

CV

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PROFESSIONAL PROFILE

EDUCATION

- 01/2006 – 07/2006 **Visiting Researcher**, Electrical and Computer Engineering,
Georgia Institute of Technology, School of Electrical and Computer Engineering,
U.S.A.
Research Topic: Classification of Speech Signals using Machine Learning Techniques
- 02/1995 – 07/06/2001 **Ph.D.**, Electrical and Electronics Engineering,
Sakarya University, Department of Electrical and Electronics Engineering, Turkey.
Dissertation: Performance Improvement of Multistage Interconnection Networks.
- 09/1990 – 08/09/1993 **M.S.**, Electrical and Electronics Engineering,
Middle East Technical University (METU), Department of Electrical and Electronics Engineering, Turkey.
Thesis: Performance Evaluation of Delta Switching Networks.
- 09/1986 – 04/06/1990 **B.S.**, Electronics Engineering,
Hacettepe University, Department of Electrical and Electronics Engineering,
Turkey.

SUMMARY OF MAJOR RESEARCH ACHIEVEMENT

My main research and teaching interests lie in two major areas, Artificial Intelligence, Machine Learning, Digital Twin Based Modelling and Healthcare Data Analysis.

My primary research interest was focused on Artificial Intelligence, Machine Learning and Digital Twins. In recent years, I also intensively participated in many projects related to biomedical data analysis, IoT, Big Data, and Cloud Computing.

KEY ACHIEVEMENTS

- ✓ Developed an excellent research experience, as shown by the research excellence awards, the most cited journal papers, book chapters, and conference papers.
- ✓ Queen Effat Award for Excellence in Research, May 2018
- ✓ Mostly cited scientists included on Stanford University's list of the world's top 2% of scientists in the field of Artificial Intelligence & Image Processing in the mostly cited ranking report both “scientists for career-long citation impact (*Rank: 325*)” and “the single calendar year 2022 (*Rank: 99*)”. “Ioannidis, J. P., Boyack, K. W., & Baas, J. (2020). Updated science-wide author databases of standardized citation indicators. *PLoS Biology*, 18(10), e3000918”. October 2023 data-update for "Updated science-wide author databases of standardized citation indicators"
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6>
- ✓ Book series editor in “Artificial Intelligence Application” with Elsevier
- ✓ Abdulhamit Subasi (Sole Author Book) “**Practical Guide for Biomedical Signals Analysis Using Machine Learning Techniques, A MATLAB Based Approach**” with Elsevier, 2019, ISBN:978-0-12-817444-9.
- ✓ Abdulhamit Subasi (Sole Author Book) “**Practical Machine Learning for Data Analysis using Python**” with Elsevier, 2020, ISBN: 9780128213797.
- ✓ Abdulhamit Subasi (Editor), **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
- ✓ Saeed Mian Qaisar (Editor), Humaira Nisar (Editor), Abdulhamit Subasi (Editor), **Advances in Non-Invasive Biomedical Signal Sensing and Processing with Machine Learning**, Springer, 2023, ISBN: 9783031232381.
- ✓ Abdulhamit Subasi (Editor), **Applications of Artificial Intelligence in Healthcare and Biomedicine**, Elsevier, 2024, ISBN: 9780443223082.
- ✓ Abdulhamit Subasi (Editor), Saeed Mian Qaisar (Editor), Humaira Nisar (Editor), **Artificial Intelligence and Multimodal Signal Processing in Human-Machine Interaction**, Elsevier, 2024, Paperback ISBN: 9780443291500, eBook ISBN: 9780443291517
- ✓ Abdulhamit Subasi (Editor), Saeed Mian Qaisar (Editor), Akash Kumar Bhoi (Editor), Parvathaneni Naga Srinivasu (Editor), **Artificial Intelligence Applications for Brain-Computer Interfaces**, Elsevier, 2024.

QUALIFICATIONS

- Extensive background in education (more than 25 years): teaching, training, supervising, preparing and presenting technical work in national and international conferences.
- Extensive experience in leading accreditation process (national and international) (since 2008)
- Supervising/Advising students
- Participate in several university committee activities.
- Active member in the community
- Broad knowledge of and experience using computer systems and technologies, Operating Systems, computer networking. Microsoft applications and other computer tools.
- Organization of scientific international conferences
- Participated as a judge of the work of others
- Published more than 280 articles in scientific journals and international conferences
- Achieved ~ Total citations: 6000, ISI Web of Science citations
- Achived ~ 17000 Google citations for publications

MANAGEMENT

- Strong experience in administration of personnel functions, training, and performance evaluation
- Ability to work across organizational boundaries
- Organized, creative, team work, good problem solving skills, and highly motivated/goal-oriented
- Proficiency in writing software documents and presenting technical activities
- Excellent oral and written communication skills
- Strong decision-making and organizational skills
- Committee organizer for International Conferences
- Good communicator, self-starter and excellent team-builder

MAJOR CONTRIBUTIONS

- Director of AI4HEALTH Research Lab. at University at Albany, SUNY.
- Director of Artificial Intelligence and Cyber Security Lab. at Effat University
- Head of Biomedical Signal Processing Research Group at IBU
- Head of Machine Learning Research Group at IBU
- Major contributor in the curriculum development of the Computer Science Program, Effat University (2017-2018).
- Main Leader for the BOLOGNA accreditation for the Faculty of Engineering (Four Departments: Information Technologies, Electrical and Electronics Engineering, Genetics and Bioengineering, Architecture) (2010-2015), International Burch University.
- Major contributor in the curriculum development of the Information Technology Department, International Burch University (2008-2009).
- Major contributor in the curriculum development of the Electrical and Electronics Engineering Department, International Burch University (2010-2011).
- Major contributor in the Design and establishment of International Burch University, Electrical and Electronics Engineering department laboratories, including microprocessor lab, embedded system lab, circuit analysis lab, electronics lab, signal processing lab, machine learning lab, and smart home lab.

RESEARCH INTERESTS

- Artificial Intelligence,
- Machine Learning,
- Digital Twins,
- Large Language Models,
- Generative AI,
- Data Science
- Healthcare System Modelling

PROFESSIONAL EXPERIENCE

Sept. 2023 – Present **Associate Professor**, Information Sciences & Technology Dept., CEHC University at Albany, SUNY, NY.

Sept. 2020 – Aug 2023 **Professor**, Institute of Biomedicine, Faculty of Medicine University of Turku, Turku, Finland

Aug. 2018 – Sept. 2020 **Professor**, Director of Artificial Intelligence and Cyber Security Lab.
Effat University, Jeddah, Saudi Arabia

Aug. 2015 – Sept. 2020 **Professor**, Department of Computer Science,
Effat University, Jeddah, Saudi Arabia

Nov. 2012 – July 2015 **Professor**, Dean of Faculty of Engineering and Information Technology,
International Burch University, Sarajevo, Bosnia and Herzegovina.

Sep. 2009 – Oct. 2012 **Assoc. Professor**, Dean of Faculty of Engineering and Information Technology,
International Burch University, Sarajevo, Bosnia and Herzegovina

Sep. 2008 – July. 2009 **Visiting Assistant Professor**, Faculty of Engineering and Natural Science, In-
ternational University of Sarajevo, Sarajevo, Bosnia and Herzegovina

Jan 2005 – Jul. 2006 **Visiting Scholar**, Electrical and Computer Engineering,
Georgia Institute of Technology, Department of Electrical and Computer Engi-
neering, Atlanta, Georgia, U.S.A.

June 2001 – Sep. 2009 **Assistant Professor**, Department of Electrical and Electronics Engineering,
Kahrmanmaras Sutcu Imam University, Turkey

Sep. 1994 – Apr. 1997 **Full-time Lecturer**, Department of Electrical and Electronics Engineering, Ki-
rikkale University, Kirikkale, Turkey

Sep. 1991 – Sep. 1994 **Research and Teaching Assistant**, Department of Electrical and Electronics
Engineering, University of Gaziantep, Gaziantep, Turkey.

INDUSTRIAL EXPERIENCE

Jan. 2019- Dec. 2021 **Consultant**, ARAMCO, Saudi Arabia

Sep. 2012 – Jul. 2015 **Consultant**, Info Studio, Sarajevo, Bosnia and Herzegovina

Jul. 1999 – Jun. 2001 **Technical Training Manager**, TEKOFAKS Inc.
Panasonic Turkey Branch, Istanbul, Turkey

Aug. 1998 – Jul. 1999 **IT Manager & Technical Trainer**, BILGITAS Company.
Istanbul, Turkey

TEACHING EXPERIENCE

1. Teaching at University at Albany, SUNY

Graduate Courses Taught:

- ✓ Analysis, Visualization, and Prediction in Analytics
- ✓ Applied Machine Learning
- ✓ Data Mining

2. Teaching at University of Turku

Graduate Courses Taught:

- ✓ Physical basis of medical imaging
- ✓ BioImage Informatics 1
- ✓ Medical Imaging Project Work
- ✓ Artificial Intelligence Applications in Healthcare & Biomedicine

3. Teaching at Effat University

Undergraduate Courses Taught:

- ✓ Artificial Intelligence
- ✓ Data Mining
- ✓ Machine Learning
- ✓ Computer Vision
- ✓ Data Structures
- ✓ Computer Networks
- ✓ Computer Architecture and Organization
- ✓ Operating Systems
- ✓ Bioinformatics
- ✓ High Performance Computing
- ✓ Research and Professional Writing

4. Teaching at International Burch University

Undergraduate Courses Taught:

- ✓ Algorithms and Programming
- ✓ Object Oriented Programming
- ✓ Data Structures
- ✓ Digital Design
- ✓ Computer Networks
- ✓ Microprocessors
- ✓ Embedded System Design
- ✓ Digital Image Processing
- ✓ Digital Signal Processing
- ✓ Fundamentals of Biomedical Engineering

Graduate Courses Taught:

- ✓ Biomedical Signal Processing
- ✓ Biomedical Image Processing
- ✓ Biomedical Electronics
- ✓ Statistical Signal Processing
- ✓ Machine Learning
- ✓ Pattern Recognition

5. Teaching at International University Sarajevo

Undergraduate Courses Taught:

- ✓ Digital Design
- ✓ Data Structures
- ✓ Computer Networks
- ✓ Programming Languages

Graduate Courses Taught:

- ✓ Parallel Computer Architecture
- ✓ Computer and Networks Security
- ✓ Cryptography and Data Security
- ✓ Network Programming

6. Teaching at K. Sutcu. Imam University

Undergraduate Courses Taught:

- ✓ Circuit Theory
- ✓ Electronics
- ✓ Signals and Systems
- ✓ Advanced Programming
- ✓ Object Oriented Programming
- ✓ Digital Design
- ✓ Computer Networks
- ✓ Microprocessors
- ✓ Embedded System Design

Graduate Courses Taught:

- ✓ Parallel Computer Architecture
- ✓ Statistical Signal Processing
- ✓ Computer and Networks Security
- ✓ Cryptography and Data Security

7. Course Developer

- ✓ Developed a new course on *Data Mining* at Effat University, 2015.
- ✓ Developed a new course on *Machine Learning* at Effat University, 2016.
- ✓ Developed a new course on *Artificial Intelligence* at Effat University, 2019.
- ✓ Developed a new course on *AI Applications in Healthcare & Biomedicine*, University of Turku, 2022
- ✓ Developed a new course on *Data Analytics for Health Informatics*, University at Albany, SUNY, 2023.

PUBLICATIONS

CITATIONS

GOOGLE: Total citations ~ 17000, h-index 60

Scholar web: <https://scholar.google.com/citations?user=W6FLhskAAAAJ&hl=en>

SCOPUS: Total citations ~ 10100, h-index 48

ISI Web of Science: Total citations: 7730, h-index 41

REFEREED JOURNAL PUBLICATIONS

Accepted/Published Articles in SCI indexed Journals (Peer-review)

1. Adaleta Gicić, Dženana Đonko and Abdulhamit Subasi, Time sequence deep learning model for ubiquitous tabular data with unique 3D tensors manipulation, *Entropy* 2024, 26(9), 783;
<https://doi.org/10.3390/e26090783>
2. M. Irfan, P. Shun, B. B. Felix, N. Mustafa, S. F. Abbasi, A. Nahli, A. Subasi, T. Westerlund, W. Chen, An IoT-Based Non-Contact ECG System: Sole of the Feet / Hands Palm, *IEEE Internet of Things Journal* (Accepted)

