u Sarajevu (sept. 2018 - nov. 2018)

 "EnviBreak - Alternative Concepts for Environmentally Compatible Gas Circuit Breakers - podrška pripremi projekta", Finansijer: Ministarstvo civilnih poslova BiH (aug. 2018 - jul. 2019) .

 "EnviBreak - Alternative Concepts for Environmentally Compatible Gas Circuit Breakers - podrška pripremi projekta", Finansijer: Ministarstvo civilnih poslova BiH (jul. 2017 - jun. 2018)

 "Formiranje hibridnog 2D prikaza okoline korištenjem ultrazvučnih akustičnih odziva", Finansijer: Federalno ministarstvo obrazovanja i nauke (2014.-2016.)

 "Cloud Orchestrion and Unified Deployment of Services - CLOUDS" Finansijer: Vijeće Ministara BiH, iz granta "Programi za pripremu projekata i potencijalnih kandidata za sredstva iz fonda EU-FP7" (2014.-2015.)

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| Publikacije, mentorstva i recenzije | * **Publikacije:** 1 naučna knjiiga, 7 radova u časopisima, 23 rada na međunarodnim konferencijama
* **Broj citata:** 170 (Google Scholar), 113 (Scopus), 38 (Web of Science Core Collection).
* **Mentorstvo:**  7 magistara i 16 diplomanata
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| Članstva u strukovnim udruženjima | * IEEE
* BH Cigre
 |
| Istraživački profili | * ORCID: https://orcid.org/0000-0003-3520-2094
* ResearchGate: https://www.researchgate.net/profile/Emir-Sokic
* Google scholar: https://scholar.google.com/citations?user=1JEHYmUAAAAJ&hl=en&oi=ao
 |

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| Organizacija konferencija i uredništvo u časopisima | * Gostujući urednik Specijalnog izdanja Časopisa "B&H Electrical Engineering" - "Research trends in interrupting and switching in HV and MV switchgear"
 |

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| BIBLIOGRAFIJA |   |

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| Monografije i naučne knjige | * Samim Konjicija i Emir Sokić, "Ugradbeni sistemi: Hardverski aspekti", Elektrotehnički fakultet Univerziteta u Sarajevu, 2019, ISBN 978-9958-629-77-8
 |

