# EMINE YAMAN

Krste Hegedušića 60, Ilidza, Sarajevo

Mobile: + (387) 62 261 452

E-mail: eyaman@ius.edu.ba

## PERSONAL & EDUCATIONAL INFORMATION

**Birth Date & Place**   : 21.10.1982, Tokat, Turkey

**PhD**         : Vienna University of Technology, Computer Engineering         (2008-2015)

**Master**       :   Vienna University of Technology, Medical Informatics   and Computer Engineering                                                           (2006-2008)

**University** : Vienna University of Technology, Medical Informatics   and Computer Engineering                                                           (2001-2006)

## COMPUTER & PROGRAMMING LANGUAGES KNOWLEDGE

**Operating Systems:**

- All Windows Platforms, UNIX and Linux

**Programming Languages:**

- Java, C, C++, C#, Java, Haskell, MATLAB
- **Internet** -  HTML, XML, PHP, ASP, ASP.NET
- **Database Programming** –MS Access, My SQL, MS SQL, Oracle

## FOREIGN LANGUAGES

| | |
|---|---|
| **Turkish** | **:** Native Language |
| **English** | **:** Advanced |
| **German** | **:** Advanced |
| **Bosnian** | **:** Beginner |

## WORK EXPERIENCE

International University of Sarajevo, Assoc.Prof.Dr.        (09.2020-present)

International University of Sarajevo, Dean of Faculty of Education   (10.2018-03.2023)

International University of Sarajevo, Assist.Prof.Dr.        (09.2015-09.2020)

International University of Sarajevo, Teaching Asistant       (10.2008-09.2015)

## TEACHING ACTIVITIES

### UNDER GRADUATE COURSES

- Introduction to Data Mining
- Algorithms and Data Structure
- Database Management
- Architecture and Implementation of Database Management
- Introduction to Computer Engineering
- Introdduction to Programming
- Computer Technology
- Social, Legal and Ethical Issues in Computing
- Introduction to Machine Learning
- Artificial Intelligence

### GRADUATE COURSES

- Advance Data Mining
- Advance Database Management Systems
- Advance Artificial Intelligence

## MENTORED MASTER THESES

- Jusuf Korić (2018), "Comparison Of Unsupervised Machine Learninig Algorithms in Geospation Information System using Census Data", Master Thesis, International University of Sarajevo.

- Amila Zimic (2019), "Enhancing the Effectiveness of Software Testing by Using Exploratory Testing Technique", Master Thesis, International University of Sarajevo.

- Aid Hadzic (2019), "Lossless Data Compression For Text Files", Master Thesis, International University of Sarajevo.

- Emir Hodžić (2019), "Data analysis of Real Estate Market in Bosnia and Herzegovina", Master Thesis, International University of Sarajevo.

- Azra Ibišević (2022), "Suggessions of Products using Association Rule Mining via Improved Appriori Algorithm", Master Thesis, International University of Sarajevo.

- Tajib Smajlović (2022), "Early-Stage Diabetes Risk Prediction: A Cumulative Solution using Machiene Learning And Web Development", Master Thesis, International University of Sarajevo.

- Ajla Sokol (2022), "A Comparative Study Of The Cryptocurrency Price Prediction Machine Learning Models", Master Thesis, International University of Sarajevo.

## RESEARCH INTEREST

- Machine learning, Data mining, Computer vision, Digital signal processing, Robotik in medicine, Telemedicine.

## BOOKS

- Yaman, M.A., Yaman, E., Electronic Health Records. VDM Verlag Dr. Muller GmbH&Co, 2011.

- Yaman, E., Signal Classification. LAP Lambert Academic Publishing, ISBN: 978-620-0-49890-8, 2019.

## INTERNATIONAL BOOK CHAPTERS

- Yaman, E., "Pandemi Sürecinde Paradigma Kaymasi Örneği Olarak Şehirdeki Mekan Algisinin Dönüşümü", Kartepe Zirvesi 2022- Dirençli Şehirler Ve Şehrin Dönüşümü, ISBN No: 978-605-72931-2-1.