3. Turker Tuncer, Sengul Dogan, Abdulhamit Subasi, Automated Facial Expression Recognition using Novel Textural Transformation, (Accepted AIHC)
4. Haider, Usman, et al. "EEG-based schizophrenia classification using penalized sequential dictionary learning in the context of mobile healthcare." *Biomedical Signal Processing and Control* 90 (2024): 105856.
5. Unlu, A., Hakkarainen, P., Karjalainen, K., & Subasi, A. (2023). Risk prediction model for cannabis use with artificial intelligence approach. *Journal of Substance Use*, 1-8.
6. Irfan, Muhammad, et al. "An Ensemble Voting Approach with Innovative Multi-Domain Feature Fusion for Neonatal Sleep Stratification." *IEEE Access* (2023).
7. Hancer, Emrah, and Abdulhamit Subasi. "EEG-based emotion recognition using dual tree complex wavelet transform and random subspace ensemble classifier." *Computer methods in biomechanics and biomedical engineering*, Vol 26, no. 14 (2023): 1772-1784.
8. Abdulhamit Subasi, Saeed Mian Qaisar, EEG-based Emotion Recognition Using Modified Covariance and Ensemble Classifiers, *Journal of Ambient Intelligence and Humanized Computing*, Volume 15, pages 575–591, (2024).
9. Zonghan Gan, Abdulhamit Subasi, Promoting Accuracy in Low-magnification Histopathology Grading: with Augmentation and Multi-Dilation Model, *Biomedical Signal Processing and Control*, Volume 86, Part A, September 2023, 105118.
<https://doi.org/10.1016/j.bspc.2023.105118>
10. Ozaltin O, Yeniay O, Subasi A (2023) OzNet: A new deep learning approach for automated classification of COVID-19 computed tomography scans. *Big Data* 3:X, 1–17, DOI: 10.1089/ big.2022.0042.
11. Tuncer, T., Dogan, S., Kaya, M. C., & Subasi, A. (2023). Automated and accurate focal EEG signal detection method based on the cube pattern. *Multimedia Tools and Applications*, 82(13), 19675-19691.
<https://doi.org/10.1007/s11042-023-14430-0>
12. Subasi, A., Keles, T., Ozyurt, F., Dogan, S., & Tuncer, T. (2023). Feature extraction and fusion using deep convolutional neural networks for Covid-19 detection using CT and X-RAY images. *World Journal of Advanced Research and Reviews*, 19(1), 914-933.
<https://doi.org/10.30574/wjarr.2023.19.1.1391>
13. Adaleta Gicić, Dženana Đonko, Abdulhamit Subasi, Intelligent Credit Scoring using Deep Learning Methods, *Concurrency Computat Pract Exper.* 2023; e7637.
<https://doi.org.ezproxy.utu.fi/10.1002/cpe.7637>
14. Abdulhamit Subasi, Sengul Dogan, Turker Tuncer, A novel automated Tower Graph based ECG Signal Classification Method with Hexadecimal Local Adaptive Binary Pattern and Deep Learning, *Journal of Ambient Intelligence and Humanized Computing*, 2023, 14, 711–725.
<https://doi.org/10.1007/s12652-021-03324-4>
15. Oznur Ozaltin, Orhan Coskun, Ozgur Yeniay, Abdulhamit Subasi, A Deep Learning Approach for Detecting Stroke from Brain CT images using OzNet, *Bioengineering* 9 (12), 783, 2022.
<https://doi.org/10.3390/bioengineering9120783>
16. Turker Tuncer, Sengul Dogan, Abdulhamit Subasi, LEDPatNet19: Automated Emotion Recognition Model based on Nonlinear LED Pattern Feature Extraction Function using EEG signals, *Cognitive Neurodynamics*, volume 16, pages 779–790, 2022.
<https://doi.org/10.1007/s11571-021-09748-0>
17. O. Ozaltin, O. Coskun, O. Yeniay, A. Subasi, Classification of brain hemorrhage computed tomography images using OzNet hybrid algorithm. *Int J Imaging Syst Technol.* 2023; 33(1): 69- 91.
doi:10.1002/ima.22806
18. A. Subasi, A. Saikia, K. Bagedo, A. Singh and A. Hazarika, "EEG Based Driver Fatigue Detection Using FAWT and Multiboosting Approaches," *IEEE Transactions on Industrial Informatics*, vol. 18, no. 10, pp. 6602-6609, Oct. 2022, doi: 10.1109/TII.2022.3167470.
19. Parisa Moridian, Navid Ghassemi, Mahboobeh Jafari, Salam Salloum-Asfar, Delaram Sadeghi, Marjane Khodatars, Afshin Shoeibi, Abbas Khosravi, Sai Ho Ling, Abdulhamit Subasi, Sara A Abdulla, Roohallah Alizadehsani, Juan M Gorris, U Rajendra Acharya, Automatic autism spectrum disorder detection using

- artificial intelligence methods with MRI neuroimaging: A review, *Frontiers in Molecular Neuroscience*, 15, 2022. <https://doi.org/10.3389/fnmol.2022.999605>
20. S. Cankurt, A. Subasi, Tourism Demand Forecasting Using Stacking Ensemble Model with Adaptive Fuzzy Combiner, *Soft Computing*, 26(7), 3455-3467, 2022. <https://doi.org/10.1007/s00500-021-06695-0>
 21. Saeed Mian Qaisar, Abdulhamit Subasi, Effective epileptic seizure detection based on the event-driven processing and machine learning for mobile healthcare, *Journal of Ambient Intelligence and Humanized Computing* (2022) 13:3619–3631. <https://doi.org/10.1007/s12652-020-02024-9>
<http://link.springer.com/article/10.1007/s12652-020-02024-9>
 22. Abdulhamit Subasi, Mohamed F. El-Amin, Tarek Darwich, Mubarak Dossary, Permeability Prediction of Petroleum Reservoirs using Stochastic Gradient Boosting Regression, *Journal of Ambient Intelligence and Humanized Computing* (2022) 13:3555–3564
<http://link.springer.com/article/10.1007/s12652-020-01986-0>
 23. A. Subasi, S. M. Qaisar, Surface EMG Signal Classification using TQWT, Bagging and Boosting for Hand Movement Recognition, *Journal of Ambient Intelligence and Humanized Computing* (2022) 13:3539–3554. <https://doi-org.ezproxy.utu.fi/10.1007/s12652-020-01980-6>
<https://link.springer.com/article/10.1007/s12652-020-01980-6>
 24. Liu H, Cui G, Luo Y, Guo Y, Zhao L, Wang Y, Subasi A, Dogan S, Tuncer T (2022). Artificial Intelligence-Based Breast Cancer Diagnosis Using Ultrasound Images and Grid-Based Deep Feature Generator. *International Journal of General Medicine*, 15, 2271
 25. Afshin Shoeibi, Navid Ghassemi, Marjane Khodatars, Parisa Moridian, Roohallah Alizadehsani, Assef Zare, Abbas Khosravi, Abdulhamit Subasi, U. Rajendra Acharya, and J. Manuel Gorriz, Detection of Epileptic Seizures on EEG Signals Using ANFIS Classifier, Autoencoders and Fuzzy Entropies, *Biomedical Signal Processing and Control*, Volume 73, March 2022, 103417
 26. Turker Tuncer, Sengul Dogan, Pawel Plawiak, Abdulhamit Subasi, A novel Discrete Wavelet-Concatenated Mesh Tree and ternary chess pattern based ECG signal recognition method, *Biomedical Signal Processing and Control*, Volume 72, Part A, February 2022, 103331.
<https://www.sciencedirect.com/science/article/pii/S1746809421009289>
 27. Turker Tuncer, Sengul Dogan, Abdulhamit Subasi, Novel Finger Movement Classification Method Based on Multi-Centered Binary Pattern Using Surface Electromyogram Signals, *Biomedical Signal Processing and Control*, Volume 71, Part A, January 2022, 103153.
<https://www.sciencedirect.com/science/article/pii/S1746809421007503>
 28. A. Subasi and S. Mian Qaisar, "The Ensemble Machine Learning-Based Classification of Motor Imagery Tasks in Brain-Computer Interface," *J. Healthc. Eng.*, vol. 2021, p. 1970769, Nov. 2021, doi: 10.1155/2021/1970769.
<https://www.hindawi.com/journals/jhe/2021/1970769/>
 29. Hezam Albaqami, Ghulam Mubashar Hassan, Abdulhamit Subasi, and Amitava Datta, Automatic detection of abnormal EEG signals using wavelet feature extraction and gradient boosting decision tree, *Biomedical Signal Processing and Control*, Volume 70, September 2021, 102957.
<https://doi.org/10.1016/j.bspc.2021.102957>
<https://www.sciencedirect-com.ezproxy.utu.fi/science/article/pii/S1746809421005541>
 30. H. Dahrouj et al., "An Overview of Machine Learning-Based Techniques for Solving Optimization Problems in Communications and Signal Processing," *IEEE Access*, vol. 9, pp. 74908-74938, 2021, doi: 10.1109/ACCESS.2021.3079639. [10.1109/ACCESS.2021.3079639](https://doi.org/10.1109/ACCESS.2021.3079639)
<https://ieeexplore.ieee.org/document/9429227>
 31. M. F. El-Amin, A. Subasi, M. M. Selim and A. Mousa, "Predicted oil recovery scaling-law using stochastic gradient boosting regression model," *Computers, Materials & Continua*, vol. 68, no.2, pp. 2349–2362, 2021. doi:10.32604/cmc.2021.017102
 32. A. Subasi, T. Tuncer, S. Dogan, D. Tanko, and U. Sakoglu, EEG-based emotion recognition using tunable Q wavelet transform and rotation forest ensemble classifier. *Biomedical Signal Processing and Control*, Volume 68, July 2021, 102648. <https://doi.org/10.1016/j.bspc.2021.102648>

- <https://www.sciencedirect.com/science/article/pii/S1746809421002457>
33. Turker Tuncer, Sengul Dogan, Abdulhamit Subasi, EEG-based Driving Fatigue Detection using Multilevel Feature Extraction and Iterative Hybrid Feature Selection, *Biomedical Signal Processing and Control*, Volume 68, July 2021, 102591. <https://doi.org/10.1016/j.bspc.2021.102591>
<https://www.sciencedirect.com/science/article/pii/S1746809421001889>
 34. Mirra Soundirarajan, Mohammad Hossein Babini, Sue Sim, Visvamba Nathan, Abdulhamit Subasi, Hamidreza Namazi, Analysis of brain-facial muscle connection in the static fractal visual stimulation, *Int J Imaging Syst Technol.* 2021; 31: 548– 554. <https://doi-org.ezproxy.utu.fi/10.1002/ima.22480>
<https://onlinelibrary.wiley.com/doi/abs/10.1002/ima.22480>
 35. Fatih Ozyurt, Turker Tuncer, Abdulhamit Subasi, An automated COVID-19 detection based on fused dynamic exemplar pyramid feature extraction and hybrid feature selection using deep learning, *Computers in Biology and Medicine*, 132 (2021) 104356. <https://doi.org/10.1016/j.combiomed.2021.104356>
<https://www.sciencedirect.com/science/article/pii/S0010482521001505>
 36. Turker Tuncer, Sengul Dogan, Abdulhamit Subasi, A New Fractal Pattern Feature Generation Function based Emotion Recognition Method using EEG, *Chaos, Solitons & Fractals*, Volume 144, March 2021, 110671. <https://doi.org/10.1016/j.chaos.2021.110671>. <https://doi.org/10.1016/j.chaos.2021.110671>
<https://www.sciencedirect.com/science/article/abs/pii/S0960077921000242>
 37. Turker Tuncer, Fatih Ozyurt, Sengul Dogan, Abdulhamit Subasi, A novel Covid-19 and Pneumonia Classification Method based on F-transform, *Chemometrics and Intelligent Laboratory Systems*, 2021, Volume 210, 15 March 2021, 104256, <https://doi.org/10.1016/j.chemolab.2021.104256>.
<https://www.sciencedirect.com/science/article/abs/pii/S0169743921000241>
 38. M. Hammad, A. M. Ilyasu, A. Subasi, E. S. L. Ho and A. A. A. El-Latif, "A Multitier Deep Learning Model for Arrhythmia Detection," *IEEE Transactions on Instrumentation and Measurement*, vol. 70, pp. 1-9, 2021, Art no. 2502809, doi: 10.1109/TIM.2020.3033072.
<https://ieeexplore.ieee.org/document/9239355>
 39. Turker Tuncer, Sengul Dogan, Fatih Ertam, Abdulhamit Subasi, A dynamic center and multi threshold point based stable feature extraction network for driver fatigue detection utilizing EEG signals, *Cognitive Neurodynamics* volume 15, pages 223–237, 2021. <https://doi.org/10.1007/s12652-020-01980-6>
<http://link.springer.com/article/10.1007/s12652-020-01980-6>
 40. Turker Tuncer, Fatih Ertam, Sengul Dogan, Abdulhamit Subasi, An automated daily sport activities and gender recognition method based on novel multi-kernel local diamond pattern using sensor signals, *IEEE Transactions on Instrumentation and Measurement*, Volume: 69, Issue: 12, Dec. 2020, pp. 9441 – 9448. DOI: 10.1109/TIM.2020.3003395
<https://ieeexplore.ieee.org/document/9120077>
 41. Hamidreza Namazi, Ondrej Krejcar, Abdulhamit Subasi, Complexity and information-based analysis of the variations of the SARS-CoV-2 genome in the United States of America (USA), *Fractals*, Vol. 28, No. 7 (2020) 2150023. <https://doi.org/10.1142/S0218348X21500237>
<https://worldscientific.com/doi/abs/10.1142/S0218348X21500237>
 42. Saeed. M. Qaisar, Abdulhamit Subasi, Cloud-based ECG Monitoring using Event-Driven ECG Acquisition and Machine Learning Techniques, *Physical and Engineering Sciences in Medicine*, 2020 Jun;43(2):623-34. <https://doi.org/10.1007/s13246-020-00863-6>
<https://doi.org/10.1007/s13246-020-00863-6>
 43. Turker Tuncer, Abdulhamit Subasi, Fatih Ertam, Sengul Dogan, A novel spiral pattern and 2D M4 pooling based environmental sound classification method. *Applied Acoustics*. 2020 Dec 15;170:107508. <https://doi.org/10.1016/j.apacoust.2020.107508>
<https://www.sciencedirect.com/science/article/abs/pii/S0003682X20306125>
 44. Samed Jukic, Muzafer Saracevic, Abdulhamit Subasi, Jasmin Kevric, Comparison of Ensemble Machine Learning Methods for Automated Classification of Focal and Non-focal Epileptic EEG Signals, *Mathematics* 2020, 8, 1481. <https://doi.org/10.3390/math8091481>