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| --- | --- |
| Publikacije u časopisima | * M. O Touhami, E. Sokic, A. Smajkic, A. Laso, N. Uzelac: Data acquisition and simulation software as tools for medium voltage switchgear assessment and optimization, B&H Electrical Engineering, Vol. 15, Special Issue, pp. 89-97, 2021
* Sokic, Almir Salihbegovic and Samim Konjicija, "A comprehensive study of shape orientation methods for extraction of phase preserving Fourier descriptors", B&H Electrical Engineering, Volume: 13, Pages: 71-79 Published: Dec. 2019
* Emir Sokic, Mahir Muratovic, Samim Konjicija, Amer Smajkic and Sead Delic, "Design, development and implementation of a distributed measurement system for no-load pressure measurement in high voltage circuit breakers", B&H Electrical Engineering, Volume: 13, Pages: 35-43 Published: Dec. 2019
* Emir Sokic, Vedad Becirovic, Amer Smajkic, Dejan Beslija, Mahir Muratovic, Belma Bosovic and Mirsad Kapetanovic, ."Design, development and implementation of a pressure measurement sensory system for a high voltage circuit breaker model", Bosanskohercegovacka Elektrotehnika Volume: 10 Pages: 46-55 Published: Dec. 2016
* Emir Sokic, and Samim Konjicija. "Phase preserving Fourier descriptor for shape-based image retrieval." Signal Processing: Image Communication, 40 (2016): 82-96. ISSN:0923-5965
* Vildana Dzemidzic, Emir Sokic, Alisa Tiro and Enita Nakas. "Computer Based Assessment of Cervical Vertebral Maturation Stages Using Digital Lateral Cephalograms." Acta Informatica Medica, DEC23(6): 364-368, December 2015. (Web of Science Medline, PubMed, EBSCO)
* Emir Sokic, Alisa Tiro, Elma Sokic-Begovic and Enita Nakas. "Semi-automatic Assessment of Cervical Vertebral Maturation Stages using Cephalograph Images and Centroid-based Clustering". Acta Stomatologica Croatica, 46(4):280-290, December 2012. (Web of Science All databases, EBSCO)
 |
| Publikacije na međunarodnim konferencijama | * Ermin Omeragic, Emir Sokic, "Counting rectangular objects on conveyors using machine vision", 28th Telecommunications Forum (TELFOR), IEEE, Belgrade, 24.-25. Nov 2020.
* Emina Alihodzic, Emir Sokic, "Development of a Wi-Fi based car gate remote control and supervision system", 28th Telecommunications Forum (TELFOR), IEEE, Belgrade, 24.-25. Nov 2020
* Mia Muminovic, and Emir Sokic. "Automatic Segmentation and Classification of Resistors in Digital Images." In 2019 XXVII International Conference on Information, Communication and Automation Technologies (ICAT), pp. 1-6. IEEE, 2019.
* Adnan Kreho, Jasmin Hadzajlic, and Emir Sokic. "Design of Active Visual Marker for High Speed Object Tracking by Frame Subsampling." In 2019 XXVII International Conference on Information, Communication and Automation Technologies (ICAT), pp. 1-6. IEEE, 2019.
* Delila Halac, Emir Sokic, and Emir Turajlic. "Almonds classification using supervised learning methods." In 2017 XXVI International Conference on Information, Communication and Automation Technologies (ICAT), pp. 1-6. IEEE, 2017.
* Emir Sokic, Kenan Softic, Mina Ferizbegovic, Jasmina Zubaca and Melita Ahic-Djokic "A Hybrid Visualization of the Environment using Smart Ultrasound-based Sensor Arrays" 13th International Conference on Informatics in Control, Automation and Robotics, Pages: 573-8 Part: vol.1, 29-31 July 2016, Lisbon, Portugal
* Nermina Ahmic, Emir Sokic, and Melita Ahic-Djokic. "Weighted-function based algorithm for retrieving handwriting trajectory from off-line data." In 2016 XI International Symposium on Telecommunications (BIHTEL), pp. 1-6. IEEE, 2016.
* Jasmina Zubaca, Mina Ferizbegovic, Kenan Softic, Emir Sokic and Melita Ahic-Djokic. "Design of a distributed ultrasound-based sensory system." In at XXV International Conference on Information, communication and automation technologies ICAT 2015, Sarajevo, Bosnia and Herzegovina, October 2015.
* Almir Salihbegovic, Mujo Hebibovic and Emir Sokic. "Synthesis of the integral sliding mode control and the robust internal-loop compensator for a class of nonlinear systems with matched uncertainties". In at XXV International Conference on Information, communication and automation technologies ICAT 2015, Sarajevo, Bosnia and Herzegovina, October 2015.