- Yaman, E., (2022), Women and COVID-19 Pandemic: Psychosocial Challenges and Opportunities, Centar za napredne studije CNS, Sarajevo, ISBN: 978-9926-471-75-0 Paperback

## SCIENTIFIC PUBLICATIONS

- Yaman, E., Yaman, M.A., Subasi, A., Rattay, F. "Emg Signal Classification using Decision Trees and Neural Networks", IJAS International Journal of Arts and Sciences, Bad Hofgastein (Austria) ISSN: 1944-6934::4(20):285-292(2011).

- Yaman, M.A, Yaman, E., Subasi, A., Rattay, F. "Automatic Gender Classification from Color Images using Support Vector Machines", IJAS International Journal of Arts and Sciences, Bag Hofgastein(Austria) ISSN: 1944-6934::4(20):279-283(2011).

- Gursoy, O., Yaman, M.A., Yaman, E. "Performance Analysis on Students' Gpas And Course Averages using Datamining Techniques", The Journal of Knowledge Economy & Knowledge Management, Sarajevo(Bosnia and Herzegovina), vol. 7, issue. 1, ISSN:1308-3937, 2012.

- Yaman, E., Yaman, M.A., Gursoy, O. "Analysis of Effects on Customer Segmentation using Datamining Methods", The Journal of Knowledge Economy & Knowledge Management, Sarajevo(Bosnia and Herzegovina), 2012.

- Yaman, E. " Cluster Analysis using Data Mining Techniques", First European Conference of Technology and Society, Sarajevo(Bosnia and Herzegovina), 2013.

- Yaman, E., Midik A., Aydin,S., Yaman, M.A., " EEG Signal Classification using K-NN and Voted Perceptron Methods", First European Conference of Technology and Society, Sarajevo(Bosnia and Herzegovina), 2013.

- Yaman, E., Jahic, N., " Classification of Diabetes Patients using Datamining Technics", International Molecular Biology and Biotechnology Congress, Sarayevo(Bosnia and Herzegovina), 2014.

- Kutlay, M. A., Yaman, E., "Comparison of Different Machine Learning Algorithms for National Flags Classification", Southeast Europe Journal of Soft Computing, Sarajevo(Bosnia and Herzegovina), vol.4, no.2, ISSN: 2233-1859, 2015.

- Suljevic-Pasic, A., Yaman, E., "Categorizing Stars with Known Properties Using the Expectation-Maximization Clustering Algorithm", Southeast Europe Journal of Soft Computing, vol.6 no.2 ISSN 2233 – 1859, 2017.

- Yaman, E., Zerdo, Z. "Analyzing for Patterns in the Cattell's 16 Personality Factors Dataset using Social Segmentation",Wseas Transactions on Systems, vol 17, E-ISSN: 2224-2678, 2018.

- Subasi, A., Yaman, E.,Somaily, Y., Alynabawi, H.A., Alobaidi, F., Altheibani, S., "Automated   EMG Signal Classification for Diagnosis of Neuromuscular Disorders using DWT and Bagging", Procedia Computer Science 140(2018)230-237, ScienceDirect.

- Yaman, E., Musić, A., Zerdo, Z., "Using Classification to Determine Whether Personality Profiles of Countries Affect Various National Indexes", International Conference on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO), DOI: 10.1109/ICCAIRO.2018.00017, Page(s):48 – 52, Prague, Czech Republic, IEEE Xplore Publisher, 2018.

- Spahić, R., Bašić, D.,  Yaman, E., "Zeka - Friendy Chatterbot", Southeast Europe Journal of Soft Computing, vol.8 no.1, ISSN 2233 – 1859, 2019.

- Subasi, A., Yaman, E., "EMG Signal Classification using Discrete Wavelet Transform and Rotation Forest", International Conference on Medical and Biological Engineering (CMBEBIH), DOI: https://doi.org/10.1007/978-3-030-17971-7_5, volume:73, Page(s): 29 – 35, Banja Luka, Bosnia and Herzegovina, Springer Nature Switzerland AG 2020, 2019.