45. Turker Tuncer, Sengul Dogan, Fatih Ertam, Abdulhamit Subasi, A Novel Ensemble Local Graph Structure Based Feature Extraction Network for EEG Signal Analysis, *Biomedical Signal Processing and Control*, Volume 61, August 2020, 102006. <https://doi.org/10.1016/j.bspc.2020.102006>
<https://www.sciencedirect.com/science/article/pii/S1746809420301622>
46. Turker Tuncer, Sengul Dogan, Abdulhamit Subasi, Surface EMG Signal Classification using Ternary pattern and discrete wavelet transform based feature extraction for Hand Movement Recognition, *Biomedical Signal Processing and Control*, Volume 58, April 2020, 101872, <https://doi.org/10.1016/j.bspc.2020.101872>
<https://www.sciencedirect.com/science/article/abs/pii/S1746809420300288>
47. Ahnaf R. Hassan, Abdulhamit Subasi, Yanchun Zhang, Epilepsy seizure detection using Complete Ensemble Empirical Mode Decomposition with Adaptive Noise, *Knowledge-Based Systems*, Volume 191, 5 March 2020, 105333. <https://doi.org/10.1016/j.knosys.2019.105333>
<https://www.sciencedirect.com/science/article/abs/pii/S0950705119306045>
48. A. Subasi, Diagnosis of Neuromuscular Disorders using DT-CWT and Rotation Forest Ensemble Classifier, *IEEE Transactions on Instrumentation and Measurement*, May 2020, 69(5), 1940-1947. DOI: 10.1109/TIM.2019.2918596
<https://ieeexplore.ieee.org/document/8721275>
49. Babić, M., Subasi, A., Bergmann, C. P., Moradi, M., Barka, N., Abu-Mahfouz, I., ... & Vuherer, T. (2019). A new statistical pattern recognition method and a new sequence hybrid method of intelligent systems. *Elektrotehniski Vestnik*, 86(3), 110-116.
50. E. Yaman, A. Subasi, Comparison of Bagging and Boosting Ensemble Machine Learning Methods for Automated EMG Signal Classification, *BioMed Research International*, Volume 2019, Article ID 9152506, 13 pages. <https://doi.org/10.1155/2019/9152506>
<https://www.hindawi.com/journals/bmri/2019/9152506/>
51. Anil Hazarika, Lachit Dutta, Pranjal Barman, Abdulhamit Subasi, Manabendra Bhuyan, Champak Talukdar, Real-time Implementation of a Multi-domain Feature Fusion Model Using Inherently Available Large Sensor Data, *IEEE Transactions on Industrial Informatics*, Vol. 15, No. 12, December 2019. DOI: 10.1109/TII.2019.2914975
<https://ieeexplore.ieee.org/document/8709731>
52. A. Subasi, S. Jukic, J. Kevric, Comparison of EMD, DWT and WPD for the Localization of Epileptogenic Foci using Random Forest Classifier, *Measurement*, Vol. 146, Nov 2019, pp. 846-855. <https://doi.org/10.1016/j.measurement.2019.07.026>
<https://www.sciencedirect.com/science/article/pii/S0263224119306554?via%3Dihub>
53. A. Gicic, A. Subasi, Credit scoring for a microcredit data set using the synthetic minority oversampling technique and ensemble classifiers, *Expert Systems*, 36(2), April 2019, e12363. <https://doi-org.ezproxy.utu.fi/10.1111/exsy.12363>
<https://onlinelibrary.wiley.com/doi/pdf/10.1111/exsy.12363>
54. A. Subasi, J. Kevric, A. Canbaz, Epileptic seizure detection using hybrid machine learning methods, *Neural Computing Applications*, January 2019, Volume 31, Issue 1, pp 317-325, <http://dx.doi.org/10.1007/s00521-017-3003-y>
<https://link.springer.com/article/10.1007/s00521-017-3003-y>
55. A. Subasi A. Ahmed, E. Alickovic, A. Rashik Hassan, Effect of photic stimulation for migraine detection using random forest and discrete wavelet transform, *Biomedical Signal Processing and Control*, Volume 49, March 2019, Pages 231-239. <https://doi.org/10.1016/j.bspc.2018.12.011>
<https://www.sciencedirect.com/science/article/abs/pii/S1746809418303100>
56. S. M. Qaisar, D. Sidiya, M. Akbar, & A. Subasi, (2018). An Event-Driven Multiple Objects Surveillance System, *International journal of electrical and computer engineering systems*, 9(1), 35-44. <https://hrcak.srce.hr/214198>
57. Akif Yaman, Abdulhamit Subasi, Frank Rattay, Comparison of Random Subspace and Voting Ensemble Machine Learning Methods for Face Recognition, *Symmetry* 2018, 10, 651. <https://doi.org/10.3390/sym10110651>

- <https://www.mdpi.com/2073-8994/10/11/651/htm>
58. D. Keco, A. Subasi, J. Kevric, Cloud Computing-Based parallel genetic algorithm method for gene selection in cancer classification, *Neural Computing Applications*, 2018, 30(5), pp. 1601-1610.
<https://doi.org/10.1007/s00521-016-2780-z>
<https://link.springer.com/article/10.1007%2Fs00521-016-2780-z>
 59. V. Ulke, A. Sahin, A. Subasi, A Comparison of Time Series and Machine Learning Models for Inflation Forecasting: Empirical Evidence from the USA, *Neural Computing Applications*, 2018, 30(5), pp. 1519-1527, DOI: 10.1007/s00521-015-2103-9.
<https://link.springer.com/article/10.1007/s00521-016-2766-x>
 60. H. Siljak, A. Subasi, Berthil Cepstrum: A Novel Vibration Analysis Method based on Marginal Hilbert Spectrum Applied to Artificial Motor Aging, *Journal of Electrical Engineering*, June 2018, Volume 100, Issue 2, pp 1039–1046.
<https://link.springer.com/article/10.1007/s00202-017-0566-7>
 61. E. Alickovic, A. Subasi, Ensemble SVM Method for Automatic Sleep Stage Classification, *IEEE Transactions on Instrumentation and Measurement*, Vol. 67, No. 6, June 2018.
<https://ieeexplore.ieee.org/document/8292946>
 62. H. Siljak, A. Subasi, B. R. Upadhyaya, Hardware Implementation of Auto-mutual Information Function for Condition Monitoring, *Computers & Electrical Engineering*, Vol. 66, Feb. 2018, pp. 30-39.
<https://www.sciencedirect.com/science/article/pii/S0045790617325806>
 63. E. Alickovic, J. Kevric, A. Subasi, “Performance evaluation of empirical mode decomposition, discrete wavelet transform, and wavelet packed decomposition for automated epileptic seizure detection and prediction, *Biomedical Signal Processing and Control*, Volume 39, January 2018, Pages 94-102.
<https://www.sciencedirect.com/science/article/abs/pii/S1746809417301544>
 64. J. Kevric, S. Jukic, A. Subasi, “An Effective Combining Classifier Approach Using Tree Algorithms for Network Intrusion Detection”, *Neural Computing Applications*, December 2017, Volume 28, Supplement 1, pp 1051–1058, DOI: 10.1007/s00521-016-2418-1.
<https://link.springer.com/article/10.1007/s00521-016-2418-1>
 65. A. R. Hassan, A. Subasi, A decision support system for automated identification of sleep stages from single-channel EEG signals, *Knowledge Based Systems*, Vol. 128, 15 July 2017, pp. 115-124.
<https://www.sciencedirect.com/science/article/abs/pii/S095070511730206X>
 66. E. Alickovic, A. Subasi, Breast cancer diagnosis using GA feature selection and Rotation Forest, *Neural Computing and Applications*, April 2017, 28(4), 753-763.
<https://link.springer.com/article/10.1007/s00521-015-2103-9>
 67. J. Kevric, A. Subasi, Comparison of Signal Decomposition Methods in Classification of EEG Signals for Motor-imagery BCI System, *Biomedical Signal Processing and Control* 31 (2017) 398–406.
<https://www.sciencedirect.com/science/article/abs/pii/S1746809416301331>
 68. A. R. Hassan, A. Subasi, Automatic identification of epileptic seizures from EEG signals using linear programming boosting, *Computer Methods and Programs in Biomedicine*, 136, November 2016, 65–77.
<https://www.sciencedirect.com/science/article/pii/S0169260716304928>
 69. S. Cankurt, A. Subasi, “Tourism demand modelling and forecasting using data mining techniques in multivariate time series: A case study in Turkey”, *Turkish Journal of Electrical Engineering & Computer Sciences*, 24(5): 3388 – 3404, Sept. 2016.
<https://journals.tubitak.gov.tr/elektrik/abstract.htm?id=18985>
 70. Z. Masetic, A. Subasi, Congestive Heart Failure Detection using Machine Learning Methods, *Computer Methods and Programs in Biomedicine*, July 2016, Volume 130, Pages 54–64.
<https://www.sciencedirect.com/science/article/pii/S0169260715303369>
 71. E. Alickovic, A. Subasi, Medical Decision Support System for Diagnosis of Heart Arrhythmia using DWT and Random Forests Classifier, *Journal of Medical Systems*, April 2016, vol. 40, pp. 108.
<https://link.springer.com/article/10.1007%2Fs10916-016-0467-8>

72. M. R. Bozkurt, A. Subasi, E. Koklukaya, M. Yilmaz, “Comparison of AR parametric methods with sub-space-based methods for EMG signal classification using stand-alone and merged neural network models”, *Turkish Journal of Electrical Engineering & Computer Sciences*, 24: 1547 – 1559, April 2016.
<http://journals.tubitak.gov.tr/elektrik/issues/elk-16-24-3/elk-24-3-61-1309-1.pdf>
73. E. Kremic, A. Subasi, “Performance of Random Forest and SVM in Face Recognition”, *International Arab Journal of Information Technology*, Vol 13, No 2, March 2016.
<http://www.ccis2k.org/iajit/PDF/Vol.13,%20No.2/8468.pdf>
74. H. Sahin, A. Subasi, Classification of the Cardiotocogram Data for Anticipation of Fetal Risks Using Machine Learning Techniques, *Applied Soft Computing*, Volume 33, August 2015, Pages 231–238.
<https://www.sciencedirect.com/science/article/pii/S1568494615002653>
75. E. Gokgoz, A. Subasi, “Comparison of decision tree algorithms for EMG signal classification using DWT”, *Biomedical Signal Processing and Control*, 18, April 2015, 138–144.
<https://www.sciencedirect.com/science/article/pii/S1746809414002006>
76. E. Alickovic, A. Subasi, “Effect of Multiscale PCA de-noising in ECG beat classification for diagnosis of cardiovascular diseases”, *Circuits Systems and Signal Processing*, Feb. 2015, Vol. 34, Issue 2, 513-533.
<https://link.springer.com/article/10.1007/s00034-014-9864-8>
77. A. Subasi, A decision support system for Diagnosis of Neuromuscular Disorders using DWT and Evolutionary Support Vector Machines, *Signal, Image and Video Processing*, Vol. 9, Issue 2, Feb. 2015, Page 399-408. DOI: <https://doi-org.ezproxy.utu.fi/10.1007/s11760-013-0480-z>
<https://link.springer.com/article/10.1007/s11760-013-0480-z>
78. N. Dogru, A. Subasi, “Comparison of clustering techniques for traffic accident detection”, *Turkish Journal of Electrical Engineering & Computer Sciences*, 23: 2124 – 2137, Dec. 2015.
<http://journals.tubitak.gov.tr/elektrik/issues/elk-15-23-sup.1/elk-23-sup.1-7-1304-234.pdf>
79. J. Kevric, A. Subasi, “The Effect of Multiscale PCA De-noising in Epileptic Seizure Detection”, *Journal of Medical Systems*, 38(10):131, 1-13, 2014.
<https://link.springer.com/article/10.1007/s10916-014-0131-0>
80. H. Šiljak, A. Subasi “A novel approach to Hurst analysis of motor vibration data in aging processes”, *Journal of Vibroengineering*, Vol. 16, Issue 5, 2014, p. 2250-2255.
<https://www.jvejournal.com/article/15187>
81. E. Gokgoz, A. Subasi, “Effect of Multiscale PCA de-noising on EMG signal classification for Diagnosis of Neuromuscular Disorders”, *Journal of Medical Systems*, 38(4):31,1-10, April 2014.
<https://www.sciencedirect.com/science/article/abs/pii/S1746809414002006>
82. H. Šiljak, A. Subasi, “Fourier spectrum related properties of vibration signals in accelerated motor aging applicable for age determination”, *Maintenance and Reliability 2014*; 16 (4): 616–621.
<http://yadda.icm.edu.pl/yadda/element/bwmeta1.element.baztech-70574567-c684-4533-b6de-dacb4fee2cb>
83. A. Subasi, “Classification of EMG Signals Using PSO optimized SVM for Diagnosis of Neuromuscular Disorders”, *Computers in Biology and Medicine* 43 (2013) 576–586.
<https://www.sciencedirect.com/science/article/pii/S0010482513000401>
84. A. Subasi, “Medical decision support system for diagnosis of neuromuscular disorders using DWT and fuzzy support vector machines”, *Computers in Biology and Medicine* 42, 806–815, 2012.
<https://www.sciencedirect.com/science/article/pii/S0010482512000960>
85. A. Subasi, “Classification of EMG Signals Using Combined Features and Soft Computing Techniques”, *Applied Soft Computing*, 12, 2188–2198, 2012.
<https://www.sciencedirect.com/science/article/pii/S1568494612001330>
86. S. B. Akben, A. Subasi, D. Tuncel, “Analysis of repetitive flash stimulation frequencies and record periods to detect migraine using artificial neural network”, *Journal of Medical Systems*, 36(2), 925-931, 2012.
<https://link.springer.com/article/10.1007/s10916-010-9556-2>
87. S. B. Akben, A. Subasi, D. Tuncel, “Analysis of EEG Signals under Flash Stimulation for Migraine and Epileptic Patients”, *Journal of Medical Systems*, 35(3), 437-443, 2011.
<https://link.springer.com/article/10.1007/s10916-009-9379-1>