* Emir Sokic, Mina Ferizbegovic, Jasmina Zubaca, Kenan Softic and Melita Ahic-Djokic. "Design of an ultrasound-based sensory system for environment inspection robots". In In Proceedings of 58th International Symposium "Electronics in Marine" - ELMAR, Zadar, Croatia, September 2015.
* Emir Sokic and Samim Konjicija. "Shape description using phase-preserving Fourier descriptor". In Proceedings of the IEEE International Conference on Multimedia and Expo ICME, Torino, Italy, July 2015.
* Emir Sokic, Delila Halac and Samim Konjicija. "Human-inspired shape-based image retrieval using weighted City-block distance and Fourier descriptors". In Proceedings of Human Memory-Inspired Multimedia Organization and Preservation Workshop HMMP, Torino, Italy, July 2015.
* Emir Sokic and Samim Konjicija. "Novel Fourier Descriptor Based on Complex Coordinates Shape Signature". In Proceedings of 12th IEEE International Workshop on Content-Based Multimedia Indexing CBMI, Klagenfurt, Austria, June 2014.
* Almir Salihbegovic, Emir Sokic, Nedim Osmic and Mujo Hebibovic. "High Performance Disturbance Observer based Control of the Nonlinear 2DOF Helicopter System". In Proceedings of XXIV IEEE International Conference on Information, Communication and Automation Technologies ICAT, Sarajevo, Bosnia and Herzegovina, November 2013.
* Senka Krivic, Admir Kaknjo, Muhidin Hujdur, Nadir Zubovic and Emir Sokic. "Haptic Paddle and Fuzzy Based Virtual Environment Model Control System as a Didactic Tool." In Proceedings of 9th France-Japan and 7th Europe-Asia Congress on Mechatronics (REM) and 13th Int’l Workshop on Research and Education in Mechatronics (MECATRONICS), Paris, France, November 2012.
* Almir Salihbegovic, Emir Sokic, Aida Salihbegovic and Mujo Hebibovic. "Reducing Off-road Vehicle Seat Vibrations Using Hydraulic Piston and Fuzzy Logic Controller. " In Proceedings of IEEE International Symposium "Electronics in Marine" - ELMAR, Zadar, Croatia, September 2012.
* Emir Sokic, Melita Ahic-Djokic and Almir Salihbegovic. "Analysis of Off-line Handwritten Text Samples of Different Gender using Shape Descriptors". In Proceedings of 11th IEEE International Symposium BIHTEL, Sarajevo, Bosnia and Herzegovina, October 2012
* Emir Sokic, Melita Ahic-Djokic and Almir Salihbegovic. "Understanding Signal Theory through Play". In Proceedings of the 34th IEEE International Convention MIPRO, Opatija, Croatia, May 2011
 |
|  | * Emir Sokic, Samim Konjicija, Melita Ahic-Djokic and Almir Salihbegovic. "Stability Issues in Discretization of Wave Equation". In Proceedings of 18th IEEE International Conference on Systems, Signals and Image Processing (IWSSIP), Sarajevo, Bosnia and Herzegovina, June 2011.
* Emir Sokic, Melita Ahic-Djokic and Samim Konjicija. "Sound Field simulation and analysis using wave equation and finite differences method". In Proceedings of IEEE International Symposium "Electronics in Marine" - ELMAR, Zadar, Croatia, September 2010.
* Emir Sokic and Melita Ahic-Djokic. "Simple Computer Vision System for Chess Playing Robot Manipulator as a Project-Based Learning Example". In Proceedings of IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), Sarajevo, Bosnia and Herzegovina, December 2008.
* Vedad Becirovic, Dejan Beslija, Amer Smajkic, Emir Sokic and Mirsad Kapetanovic. "System for simultaneous measurement of multiple travel records in a high voltage circuit breaker kinematic chain". 12. Savjetovanje Bosanskohercegovackog komiteta CIGRE, Neum, Bosnia and Herzegovina, October 2015.
* Alisa Tiro, Emir Sokic, Vildana Dzemidzic, Lejla Redzepagic-Vrazalica and Enita Nakas. "Can Computer predict Cervical Vertebral Maturation Stages?", June 2012. 88th EOS Congress in Santiago de Compostela, Spain. (Abstracts of Lectures and Posters appeared in European Journal of Orthodontics DOI: http://dx.doi.org/10.1093/ejo/cjs078, First published online: 26 September 2012
* Emir Sokic and Melita Ahic-Djokic. "Jednostavan sistem računarske vizije za implementaciju na robotskom manipulatoru kao primjer za projektno bazirano učenje". In Proceedings of VII International Symposium BIHTEL, Sarajevo, Bosnia and Herzegovina, November 2008.
 |