- Herzeg, L., Yaman, E., "Analysis of Road Accidents using Data Mining Techniques", International Conference on Electrical Engineering and Computer Science (ICECS 2019), 1-4 May, Sarajevo, Bosnia and Herzegovina, 2019.

- Yaman, E., Subasi, A., "Comparison of Bagging and Boosting Ensemble Machine Learning Methods for Automated EMG Signal Classification," BioMed Research International, vol. 2019, Article ID 9152506, 13 pages, 2019. https://doi.org/10.1155/2019/9152506

- Haskul, M., Yaman, E., "Comparison of Different Machine Learning Algorithms for Breast Cancer Recurrence Classification", Southeast Europe Journal of Soft Computing, vol.8 no.2, ISSN 2233 – 1859, 2019.

- Sokol, A., Yaman, E., "Movie Recommender System", Southeast Europe Journal of Soft Computing, vol.8 no.2, ISSN 2233 – 1859, 2019.

- Yaman, E., "Geodemographic Segmentation using Machine Learning Algorithms", Kartepe Summit:Urbanization and Happy Cities, International Academic Papers Book, ISBN: 978-605-5116-76-7, 2019.

- Yaman, E., Krdžalic-Koric, K., "Address Entities Extraction using Named Entity Recognition", 7th International Conference on Future Internet of Things and Cloud Workshops (FiCloudW), DOI: 10.1109/FiCloudW.2019.00016, Page(s): 13-17, Istanbul, Turkey, IEEE Xplore Publisher, 2019.

- Yaman, E., "Modeling Real Life Problems by using Graph Theory in the Pandemia Process", Online International Conference of COVID-19 (CONCOVID), ISBN: 978-605-7858-31-3, 2020.

- Subasi, A., Yaman, E. (2021) "Diagnosis of Neuromuscular Disorders Using TQWT and Random Subspace Ensemble Classifier", CMBEBIH 2021, IFMBE Proceedings, vol 84. Springer, Cham. https://doi.org/10.1007/978-3-030-73909-6_2

- Perva, F., Tucaković, H., Mušanović, M., Yaman, E., "Prediction of cardiovascular disease", XXVIII International Conference on Information, Communication and Automation Technologies (ICAT), DOI: 10.1109/ICAT54566.2022.9811108, Publisher: IEEE Xplore, 2022.

- Tanisik, M.A., Yaman, E., Almisreb, A., Tahir, N. M., "Diagnosis of cardiovascular diseases using classification algorithms", 2022 IEEE Symposium on Wireless Technology & Applications (ISWTA), DOI: 10.1109/ISWTA55313.2022.9942793, Publisher: IEEE Xplore, 2022.

- Hibović, L., Smajić, S., Yaman, E., "Predicting Satisfaction of Airline Passengers Using Classification", 2022 International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), DOI: 10.1109/ISMSIT56059.2022.9932850, Publisher: IEEE Xplore, 2022.

## MAJOR COMMITTEE ASSIGNMENTS

- Member of Publication Committee, since 2019
- Member of Academic Evaluation Committee, since 2019

## ADMINISTRATIVE DUTIES

- Dean of Faculty of Education, between 2018-2023
- Member of University Council, between 2018-2023
- Member of Senad, between 2018-2023
- Member of Faculty Council, between 2015-2023
- Member of Graduate Council, between 2019-2023

## PROJECTS:

- Research Title: Diagnosis of Neuromuscular Disorders Using Wavelet Based Feature Extraction Methods and Ensemble Classifiers.

Research Field: Major: Electrical and Computer Engineering Minor:Biomedical Specific:Machine Learning

Duration of Proposed Research: 2 Years, Year: 2018.

- From Göbeklitepe to Mostar - Cultural Heritage Bridge, Erasmus+ KA153 Youth Project. 01.01.2023-31.12.2023. Project No: 2022-3-TR01-KA153-YOU-000093744.

## REFEREED FOR THE JOURNALS

- Neural Computing and Applications (Springer) since 2016.
- Biomedical Engineering and Computational Biology, Sage Journals, since 2018.
- DergiPark, since 2019.