88. A. Subasi, A. S. Yilmaz, K. Tufan, “Detection of Generated and Measured Transient Power Quality Events Using Teager Energy Operator”, *Energy Conversion and Management*, 52, 1959–1967, 2011.
<https://www.sciencedirect.com/science/article/pii/S0196890410005066>
89. **A. Subasi**, M. I. Gürsoy, “Comparison of PCA, ICA and LDA in EEG signal classification using DWT and SVM”, *Expert Systems with Applications*, 37, 8659–8666, 2010.
<https://www.sciencedirect.com/science/article/pii/S0957417410005695>
90. **A. Subasi**, M. K. Kiyimik, “Muscle Fatigue Detection in EMG Using Time–Frequency Methods, ICA and Neural Networks”, *Journal of Medical Systems*, Volume 34, Number 4, 777–785, 2010.
<https://link.springer.com/article/10.1007%2Fs10916-009-9292-7>
91. **A. Subasi**, A. S. Yilmaz and H. Binici, “Prediction of early heat of hydration of plain and blended cements using neuro-fuzzy modelling techniques”, *Expert Systems with Applications* 36, 4940–4950, 2009.
<https://www.sciencedirect.com/science/article/pii/S0957417408003424>
92. A. Eren, **A. Subasi**, O. Coskun, “A decision support system for telemedicine through the mobile telecommunications platform”, *Journal of Medical Systems*, 32, 31–35, 2008.
<https://link.springer.com/article/10.1007/s10916-007-9104-x>
93. **A. Subasi**, “EEG signal classification using wavelet feature extraction and a mixture of expert model”, *Expert Systems with Applications*, 32, 1084–1093, 2007.
<https://www.sciencedirect.com/science/article/pii/S0957417406000844>
94. **A. Subasi**, “Selection of Optimal AR Spectral Estimation Method for EEG Signals Using Cramer-Rao Bound”, *Computers in Biology and Medicine*, 37, 183 – 194, 2007.
<https://www.sciencedirect.com/science/article/pii/S0010482506000023>
95. **A. Subasi**, “Application of adaptive neuro-fuzzy inference system for epileptic seizure detection using wavelet feature extraction”, *Computers in Biology and Medicine*, 37, 227–244, 2007.
<https://www.sciencedirect.com/science/article/pii/S0010482506000072>
96. A. S. Yilmaz, **A. Subasi**, M. Bayrak, V. M. Kararli, E. Ercelebi, “Application of lifting based wavelet transforms to characterize power quality events”, *Energy Conversion and Management*, 48, 112–123, 2007.
<https://www.sciencedirect.com/science/article/pii/S0196890406001634>
97. **A. Subasi**, M. Yilmaz and H. R. Ozcalik, “Classification of EMG signals using wavelet neural network”, *Journal of Neuroscience Methods*, 156, 360–367, 2006.
<https://www.sciencedirect.com/science/article/pii/S0165027006001440>
98. **A. Subasi**, “Automatic detection of epileptic seizure using dynamic fuzzy neural networks”, *Expert Systems with Applications*, 31, 320–328, 2006.
<https://www.sciencedirect.com/science/article/pii/S0957417405002186>
99. **A. Subasi**, E. Ercelebi, A. Alkan, E. Koklukaya, “Comparison of subspace-based methods with AR parametric methods in epileptic seizure detection”, *Computers in Biology and Medicine*, 36, 195–208, 2006.
<https://www.sciencedirect.com/science/article/pii/S0010482504001441>
100. E. Ercelebi, **A. Subasi**, “Robust multi bit and high quality audio watermarking using pseudo-random sequences”, *Computers and Electrical Engineering*, 31, 525–536, 2005.
<https://www.sciencedirect.com/science/article/pii/S0045790605000960>
101. A. Alkan, E. Koklukaya, **A. Subasi**, “Automatic Seizure Detection in EEG Using Logistic Regression and Artificial Neural Network”, *Journal of Neuroscience Methods*, 148, 167–176, 2005.
<https://www.sciencedirect.com/science/article/pii/S0165027005001342>
102. **A. Subasi**, A. Alkan, E. Koklukaya, M. K. Kiyimik, “Wavelet Neural Network Classification of EEG Signals by using AR model with MLE Preprocessing”, *Neural Networks*, 18/7, 985–997, 2005.
<https://www.sciencedirect.com/science/article/pii/S0893608005000444>
103. **A. Subasi**, “Epileptic Seizure Detection Using Dynamic Wavelet Network”, *Expert Systems with Applications*, 29, 343–355, 2005.
<https://www.sciencedirect.com/science/article/pii/S0957417405000606>
104. **A. Subasi**, E. Ercelebi, “Classification of EEG Signals Using Neural Network and Logistic Regression”, *Computer Methods and Programs in Biomedicine*, 78(2), 87–99 2005.
<https://www.sciencedirect.com/science/article/pii/S0169260705000246>

105. **A. Subasi**, “Automatic recognition of alertness level from EEG by using neural network and wavelet coefficients”, *Expert Systems with Applications*, 28, 701–711, 2005.
<https://www.sciencedirect.com/science/article/pii/S0957417404001745>
106. **A. Subasi**, M.K. Kiyimik, M. Akin, O. Erogul, “Automatic recognition of vigilance state by using wavelet-based artificial neural network”, *Neural Computing Applications*, 14(1), 45-55, 2005.
<https://link.springer.com/article/10.1007/s00521-004-0441-0>
107. **A. Subasi**, E. Koklukaya, “Performance Improvement of Dynamic Buffered ATM Switch”, *Computers & Electrical Engineering*, 31, 152-165, 2005.
<https://www.sciencedirect.com/science/article/pii/S0045790605000455>
108. M.K. Kiyimik., M. Akin., **A. Subasi**, “Automatic recognition of alertness level by using wavelet transform and artificial neural network “ *Journal of Neuroscience Methods*, 139, 231-240, 2004.
<https://www.sciencedirect.com/science/article/pii/S0165027004001724>

BOOKS

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8. **A. Subasi**, **Artificial Intelligence Lab Manual**, Effat University, 2019.
9. **A. Subasi**, **Machine Learning Lab Manual**, Effat University, 2018.
10. **A. Subasi**, **Data Mining Lab Manual**, Effat University, 2016
11. **A. Subasi**, **Bioinformatics Lab Manual**, Effat University, 2015
12. **A. Subaşı**, S. B. Akben, **Digital Electronics Applications (In Turkish)**, Menekşe Press, 2010.
13. **A. Subaşı**, S. B. Akben, **Microprocessor Applications (In Turkish)**, Menekşe Press, 2009.
14. C. Koraslı, **A. Subasi**, “6802 Microprocessor: A Study Course with Applications”, 1994, published by University of Gaziantep.

Book Chapters

1. Abdulhamit Subasi, Tuba Nur Subasi, Saeed Mian Qaisar, **ECG signal Analysis Using Dual-Tree Complex Wavelet Transform and Bagging Ensemble Machine Learning**, in Eds: Ganesh R Naik, **Cardio-Respiratory Signal Processing and Classification: Trends, Applications, and Future Directions**, CRC, 2024.
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26. Muhammed Enes Subasi, Sohan Patnaik, Abdulhamit Subasi, ***Optical Coherence Tomography Image Classification for Retinal Disease Detection using Artificial Intelligence***, in ***Applications of Artificial Intelligence in Healthcare and Biomedicine***, Elsevier, 2024, ISBN: 9780443223082.
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33. Abdulhamit Subasi, Muhammed Enes Subasi, Emrah Hancer, ***Artificial intelligence (AI)-enabled signal processing-based methods for detection of epileptic seizures using EEG signals***, in ***Artificial Intelligence enabled Signal Processing based Models for Neural Information Processing***, CRC press, 2024.
34. Abdulhamit Subasi, Tuba Nur Subasi, Oznur Ozaltin, ***Automated emotion recognition from EEG signals using signal processing and machine learning techniques***, in ***Artificial Intelligence enabled Signal Processing based Models for Neural Information Processing***, CRC press, 2024.
35. Abdulhamit Subasi, and Muhammed Enes Subasi. "***Digital twins in healthcare and biomedicine***." In ***Artificial Intelligence, Big Data, Blockchain and 5G for the Digital Transformation of the Healthcare Industry***. Academic Press, 2024. 365-401.

36. Abdulhamit Subasi, Tuba Nur Subasi, Ozgur Ozaltin, *Artificial Intelligence in diagnosis of neural disorders using bio signals and Imaging* in **Advances in Artificial Intelligence: Biomedical Engineering Applications in Signals and Imaging**, Elsevier, 2023.
37. Ozgur Ozaltin, Ozgur Yeniay, Abdulhamit Subasi, *Artificial Intelligence based Brain Hemorrhage Detection*, in **Accelerating Strategic Changes for Digital Transformation in the Healthcare**, Elsevier, 2023.
38. Abdulhamit Subasi, Saeed Mian Qaisar, *Signal Acquisition Preprocessing and Feature Extraction Techniques for Biomedical Signals*, in **Advances in Non-Invasive Biomedical Signal Sensing and Processing with Machine Learning**, Springer, 2023, ISBN: 9783031232381.
39. Nithish Kannan, Abdulhamit Subasi, (2023). *Smart factories of Industry 4.0: determination of the effective smartphone position for human activity recognition using deep learning*. In **Advanced Signal Processing for Industry 4.0, Volume 2: Security issues, management and future opportunities** (pp. 3-1). Bristol, UK: IOP Publishing.
40. Abdulhamit Subasi, Ozgur Ozaltin, Arka Mitra, M. Enes Subasi, Akila Sariirete, *Trustworthy Artificial Intelligence in Healthcare* in **Accelerating Strategic Changes for Digital Transformation in the Healthcare**, Elsevier, 2023.
41. Subasi, Abdulhamit. "Introduction to artificial intelligence techniques for medical image analysis." *Applications of Artificial Intelligence in Medical Imaging*. Academic Press, 2023. 1-49.
42. Aayush Rajput, Abdulhamit Subasi, *Lung Cancer Detection from Histopathological Lung Tissue Images using Deep Learning*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
43. Abhranta Panigrahi, Abdulhamit Subasi, *MRI Based Automated Brain Tumor Detection Using Deep Learning Techniques*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
44. Abdulhamit Subasi, Aayush Dinesh Kandpal, Kolla Anant Raj, Ulas Bagci, *Breast Cancer Detection from Mammograms using Artificial Intelligence*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
45. Omkar Modi, Abdulhamit Subasi, *Breast Tumor Detection in Ultrasound Images Using Artificial Intelligence*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
46. Abdulhamit Subasi, Saqib Ahmed Qureshi, *Artificial intelligence-based skin cancer diagnosis*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
47. Aykut Diker, Abdullah Elen, Abdulhamit Subasi, *Brain stroke detection from CT images using deep learning algorithms*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
48. Ashutosh Varshney, Abdulhamit Subasi, *A deep learning approach for COVID-19 detection from CT scans*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
49. Siddhesh Shelke, Abdulhamit Subasi, *Detection and Classification of Diabetic Retinopathy Lesions using Deep Learning*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
50. Aayush Rajput, Abdulhamit Subasi, *Automated detection of colon cancer using deep learning*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
51. Abdullah Elen, Aykut Diker, Abdulhamit Subasi, *Brain Hemorrhage Detection in CT Images by Deep Learning*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
52. Sohan Patnaik, Abdulhamit Subasi, *Artificial Intelligence-based Retinal Disease Classification using OCT Images*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.

53. Emrah Hancer, Abdulhamit Subasi, *Diagnosis of Breast Cancer from Histopathological Images with Deep Learning Architectures*, in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
54. Manav Nitin Kapadnis, Abhijit Bhattacharyya, Abdulhamit Subasi, “*Artificial Intelligence in Alzheimer's Disease Detection*” in Editor: Abdulhamit Subasi, **Applications of Artificial Intelligence in Medical Imaging**, Elsevier, 2023, ISBN: 9780443184505.
55. Orhan Yaman, Sengul Dogan, Turker Tuncer, Abdulhamit Subasi, “*Skin cancer classification model based on hybrid deep feature generation and iterative mRMR*”. In **Computational Intelligence Based Solutions for Vision Systems**. IOP Publishing, 2022, ISBN: 978-0-7503-4819-5.
56. Abdulhamit Subasi, Elina Kontio, Mojtaba Jafaritadi, “*Deep learning approaches for the cardiovascular disease diagnosis using smartphone*”, in **5G IoT and Edge Computing For Smart Healthcare** Elsevier Series: **Intelligent Data-Centric Systems**, Elsevier, 2022.
57. Abdulhamit Subasi, Siba Smarak Panigrahi, Bhalchandra Sunil Patil, M. Abdullah Canbaz, Riku Klén, “*Advanced pattern recognition tools for disease diagnosis*”, in Editors: Akash Bhoi, Victor de Albuquerque, Samarendra Sur, Paolo Barsocchi, **5G IoT and Edge Computing For Smart Healthcare** Elsevier Series: **Intelligent Data-Centric Systems**, Elsevier, 2022. ISBN: 9780323905480
58. A. Subasi, M. N. Kapadnis, A. K. Bulbul, “*Alzheimer's disease detection using artificial intelligence*”, in Editors: Anitha Pillai, Bindu Menon, **Augmenting Neurological Disorder Prediction and Rehabilitation Using Artificial Intelligence** (pp. 53-74). Academic Press, 2022. ISBN: 9780323886260
59. Turker Tuncer, Sengul Dogan, Fatih Ertam, Abdulhamit Subasi, *Computational Intelligence in Surface Electromyogram Signal Classification* in Eds: Varun Bajaj, Irshad Ahmad Ansari, **High performance computing for Intelligent Medical Systems**, IOP, 2021.
60. Abdulhamit Subasi, Saqib Ahmed Qureshi, Tayeb Brahimi, Akila Serireti, *COVID-19 Detection from X-Ray Images using Artificial Intelligence* in **Artificial Intelligence and Big Data Analytics for Smart Healthcare**, Elsevier, 2021.
61. Qaisar, S. M., Bashawyah, D. A., Alsharif, F., & Subasi, A. *A comprehensive review on the application of machine learning techniques for analyzing the smart meter data*, in Eds: Kamal Kant Hiran, Deepak Khazanchi, Ajay Kumar Vyas and Sanjeevikumar Padmanaban, **Machine Learning for Sustainable Development**, 9, 53, 2021.
62. Abdulhamit Subasi, *Disease Prediction using Artificial Intelligence: A case study on Epileptic Seizure Prediction* in **Enhanced Telemedicine and e-Health: Advanced IoT Enabled Soft Computing Framework**, Springer, 2021.
63. Abdulhamit Subasi, *Diagnosis of Neuromuscular Disorders using Machine Learning Techniques*, in Editor(s): Varun Bajaj, G R Sinha, **Analysis of Medical Modalities for Improved Diagnosis in Modern Healthcare**, CRC Press, Taylor & Francis, 2021.
64. Emina Aličković, Abdulhamit Subasi, *Early Detection of Parkinson Disease and SWEDD using SMOTE and Ensemble Classifier*, in Editor(s): Varun Bajaj, G R Sinha, **Computer-aided Diagnosis and Design Methods for Biomedical Applications**, CRC Press, Taylor & Francis, 2021.
65. Abdulhamit Subasi, Arka Mitra, Fatih Ozyurt, Turker Tuncer, *Automated Covid-19 detection from CT images using deep learning* in Editor(s): Varun Bajaj, G R Sinha, **Computer-aided Diagnosis and Design Methods for Biomedical Applications**, CRC Press, Taylor & Francis, 2021.
66. Abdulhamit Subasi, Turker Tuncer, Sengul Dogan, Dahiru Tanko, *Local Binary Pattern Based Feature Extraction and Machine Learning for Epileptic Seizure Prediction and Detection*, in Editor(s): Varun Bajaj, G R Sinha, **Modelling and Analysis of Active Biopotential Signals in Healthcare-Volume 2**, IOP, 2020.
67. Abdulhamit Subasi, Saeed Mian Qaisar, *Heartbeat Classification using Parametric and Time-Frequency Methods*, in Editor(s): Varun Bajaj, G R Sinha, **Modelling and Analysis of Active Biopotential Signals in Healthcare-Volume 2**, IOP, 2020.
68. Saeed Mian Qaisar, Abdulhamit Subasi, *Cloud-Based Cardiac Health Monitoring using Event-Driven ECG Processing and Ensemble Classification Techniques*, in Editor(s): Varun Bajaj, G R Sinha, **Modelling and Analysis of Active Biopotential Signals in Healthcare-Volume 1**, IOP, 2020.

69. Abdulhamit Subasi, *Use of Artificial Intelligence in Alzheimer Disease Detection* in Editor(s): Deb-malya Barh, **Artificial Intelligence in Precision Health**, Academic Press, 2020, Pages 257-278, ISBN 9780128171332
70. Subasi A. (2019) *Biomedical Signal Analysis and Its Usage in Healthcare*. In: Paul S. (eds) **Biomedical Engineering and its Applications in Healthcare**. Springer, Singapore.
71. Abdulhamit Subasi, *Electromyogram Controlled Assistive Devices* in Bioelectronics and Medical Devices, in Editors: Kunal Pal, Heinz-Bernhard Kraatz, Anwasha Khasnobish, Sandip Bag, Indranil Banerjee, Usha Kuruganti, Woodhead Publishing, Elsevier Ltd., United Kingdom, 2019, ISBN: 978-0-08-102420-1
72. Abdulhamit Subasi, *Electroencephalogram controlled assistive devices* in Bioelectronics and Medical Devices, Edited by Kunal Pal, Heinz-Bernhard Kraatz, Anwasha Khasnobish, Sandip Bag, Indranil Banerjee, Usha Kuruganti, Woodhead Publishing, Elsevier Ltd., United Kingdom, 2019, ISBN: 978-0-08-102420-1
73. Abdulhamit Subasi, Kholoud Khateeb, Tayeb Brahimi, Akila Sarirete, *Human Activity Recognition using Machine Learning Methods in a Smart Healthcare System* in “**Innovation in Health Informatics, A Smart Healthcare Primer**”, Editors: Miltiadis Lytras Anna Visvizi Akila Sarirete, ISBN: 9780128190432, Academic Press, Elsevier Inc, London, UK, 2019.
74. Abdulhamit Subasi, Lejla Bandic, Saeed Mian Qaisar, *Cloud-based health monitoring framework using smart sensors and smartphone* in “**Innovation in Health Informatics, A Smart Healthcare Primer**”, Editors: Miltiadis Lytras Anna Visvizi Akila Sarirete, ISBN: 9780128190432, Academic Press, Elsevier Inc, London, UK, 2019.
75. Emir Kremic, Abdulhamit Subasi, *Application of Video-Based Face Recognition for Mobile Security Using Machine Learning techniques* in “**Cryptographic and Information Security Approaches for Images and Videos**” Edited by S. Ramakrishnan, ISBN 9781138563841, CRC Press, December 26, 2018.

Accepted/Published Articles in non-SCI Journals (Peer-review)

1. Abdulhamit Subasi, Faria Amir, Kholoud Bagedo, Asmaa Shams, Akila Sarirete, Stock Market Prediction Using Machine Learning, *Procedia Computer Science*, Volume 194, 2021, Pages 173-179
2. Mehmet Akif Yaman, Frank Rattay, Abdulhamit Subasi, Comparison of Bagging and Boosting Ensemble Machine Learning Methods for Face Recognition, *Procedia Computer Science*, Volume 194, 2021, Pages 202-209.
3. Abdulhamit Subasi, Mohammed Balfaqih, Zain Balfagih, KhaledAlfawwaz, A Comparative Evaluation of Ensemble Classifiers for Malicious Webpage Detection, *Procedia Computer Science*, Volume 194, 2021, Pages 272-279.
4. Saeed Mian Qaisar, Futoon Alsharif, Abdulhamit Subasi, Ahmed Bensenouci, Appliance Identification Based on Smart Meter Data and Event-Driven Processing in the 5G Framework, *Procedia Computer Science*, Volume 182, 2021, Pages 103-108.
5. Abdulhamit Subasi, Bayader Kadasa, and Emir Kremic. "Classification of the Cardiotocogram Data for Anticipation of Fetal Risks using Bagging Ensemble Classifier." *Procedia Computer Science* 168 (2020): 34-39.
6. Abdulhamit Subasi, and Emir Kremic. "Comparison of Adaboost with MultiBoosting for Phishing Website Detection." *Procedia Computer Science* 168 (2020): 272-278.
7. S. M. Qaisar, A. Subasi, Efficient Epileptic Seizure Detection Based on the Event Driven Processing, *Procedia Computer Science*, Volume 163, 2019, Pages 30-34.
8. S. M. Qaisar, S. Niazi, A. Subasi, Efficient Isolated Speech to Sign Conversion Based on the Adaptive Rate Processing, *Procedia Computer Science* 163 (2019) 35–40.
9. Mohamed El-Amin and Abdulhamit Subasi. Developing a Generalized Scaling-Law for Oil Recovery Using Machine Learning Techniques, *Procedia Computer Science*, Volume 163, 2019, Pages 237-247
10. Abdulhamit Subasi, Asalah Fllatah, Kholoud Alzobidi, Tayeb Brahimi, Akila Sarirete, Smartphone-Based Human Activity Recognition Using Bagging and Boosting, *Procedia Computer Science* 163 (2019) 54–61.

11. Abdulhamit Subasi, Emine Yaman, Yara Somaily, Halah A. Alynabawi, Fatemah Alobaidi, Sumaiah Altheibani, Automated EMG Signal Classification for Diagnosis of Neuromuscular Disorders Using DWT and Bagging, *Procedia Computer Science*, Volume 140, 2018, Pages 223-229.
12. A. Subasi, D. H. Dammas, R. D. Alghamdi, R. A. Makawi, E. A. Albiety, T. Brahimi, & A. Sarirete, Sensor Based Human Activity Recognition Using Adaboost Ensemble Classifier, *Procedia Computer Science*, Volume 140, 2018, Pages 104-111.
13. A. Subasi, A. Ahmed, E. Alickovic, Effect of Flash Stimulation for Migraine Detection Using Decision Tree Classifiers, *Procedia Computer Science*, Volume 140, 2018, Pages 223-229.
14. Z. Masetic, A. Subasi, J. Azemovic, Malicious Web Sites Detection using C4.5 Decision Tree, *Southeast Europe Journal of Soft Computing*, 51, pp. 68-72, 2016.
15. Vural, Halit , Subası, Abdülhamit . "Microarray Gene Expression Data Classification Using Feature Selection and Naïve Bayes Classifier". *Balkan Journal of Electrical and Computer Engineering* 3(3) (April 2015): -. <http://dx.doi.org/10.17694/bajece.05769>
16. J. Kevric, A. Subasi, The Impact of MSPCA Signal Denoising In Real-Time Wireless Brain Computer Interface System, *Southeast Europe Journal of Soft Computing*, 4(1), 43-47, 2015.
17. H. Vural, A. Subasi, Data mining techniques to classify microarray gene expression data using gene selection by SVD and Information Gain, *Modeling of Artificial Intelligence*, 2015, Vol.(6), Is. 2, pp. 171-182
18. G. Senyurt, A. Subasi, Effects of Technical Market Indicators on Stock Market Index Direction Forecasting, *Modeling of Artificial Intelligence*, 2015, Vol.(6), Is. 2, pp. 137-149.
19. G. Senyurt, A. Subasi, Forecasting the Price Index Return and Movement Direction using Data Mining Techniques, *European Journal of Social and Human Sciences*, 2015, Vol.(6), Is. 2, pp. 94-108.
20. S. Cankurt and A. Subasi, Developing tourism demand forecasting models using machine learning techniques with trend, seasonal, and cyclic components, *Balkan Journal of Electrical & Computer Engineering*, 2015, Vol.3, No.1
21. Z. Masetic, A. Subasi, Detection of congestive heart failures using C4.5 Decision Tree, *Southeast Europe Journal of Soft Computing*, 2(2), 74-77, 2013.
22. S. Jukic, A. Subasi, Localization of the epileptogenic foci using Support Vector Machine, *Southeast Europe Journal of Soft Computing*, 2(2), 26-30, 2013.
23. E. Alickovic, A. Subasi, Usage of Simplified Fuzzy ARTMAP for improvement of classification performances, *Southeast Europe Journal of Soft Computing*, 2(2), 93-97, 2013.
24. G. Sikiric, S. Avdakovic, A. Subasi, Comparison of Machine Learning Methods for Electricity Demand Forecasting in Bosnia and Herzegovina, *Southeast Europe Journal of Soft Computing*, 2(2), 12-14, 2013.
25. D. Kečo, A. Subasi, Parallelization of genetic algorithms using Hadoop Map/Reduce, *Southeast Europe Journal of Soft Computing*, 1(2), 56-59, 2012.
26. M. A. Yaman, E. Yaman, A. Subasi, F. Rattay, "Automatic Gender Classification from Color Images Using Support Vector Machines", *International Journal of Arts & Sciences*, 4(20), 279-283, 2011.
27. E. Yaman, M. A. Yaman, A. Subasi, F. Rattay, "EMG Signal Classification Using Decision Trees and Neural Networks", *International Journal of Arts & Sciences*, 4(20), 285-292, 2011.
28. A. Subasi, "Application of classical and model-based spectral methods to describe the state of alertness in EEG", *Journal of Medical Systems*, 29(5), 473-486, 2005.
29. A. Subasi, M. K. Kiyimik, A. Alkan, E. Koklukaya, "Neural Network Classification of EEG Signals By Using AR with MLE Preprocessing For Epileptic Seizure Detection", *Mathematical and Computational Applications*, 10(1), 57-70, 2005.
30. M. K. Kiyimik, A. Subasi, H. R. Ozcalik, "Neural networks with periodogram and autoregressive spectral analysis methods in detection of epileptic seizure" *Journal of Medical Systems*, 28(6), pp.511-523, 2004.

Accepted/Published Articles in Turkish

31. S. B. Akben, A. Subası, "RSA ve Eliptik Eğri Algoritmasının Performans Karşılaştırması", *KSÜ Fen ve Mühendislik Dergisi*, 8(1), 35-40, 2005.
32. M. Aksu, A. Subası, "Üçüncü Nesil (3G) Gezgin Telefonlar İçin Uygulama Geliştirme", *KSÜ Fen ve Mühendislik Dergisi*, 8(2), 53-61, 2005.

33. A. Subasi, A. Alkan, E. Koklükaya, "EEG İşaretlerinin Dalgacık Sinir Ağı İle Sınıflandırılması", *Teknoloji Dergisi*, 7(1), 71-80, 2004.
34. M.K. Kıymık, A. Subaşı, A. Dizibüyük, M.S. Özer, "Darbeli Doppler Laminer Kan Akış Sinyal Simülasyonuna STFT ve AR Spektral Analizlerinin Uygulanması", *KSÜ Fen ve Mühendislik Dergisi* 5(2), pp. 14-27, 2002.

CONFERENCES

International conferences:

1. A. Subasi, Artificial Intelligence in Brain Computer Interface. In 2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA) (pp. 1-7). IEEE, June 2022.
2. M. S. Gaso, S. Cankurt and A. Subasi, "Electromyography Signal Classification Using Deep Learning," 2021 16th International Conference on Electronics Computer and Computation (ICECCO), 2021, pp. 1-6, doi: 10.1109/ICECCO53203.2021.9663803.
3. Abdulhamit Subasi, Emine Yaman, Diagnosis of Neuromuscular Disorders using TQWT and Random Subspace Ensemble Classifier, CMBEBIH 2021.
4. Abdulhamit Subasi, Emir Kremic, Shahad Algebsani, Jawaher Almaasrani, Wafa Alghamdi, Najwan Abdulaziz, Intrusion Detection in Smart Healthcare Using Bagging Ensemble Classifier, CMBEBIH 2021.
5. Mohamed F. El-Amin; Abdulhamit Subasi, Predicting Turbulent Buoyant Jet Using Machine Learning Techniques, 2020 2nd International Conference on Computer and Information Sciences (ICCIS), 13-15 Oct. 2020, IEEE.
6. Mohamed F. El-Amin; Abdulhamit Subasi, Forecasting a Small-Scale Hydrogen Leakage in Air using Machine Learning Techniques, 2020 2nd International Conference on Computer and Information Sciences (ICCIS), 13-15 Oct. 2020, IEEE.
7. Abdulhamit Subasi, Saeed M. Qaisar, Malak Al-Nory, Khulood A. Rambo, Intrusion Detection in Smart Grid Using Bagging Ensemble Classifiers, The 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Bucharest, Romania, September 29 - October 2, 2019.
8. Saeed Mian Qaisar, Abdulhamit Subasi, Adaptive Rate EEG Signal Processing for Epileptic Seizure Detection, 13th SampTA (Sampling Theory and Applications) conference, Bordeaux, France, July 8-12 2019.
9. Abdulhamit Subasi, Selcuk Cankurt, Prediction of default payment of credit card clients using Data Mining Techniques, International Engineering Conference (IEC), 23-25 June 2019, Erbil, Iraq.
10. Doaa A Bashawyah, Abdulhamit Subasi, Power Quality Event Detection Using FAWT and Bagging Ensemble Classifier, 19th IEEE International Conference on Environment and Electrical Engineering, 11-14 June 2019, Genoa, Italy.
11. Alickovic, Emina, Abdulhamit Subasi, and Alzheimer's Disease Neuroimaging Initiative. "Automatic detection of alzheimer disease based on histogram and random forest." In International Conference on Medical and Biological Engineering, pp. 91-96. Springer, Cham, 2019.
12. Subasi, A., & Yaman, E. (2019, May). EMG signal classification using discrete wavelet transform and rotation forest. In International Conference on Medical and Biological Engineering (pp. 29-35). Springer, Cham.
13. Alickovic, E., & Subasi, A. (2019, May). Normalized neural networks for breast cancer classification. In International conference on medical and biological engineering (pp. 519-524). Springer, Cham.
14. S. M. Qaisar, S. Niazi, D. Dallet, A. Subasi, An Adaptive Rate Processing and Classification for Efficient Isolated Speech to Sign Conversion The 16th International Learning and Technology Conference (L&T 2019), 3-4 March 2019, Jeddah, Saudi Arabia.
15. Saeed Mian Qaisar, Abdulhamit Subasi, Event Driven EEG Signal Processing for Epileptic Seizure Detection, The 16th International Learning and Technology Conference (L&T 2019), 3-4 March 2019, Jeddah, Saudi Arabia.
16. Saeed Mian Qaisar, Abdulhamit Subasi, O. Mousa, K.A. Rambo , An Event Driven System for Efficient Management of Remote Smart Grid Energy Storage, Saudi Arabia Smart Grid Conference, 11-13 Dec 2018, Jeddah, Saudi Arabia.

17. Abdulhamit Subasi, Emine Yaman, Yara Somaily, Halah A. Alynabawi, Fatemah Alobaidi, Sumaiah Altheibani, Automated EMG Signal Classification using DWT and Bagging, Complex Adaptive Systems 2018 conference, November 5 - 7 2018, Chicago, IL, USA.
18. A. Subasi, A. Ahmed, E. Alickovic, Effect of Flash Stimulation for Migraine Detection Using Decision Tree Classifiers, Complex Adaptive Systems 2018 conference, November 5 - 7 2018, Chicago, IL, USA.
19. S. M. Qaisar and A. Subasi, "An Adaptive Rate ECG Acquisition and Analysis for Efficient Diagnosis of the Cardiovascular Diseases", IEEE 3rd International Conference on Signal and Image Processing, ICSIP 2018, Shenzhen, China, July 13-15, 2018 .
20. R. Johar, Saeed Mian Qaisar, A. Subasi, R. F. Kurdi, "A Raspberry Pi Based Event Driven Quasi Real Time Attendance Tracker", IEEE 3rd International Conference on Signal and Image Processing, ICSIP 2018, Shenzhen, China, July 13-15, 2018.
21. S. M. Qaisar, A. Subasi, W.S. Balakhsher, D. Zamzami, G. Alsharbini, M. G. Bahri and H. Arab, "Event Driven ECG Processing for Diagnosis of Cardiac Diseases", 4th International Conference on Event-Based Control, Communication and Signal Processing, EBCCSP 2018, June 27-29, 2018 Perpignan, France.
22. S.M.Qaisar, Reem Ramadan and A. Subasi, "An Event-Driven Efficient Segmentation and De-noising of Multi-Channel EEG Signals", 4th International Conference on Event-Based Control, Communication and Signal Processing, EBCCSP 2018, June 27-29, 2018 Perpignan, France.
23. Johar, R., Qaisar, S. M., Subasi, A., & Kurdi, R. F. (2018, April). An Event Driven Attendance Tracker. In 2018 21st Saudi Computer Society National Computer Conference (NCC) (pp. 1-6). IEEE.
24. A. Subasi, A. Alaskandarani, A. Alsheikh Abubakir, S. M. Qaisar, sEMG Signal Classification Using DWT and Bagging for Basic Hand Movements, 21st Saudi Computer Society National Computer Conference (NCC'2018) Riyadh, Saudi Arabia, 25-26 April 2018.
25. A. Subasi, R. Alghamdi, K. Al-Marwani, A. Kwairanga, S. M. Qaiser, M. Alnoury, Kholoud Rambo, Intrusion Detection in Smart Grid Using Data Mining Techniques, 21st Saudi Computer Society National Computer Conference (NCC'2018) Riyadh, Saudi Arabia, 25-26 April 2018.
26. Sabo, A., Qaisar, S. M., Subasi, A., & Rambo, K. A. (2018, April). An Event Driven Wireless Sensors Network for Monitoring of Plants Health and Larva Activities. In 2018 21st Saudi Computer Society National Computer Conference (NCC) (pp. 1-7). IEEE.
27. A. Subasi, S. Alzahrani, A. Aljuhani, M. Aljedani, Comparison of Decision Tree Algorithm for Spam E-mail Filtering, ICCAIS' 2018: 1st International Conference on Computer Applications & Information Security, Riyadh, Saudi Arabia, April 4-5, 2018.
28. A. Subasi, L. Alharbi, R. Madani, S. M. Qaisar, Surface EMG based Classification of basic hand movements using Rotation Forest, ASET 2018, Engineering Innovations in Healthcare International Conference, Sharjah, UAE, March 21-22, 2018.
29. M. Behri, A. Subasi, S. M. Qaisar, Comparison of Machine Learning Methods for Two Class Motor Imagery Tasks using EEG in Brain-Computer Interface, ASET 2018, Engineering Innovations in Healthcare International Conference, Sharjah, UAE, March 21-22, 2018.
30. N. Dogru, A. Subasi, Traffic Accident Detection Using Random Forest Classifier, 15th Learning and Technology Conference (L&T 2018), 25th – 26th February 2018, Jeddah, Saudi Arabia.
31. A. Subasi, M. Radhwan, R. F. Kurdi, K. Khateeb, IoT based Mobile Healthcare System for Human Activity Recognition, 15th Learning and Technology Conference (L&T 2018), 25th – 26th February 2018, Jeddah, Saudi Arabia.
32. A Subasi, E. Molah, F. Almkallawi, T. Chadhour, Intelligent Phishing Website Detection using Random Forest Classifier, International Conference on Electrical and Computing Technologies and Applications (ICECTA), 21-23 Nov. 2017, Ras Al Khaimah, UAE.
33. R. Kurdi, M. Aljehani, A. Subasi, S. M. Qaisar, Cloud Computing Based Healthcare Information Systems: A proposal for the Kingdom of Saudi Arabia, International Conference on Electrical and Computing Technologies and Applications (ICECTA), 21-23 Nov. 2017, Ras Al Khaimah, UAE.
34. R. Kurdi, F. Hersi, S. Bahagari, M. Kaosar, S. M. Qaisar, A. Subasi, A Mobile Fingerprint Authentication in Saudi Arabian Call Centers, International Conference on Electrical and Computing Technologies and Applications (ICECTA), 21-23 Nov. 2017, Ras Al Khaimah, UAE.

35. A. Ramović, L. Bandić, J. Kevrić, E. Germović, A. Subasi (2017) Wavelet and Teager Energy Operator (TEO) for Heart Sound Processing and Identification. In: Badnjevic A. (eds) CMBEBIH 2017, 16 – 18 March, 2017, Sarajevo, Bosnia and Herzegovina. IFMBE Proceedings, vol 62. Springer, Singapore.
36. A. A. Abdullah, A. Subasi, S.M. Qaisar (2017) Surface EMG Signal Classification by Using WPD and Ensemble Tree Classifiers. In: Badnjevic A. (eds) CMBEBIH 2017, 16 – 18 March, 2017, Sarajevo, Bosnia and Herzegovina, IFMBE Proceedings, vol 62. Springer, Singapore.
37. A. Subasi, E. Alickovic, J. Kevric, Diagnosis of Chronic Kidney Disease by Using Random Forest, In: Badnjevic A. (eds) CMBEBIH 2017, 16 – 18 March, 2017, Sarajevo, Bosnia and Herzegovina, IFMBE Proceedings, vol 62. Springer, Singapore.
38. E. Džaferović, S. Vrtačić, L. Bandić, J. Kevric, A. Subasi, S. M. Qaisar, Cloud-based Mobile Platform for EEG Signal Analysis, The 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA 2016), 6-8 Dec. 2016, Ras Al Khaimah, UAE.
39. S. M. Qaisar, A. Alhazmi, N. Al-Yamani, S. Mohammad, A. Subasi, An Event Driven Surveillance System, The 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA 2016), 6-8 Dec. 2016, Ras Al Khaimah, UAE.
40. N. Mehurić, A. Subasi, Evaluation of Data Mining Techniques in Prediction of Customer Shopping Categories, Fourth Regional Conference on Soft Computing, 2015, Sarajevo, Bosnia and Herzegovina.
41. E. Džaferovic, A. Subasi, Android Application For Recording and Transmitting EEG Signals to A Cloud, Fourth Regional Conference on Soft Computing, 2015, Sarajevo, Bosnia and Herzegovina.
42. N. Arnaut, A. Subasi, Sleep stage classification using AR Burg and C4.5 classifier, The 1st Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2015), 13-15 March 2015, Sarajevo, Bosnia and Herzegovina.
43. E. Podrug, A. Subasi, Surface EMG pattern recognition by using DWT feature extraction and SVM classifier, The 1st Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2015), 13-15 March 2015, Sarajevo, Bosnia and Herzegovina.
44. K. Hajdarevic, S. Konjicija, A. Subasi, A Low Energy APRS-IS Client-Server Infrastructure Implementation using Raspberry Pi, 22nd Telecommunications Forum (TELFOR), 2014, At Belgrade, Serbia.
45. E. Alickovic, Z. Masetic, A. Subasi; The Effect of Nonlinear Function on Stochastic Processes with Standard Normal Distribution, The International Conference on e-Education, Mostar, Sep. 2014, Vol. 1, No. 1, Page 141 – 145.
46. K. Hajdarevic, S. Konjicija, A. Subasi, Svxlink VOIP Implementation Using Raspberry Pi in Education and Disaster Relief Situations, BIHTEL2014, Sarajevo, Bosnia and Herzegovina; 10/2014
47. E. Alickovic, A. Subasi, Comparison of decision tree methods for breast cancer diagnosis, The 6th International Conference on Information Technology (ICIT 2013), Amman, Jordan, May. 2013
48. E. Kremic, A. Subasi, and K. Hajdarevic, Face Recognition Implementation for Client Server Mobile Application using PCA, Proceedings of the ITI 2012, 34th Int. Conf.on Information Technology Interfaces, June 25-28, 2012, Cavtat, Croatia.
49. J. Kevric, A. Subasi, Classification of EEG signals for epileptic seizure prediction using ANN, ISSD'12, Third International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, 2012.
50. H. Sahin, A. Subasi, Classification of fetal state from the cardiogram recordings using ANN and simple logistic, ISSD'12, Third International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, 2012.
51. E. Alickovic, A Subasi, Medical decision support system for diagnosis of cardiovascular diseases using DWT and k-NN, ISSD'12, Third International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, 2012.
52. S. Keleş, A. Subasi, Classification of EMG signals using decision tree methods, ISSD'12, Third International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, 2012.
53. N. Dogru, A. Subasi, Traffic accident detection by using machine learning methods, ISSD'12, Third International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, 2012.
54. G. Senyurt, A. Subasi, Stock market price index return forecasting using ANN, ISSD'12, Third International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, 2012.

55. G. Senyurt, A. Subasi, Stock market movement direction prediction using tree algorithms, ISSD'12, Third International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, 2012.
56. S. Cankurt, A. Subasi, Comparison of linear regression and neural network models forecasting tourist arrivals to Turkey , ISSD'12, Third International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, 2012.
57. E. Kremlj, A. Subasi, "The Implementation of Face Security for Authentication Implemented on Mobile Phone", The International Arab Conference on Information Technology (ACIT) 2011.
58. E. Aličković, A. Subasi, "Data Mining Techniques for Medical Data Classification", The International Arab Conference on Information Technology (ACIT) 2011.
59. F. Ozturk, A. Subasi, "Comparison of Decision Tree Methods for Intrusion Detection", ISSD'10, Second International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, June 2010.
60. O. Ornek, A. Subasi, Clustering Marketing Datasets with Data Mining Techniques, ISSD'10, Second International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, June 2010.
61. A. Subasi, E. Ilgun, "Economic Variable Forecasting Using Artificial Neural Network: A Case Study in Turkey", ISSD'09, First International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, June 2009.
62. H. Vural, N. Dogru, A. Subasi, "Information Security for Sustainable Development", ISSD'09, First International Symposium on Sustainable Development, Sarajevo, Bosnia and Herzegovina, June 2009.
63. M. R. Bozkurt, **A. Subasi**, E. Koklukaya "Classification of EMG Signals by Using AR Spectral Estimation Methods", ICAI2007 International Conference on Artificial Intelligence, Worldcomp'07 June 25-28, 2007, Las Vegas, Nevada, USA, Volume-I, pp. 369 – 372
64. M. I. Gürsoy, A. Subasi, "A comparison of PCA, ICA and LDA in EEG signal classification using SVM", SIU 2008, IEEE 16th Signal Processing, Communication and Applications Conference, Vols 1 and 2 Pages: 853-856
65. H. Batar, M.K. Kiyimik, A. Subasi, "Investigation of Wavelet Transform Performance in Classification of Vigilance States" SIU, Antalya, 2006 IEEE 14th Signal Processing and Communications Applications, Vols 1 and 2 Pages: 113-116, Published: 2006
66. E. Ercelebi, A. Subasi, "Classification of EEG in Wavelet Domain Using Artificial Neural Network and Multi Linear Regression", SIU, Antalya, 2006, Sponsor(s): IEEE 2006 IEEE 14th Signal Processing and Communications Applications, Vols 1 and 2 Pages: 101-104, Published: 2006.
67. M. Aksu, **A. Subasi**, E. Dayak, M. Karabulut, "3G Mobile Phone Application", SIU, Kayseri, 2005.
68. A. Alkan, **A. Subasi**, M.K. Kiyimik, "Comparison of MUSIC and AR Methods in Diagnosing Epilepsy", SIU, Kayseri, 2005.
69. A. Alkan, **A. Subasi**, M.K. Kiyimik, "Neural Network Classification of EEG Signals using MLE", SIU, Istanbul, 2003.
70. **A. Subasi**, "Performance Improvement of ATM Switch", High Performance IT Symposium, GYTE, Gebze, Oct. 2002.
71. A. Subasi, E. Koklukaya, "Performance Improvement of Multistage Interconnection Networks", ELECO'99 International Conference on Electrical and Electronics Engineering, pp. 224-228, Dec. 1999.
72. A. Subasi, H. Guran, "Performance Evaluation of Delta Switching Networks", MELECON'94 7th Mediterranean Electrotechnical Conference, Vol. I, pp.276-279, April 1994.

Posters

1. Abdulhamit Subasi, Samed Jukic, Epileptic Seizure Prediction using Rotation Forest in a Parallel Environment, IXPUG KAUST Spring Conference 2018, 22-25 April, Thuwal, Saudi Arabia.
2. Reem Alghamdi, Khlood Al-Marwani, Aisha Kwairanga, Abdulhamit Subasi, Khlood Rambo, Intrusion Detection in Smart Grid Using Decision Tree Methods, 12th - 14th Dec, 2017, Jeddah, Saudi Arabia.
3. S. M. Qaisar, R. Madani, L. Al-Harbi, A. Subasi, D. Dallet, The Event Driven Battery Management System for Smart Grid, Saudi Arabia Smart Grid Conference: Smart Grid and Sustainable Energy, 6-8 Dec. 2016, Jeddah, Saudi Arabia.

4. N. Alqwidi, A. Al-Shareef, A. Subasi, R. Kurdi, S. M. Qaisar, Cybersecurity Challenges for Smart cities: Smart Grid and Healthcare Perspectives, Saudi Arabia Smart Grid Conference: Smart Grid and Sustainable Energy, 6-8 Dec. 2016, Jeddah, Saudi Arabia.

National conferences (In Turkish):

1. Z. Aslan, A. Subasi, Undesired Voice And Image Audit In Multimedia Data Content, International Conference on Natural Science and Engineering (ICNASE'16), March 19-20, 2016, Kilis, TURKEY.
2. S. B. Akben, **A. Subaşı**, M. K. Kıymık, "EEG İşaretleri ile Migren Tanısında Yapay Sinir Ağları ve Destek Vektör Makineleri Sınıflandırma Yöntemlerinin Karşılaştırılması", SIU 2010 - IEEE 18. Sinyal İşleme ve İletişim Uygulamaları Kurultayı Bildiri Kitabı, Sayfa 637-640, 22-24 Nisan 2010, Diyarbakır.
3. S. B. Akben, **A. Subaşı**, M. K. Kıymık, "Migren Tanısında Öz Bağımlı BURG ve Alt Uzay Temelli MUSIC Yöntemlerin Destek Vektör Makineleri ile Karşılaştırılması", SIU 2010 - IEEE 18. Sinyal İşleme ve İletişim Uygulamaları Kurultayı Bildiri Kitabı, Sayfa 192-195, 22-24 Nisan 2010, Diyarbakır.
4. S. B. Akben, **A. Subaşı**, M. N. Bodur, Mühendislikte E-Eğitim Uygulamasının Getireceği Sonuçlar, Bilim-Eğitim Faaliyetlerinde Bilgi İletişim Teknolojilerinin Kullanılması Sempozyumu Bildirileri, 15-16 Eylül 2004 Bakü.
5. **A. Subasi**, E. Köklükaya, "Performance Evaluation of Delta Interconnection Networks", 8. National Electrical and Electronic Conference, Gaziantep, Sept. 1999.

SENIOR DESIGN PROJECTS

Supervised more than 40 graduation (senior) design projects for Electrical and Computer Engineering Students with different topics.

MASTER THESIS SUPERVISED:

1. Muhammad Hassan Nawaz, Myocardial ischemia detection using Deep learning techniques, University of Turku, 2023.
2. Motoki Saito, Artificial Intelligence based Lung Cancer Detection Using Histopathological Images, University of Turku, 2023.
3. Doaa A. Bashawyah, "Power Quality Event Detection Using Time-Frequency Based Feature Extraction and Machine Learning Methods in a Renewable Energy Integrated Grid", Effat University, 2019.
4. Alden Plakalo, "Designing Electrical Installation and Security Measurements", International Burch University, 2015.
5. Sabahudin Husic, "Mobile Telemonitoring System", International Burch University, 2015.
6. Emir Dzaferovic, "Android Application for Recording and Transmitting EEG Signals to A Cloud", International Burch University, 2015.
7. Zerina Masetic, "Detection of congestive heart failures using Decision tree algorithms", International Burch University, 2014.
8. Samed Jukic, "Localization of the epileptogenic foci using machine learning methods", International Burch University, 2014.
9. Emina Alickovic, Classification of ECG signals for cardiovascular diseases detection using different signal processing techniques and machine learning methods, International Burch University, 2012.
10. Jasmin Kevrić, Classification of EEG signals for epileptic seizure detection using different signal processing and machine learning methods, International Burch University, 2012.
11. Muhamed Halilovic, Intrusion detection on smartphones, International Burch University, 2012.
12. Selami Keleş, Classification of EMG signals using decision tree methods, International Burch University, 2012.

13. Fatih Öztürk, Comparison of Intrusion-detection Methods using Real Network Data, International Burch University, 2012.
14. Hakan Sahin, Classification of the cardiogram recordings using machine learning techniques, International Burch University, 2012.
15. Günter Şenyurt, Forecasting the price index return and movement direction using linear regression, artificial neural networks and support vector machines : the case of the Istanbul stock exchange (ISE) , International Burch University, 2011.
16. Selcuk Cankurt, Comparison of linear regression, neural networks and support vector regression models in multivariate time series: forecasting tourist arrivals to Turkey, International Burch University, 2011.
17. Emir Kremic, Face Recognition: Advanced Security Model for Mobile Phones, International Burch University, 2011.
18. Freddie Astrom, Classification of Event Related Potentials using C4.5 Decision Tree Classifier, Neural Networks and Support Vector Machines, Linkoping University, 2009.
19. Ali Selçuk Mercanlı, Development of different methods to increase security in mobile signature, K.S.U. Institute of Natural and Applied Science, 2008.
20. Zülfiyar Aslan, Undesired Voice and Image Audit in Multimedia Data Content, K.S.U. Institute of Natural and Applied Science, 2008.
21. Erdal Dayak, Development of a secure communication Application on 3G Mobile Phones, K.S.U. Institute of Natural and Applied Science, 2006.
22. Mustafa Karabulut, Development of a secure m-signature application on 3G Mobile Phones, K.S.U. Institute of Natural and Applied Science, 2006.
23. S. Batuhan Akben, Application of Elliptic Curve to Digital Signature, K.S.U. Institute of Natural and Applied Science, 2004.
24. Erdal Kilic, Data Collection System For Textile Machines, K.S.U. Institute of Natural and Applied Science, 2004.
25. Mustafa Aksu, Development of a Database Application on 3G Mobile Phones, K.S.U. Institute of Natural and Applied Science, 2004.

PHD DISSERTATIONS SUPERVISED:

1. Rani Ragini, , started 2024, “Generative AI based Image Analysis” University at Albany.
2. Furkan Kurt, started 2024, “Knowledge Graph based Multimodal Generative AI for scRNA analysis”, University at Albany.
3. Yujung Hwang, , started 2024, “Knowledge Graph based Medical Image analysis using Foundation Models”, University at Albany.
4. Siyuan Cheng, , started 2023, “Medical Artificial General Intelligence via Knowledge-Enhanced Multimodal Pretraining”, University at Albany.
5. Austin L. Mueke, started 2023, “Medical Report Generation using Large Language Models”, University at Albany.
6. Adelata Gicic, “Intelligent Credit Scoring using Deep Learning Methods”, Sarajevo University, 2024.
7. Dino Keco, “Feature Selection Using Cloud Based Parallel Genetic Algorithm for Data Classification”, International Burch University, 2017.
8. Gunter Senyurt, “Effects of Technical Market Indicators on Stock Market Index Direction Forecasting”, International Burch University, 2015.
9. Halit Vural, “A Novel Classification Method for Cancer Diagnosis Using Gene Expression Data”, International Burch University, 2015.
10. Emir Kremic, “Video Recognition: A Novel Method for Biometric Security Within Mobile Phone”, International Burch University, 2015.
11. Selcuk Cankurt, “Hybrid and Ensemble Models for Tourism Demand Forecasting”, International Burch University, 2015.
12. Emina Alickovic, “New Approaches in Diagnosis of Brain Diseases Using Data Mining Techniques”, International Burch University, 2015.

13. Jasmin Kevric, "Implementation of Novel Signal Decomposition and Data Mining Techniques in EEG Signal Analysis", International Burch University, 2015.
14. Harun Siljak, "New Approaches Based on the Fourier and Hilbert Spectra of Vibrations for Motor Condition Monitoring", International Burch University, 2015.
15. Ercan Gokgoz, "Evaluating Effects of Denoising and Feature Extraction Methods on Classification of EMG Signals", International Burch University, 2014.
16. Nejdet Dogru, "Accident Detection using machine learning methods", International Burch University, 2013.
17. Mehmet Recep Bozkurt, Classification and Preprocessing of EMG signals using modern methods, Sakarya University, Institute of Natural and Applied Science, 2007.

RESEARCH FUNDING & GRANTS

1. Project Co-Principal Investigator

Project Name : In Vivo Generated Pancreatic Tissue Against Human Islet Cells analysis using Large Language models and Knowledge Graphs
 Amount : \$35 000 000
 Date : Submitted
 Supported by : ARPA-H

2. Project Co-Principal Investigator

Project Name : Racial Equity in Precision Depression Treatment Outcomes
 Amount : \$3 000 000
 Date : Submitted
 Supported by : NIH

3. Project Co-Principal Investigator

Project Name : Knowledge-Graphs and LLM based depression detection and treatment during Disaster
 Amount : \$40 000 000
 Date : Submitted
 Supported by : MacArthur Foundation 100&Change 3rd round competition

4. Project Principal Investigator

Project Name : Trustworthy AI-based Breast Cancer Detection and Screening
 Amount : \$1 200 000
 Date : Applied
 Supported by : NIH R01

5. Project Co-Principal Investigator

Project Name : Novel Models for Predicting Adverse Outcomes of ADHD and Major Depression
 Amount : \$2 500 000
 Date : Applied
 Supported by : NIH-R01

6. Project Coordinator

Project Name : AI Engineering Suite To Support Agile Efficient Software Engineering (AI4SOFTENG)
 Amount : 6 000 000 €
 Date : August 2023-
 Supported by : HORIZON EUROPE

7. Project Coordinator

Project Name : Artificial Intelligence Based Health, Optimism, Purpose, and Endurance in Palliative Care For Dementia (AI4HOPE)
Amount : 7 000 000 €
Date : August 2023-
Supported by : HORIZON EUROPE

8. Project Principal Investigator

Project Name : Alzheimer's Disease Detection and Treatment for Personalized Medicine Using Artificial Intelligence.
Amount : \$15 000
Date : April. 2020-
Supported by : Effat University

9. Project Principal Investigator

Project Name : Breast Cancer Detection Using Artificial Intelligence.
Amount : \$15 000
Date : April. 2020-
Supported by : Effat University

10. Project Principal Investigator

Project Name : Big Data Analysis using Intelligent Machine Learning Tools.
Amount : \$1 000 000
Date : Jan. 2019- Dec. 2021
Supported by : ARAMCO

11. Project Principal Investigator

Project Name : Application of virtual reality in Emotion Regulation using Brain Computer Interface
Amount : \$80 000
Date : Jan. 2018- Jan 2020
Supported by : Effat University

12. Project Principal Investigator

Project Name : Intelligent Warning System for m-Health Applications
Amount : \$80 000
Date : Jan. 2018- Jan 2020
Supported by : Effat University

13. Project Principal Investigator

Project Name : Diagnosis of Neuromuscular Disorders Using Wavelet Based Feature Extraction Methods and Ensemble Classifiers
Amount : \$120 000
Date : Sept. 2017-Sept. 2019
Supported by : Effat University

14. Project Principal Investigator

Project Name : Robust Intrusion Detection System for Cyber Physical Attacks in Smart Grid using Data mining Techniques
Amount : \$180 000
Date : Sept. 2017- Sept 2019
Supported by : Effat University

15. Project Principal Investigator

Project Name : An Event Driven Biomedical Signal Testbed for the Brain Computer Interface and Man–Machine Interaction using EEG and EMG Signals
Amount : \$130 000
Date : Sept. 2017- - Sept 2019
Supported by :Effat University

16. Project Co-Investigator

Project Name : An Event Driven Speech to Machine Interface Based on the Time Domain Command Recognition
Amount : \$80 000
Date : Sept. 2017-Sept. 2019
Supported by :Effat University

17. Project Co-Investigator

Project Name : Healthcare Information Systems Model Based on Cloud Computing
Amount : \$110 000
Date : Jan. 2016-Sept. 2019
Supported by :Effat University

18. Project Co-Investigator

Project Name : Adaptive rate ECG acquisition and denoising for a computationally efficient Diagnosis of Cardiovascular Diseases
Amount : \$90 000
Date : Sept. 2016-Sept. 2019
Supported by :Effat University

19. Project Principal Investigator

Project Name : Cloud Computing-Based Parallel Real-time EEG Signal Analysis using Ensemble Machine Learning Techniques
Amount :160 000 €
Date : Jan. 2015- Jan. 2016
Supported by : International Burch University

20. Project Principal Investigator

Project Name : Cloud Computing-Based Parallel Algorithms for Gene Selection in Cancer Classification
Amount :100 000 €
Date : Jan. 2015- Dec. 2016
Supported by : International Burch University

21. Project Principal Investigator

Project Name : Credit Scoring in Big Data Concept Using Data Mining Techniques
Amount :170 000 €
Date : Jan. 2014- Sept. 2016
Supported by :Info Studio Company

22. Project Principal Investigator

Project Name : Fraud Detection in Telecommunication Networks using Data mining Techniques
Amount :200 000 €
Date : Jan. 2011-July 2014
Supported by : Zira Company

23. Project Principal Investigator

Project Name : Comparison of Different Feature Extraction and Machine Learning Techniques in EEG-Based Wireless BCI System in a Cloud

Amount :120 000 €

Date :Sept. 2013- Sept. 2015

Supported by: International Burch University

24. Project Principal Investigator

Project Name : New Approaches for Diagnosis of Brain Diseases Using Data Mining Techniques

Amount :130 000 €

Date :Sept. 2013- Sept. 2015

Supported by: International Burch University

25. Project Principal Investigator

Project Name : Comparison of Data Mining Techniques for Robust Intrusion Detection

Amount :100 000 €

Date : Sept. 2010- May. 2012

Supported by: International Burch University,

26. Project Principal Investigator

Project Name : Comparison of Machine Learning Methods for Biomedical Signal Analysis

Amount :140 000 €

Date : Sept. 2010- May. 2012

Supported by: International Burch University,

27. Project Principal Investigator

Project Name : A database application program development working on a 3G mobile Phones

Amount :\$150 000

Date : Sept. 2003 – April 2005

Supported by :DPT (2003K120730)

28. Project Co-Investigator

Project Name : Parametric and Time Frequency Based ANN for Simultaneously Diagnosing Automation and Analysis of the Bioelectrical Signals, (EEAG-105E039)

Amount : \$500 000

Date : Oct. 2005- June 2008

Supported by :TUBITAK

29. Project Co-Investigator

Project Name :Design and Application of a Neural Network to Control Voltage and Frequency of Asynchronous Generator

Amount : \$80 000

Date : Sept. 2003 – April 2004

Supported by : Kahramanmaras Sutcu Imam University, 2003/2-40

SCHOLARLY ACTIVITIES

JOURNAL EDITORIAL BOARD MEMBER

- Associate Editor, IEEE Journal of Biomedical and Health Informatics
- Associate Editor, HELIYON, Elsevier
- Associate Editor, Frontiers in Oncology
- Associate Editor, International Journal of Artificial Intelligence and Expert Systems
- Associate Editor, Frontiers in Communications and Networks
<https://www.frontiersin.org/journals/communications-and-networks/editors>
- Associate Editor, Computer Science and Information Technologies
- Editorial Board Member, Computers in Biology and Medicine (Elsevier)
- Editorial Board Member, Security and Communication Networks (Hindawi)
- Editorial Board Member, Journal of Artificial Intelligence and Machine Learning.
- Special Issue (on Linear Time-Varying Systems) Editor, Mathematical Problems in Engineering
- Editorial Board Member, CAAI Transactions on Intelligence Technology (IEEE)
- Editorial Board Member, Scientific Journal of Biomedical Engineering & Biomedical Science
- Editor, Southeast Europe Journal of Soft Computing
- Editorial Board Member, The Scientific World Journal
- Editorial Board Member, World Journal of Methodology
- Editorial Board Member, Machine Learning and Knowledge Extraction (MDPI)
- Editorial Board Member, Sci Journal (MDPI)
- Editorial Board Member, International Journal of Machine learning and Computing
<https://www.ijml.org/list-11-1.html>
- Editorial Board Member, Computational Biomedicine
<https://ojs.gs-publishing.uk/index.php/CBD/about/editorialTeam>
-

CONFERENCE BOARD MEMBER

1. Scientific Committee Member, The 21st International Learning and Technology Conference (L&T 2024), Jan. 15 - 16, 2024, Effat University, Jeddah, KSA.
2. Program Committee Member, 15th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2023), November 13-15, 2023, Rome Italy.
3. Program Committee Member, 29th International Conference on Information, Communication and Automation Technologies (ICAT 2023), 11-14th June 2023, Sarajevo, Bosnia and Herzegovina.
4. SIGNAL 2023, Technical Program Committee Member, The Eighth International Conference on Advances in Signal, Image and Video Processing, March 13 - 17, 2023 in Barcelona, Spain
5. Scientific Committee Member, The 20th International Learning and Technology Conference (L&T 2023), 26th of January 2023, Effat University, Jeddah, KSA.
6. Program Committee Member, 14th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2022), Oct 24, 2022 - Oct 26, 2022, Valletta, Malta.
7. SIGNAL 2022 Technical Program Committee, The Seventh International Conference on Advances in Signal, Image and Video Processing, May 22, 2022 to May 26, 2022 - Venice, Italy
8. Scientific Committee Member, 19th International Learning and Technology Conference 2022 (L&T 2022), January 27, 2022, Jeddah, Saudi Arabia.
9. SIGNAL 2021 Technical Program Committee, The Sixth International Conference on Advances in Signal, Image and Video Processing, May 30, 2021 to June 03, 2021 - Valencia, Spain.
10. Program Committee Member, 7th International Conference on Image Processing and Pattern Recognition (IPPR 2021), April 24~25, 2021, Copenhagen, Denmark
11. Program Committee Member, International Conference of Medical and Biological Engineering in Bosnia

- and Herzegovina (CMBEBIH 2021), 21-24th April 2021, Mostar, Bosnia and Herzegovina.
12. AMLA 2020, Program Committee Member, International Conference on Advanced Machine Learning, June 13 ~ 14, 2020, Helsinki, Finland.
 13. SIGNAL 2020 Technical Program Committee Member, SIGNAL 2020, The Fifth International Conference on Advances in Signal, Image and Video Processing – Committees, September 27, 2020 to October 01, 2020 - Lisbon, Portugal
 14. DeLTA 2020, Program Committee Member, 1st International Conference on Deep Learning Theory and Applications, July 8 - 10, 2020 Lieusaint - Paris, France.
 15. SIPR 2019, Program Committee Members, 5th International Conference on Signal Processing and Pattern Recognition, December 14~15, 2019, Chennai, India.
 16. CSIP 2019, Program Committee Member, 6th International Conference on Signal Processing, April 27-28, 2019, Copenhagen, Denmark.
 17. SIGNAL 2019 Technical Program Committee Member, The Fourth International Conference on Advances in Signal, Image and Video Processing, June 2, 2019 to June 6, 2018 - Athens, Greece.
 18. Program Committee Member, International Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2019), 16-18 May 2019, Banja Luka, Bosnia and Herzegovina.
 19. L&T 2019 Organizing Committee Member, The 16th International Learning and Technology Conference, 30th – 31st January 2019, Jeddah, Saudi Arabia.
 20. Complex Adaptive Systems Conference Organizing Committee Member, November 5 - 7 2018, Chicago, IL, USA.
 21. SIGNAL 2018 Technical Program Committee Member, The Third International Conference on Advances in Signal, Image and Video Processing, May 20, 2018 to May 24, 2018 - Nice, France
 22. L&T 2018 Organizing Committee Member, 15th Learning and Technology Conference, 25th – 26th February 2018, Jeddah, Saudi Arabia.
 23. SPIN 2018 Technical Program Committee Member, 5th International Conference on Signal Processing and Integrated Networks 22 - 23 February 2018, Amity University, Noida, Sec-125, Delhi-NCR
 24. The Second International Conference on Advances in Signal, Image and Video Processing, May 21 - 25, 2017 - Barcelona, Spain.
 25. Program Committee Member, 2nd International Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2017), 16-18 March 2017, Sarajevo, Bosnia and Herzegovina.
 26. SPIN 2017 Technical Program Committee Member, Fourth International Conference on Signal Processing and Integrated Networks, SPIN – 2017, 2-3 February, 2017, Noida, New Delhi NCR, India.
 27. Scientific committee Member, 2nd International Conference on Engineering and Natural Sciences (ICENS 2016), May 24 to 28, 2016, Sarajevo, Bosnia and Herzegovina.
 28. Technical Program Committee Member, 3rd International Conference on Signal Processing and Integrated Networks (SPIN) 2016, 11-12 February 2016, Delhi, India.
 29. Technical Program Committee Member, International Conference on Sustainable Development (ICSD), Belgrade, Serbia in November 12-15, 2015.
 30. Scientific Committee Member, 1st Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2015), 13-15 March 2015, Sarajevo, Bosnia and Herzegovina.
 31. Technical Program Committee member, 2nd International Conference on Signal Processing and Integrated Networks (SPIN) 2015, 19-20 February 2015, Noida, India.
 32. Conference Committee Member, The International Conference on e-Education (ICeE 2014), September 26 - 27, 2014, Mostar, Bosnia and Herzegovina.
 33. Organizing Committee Member, Scientific committee Member, International Symposium on Sustainable Development, 15-18 May 2014, Sarejevo, Bosnia and Herzegovina.
 34. Editorial Board Member, Organizing Committee Member, Scientific committee Meber, ISSD 2013 International Conference on Sustainable Development, , 13–17 May 2013, Sarajevo, Bosnia and Herzegovina.
 35. Editor, Organizing Committee Member, Scientific committee Member, ISSD 2012 International Conference on Sustainable Development, , 31 May-1 June 2012, Sarajevo, Bosnia and Herzegovina.
 36. Editorial Board Member, Organizing Committee Member, Scientific committee Member, ISSD 2010

COMMITTEE MEMBERSHIP

Served as a member of various scientific and educational councils and committees:

- UAlbany, SUNY - AI Director - Search Committee Member, 2024
- UAlbany Information Sciences and Technology Department Assistant or Associate Professor in Gaming and AI Professor(s) Search Committee Chair, 2024
- UAlbany Global Center for AI in Mental Health Steering Committee Member, 2024
- UAlbany Interim Co-Director, Global Center for AI in Mental Health Search Committee Member, 2024
- UAlbany IAI+ curriculum Steering Committee Member, 2024
- UAlbany Information Sciences and Technology Department ABET Accreditation Committee Member, 2024
- Expert evaluator for the Kingdom of Saudi Arabia, National Science, Technology and Innovation as a Project Reviewer
- Expert evaluator for the Swiss National Science Foundation as a Project Reviewer
- Expert evaluator for the Czech Science Foundation as a Project Reviewer
- Expert evaluator for the COST association as a Project Reviewer and Rapporteur
- Scientific Council Member of Effat University
- Research Council Member of College of Engineering at Effat University
- ABET Accreditation Committee Member at Effat University
- NCAAA Accreditation Committee Member at Effat University
- Senate Member of International Burch University
- Bologna Accreditation Committee Member at International Burch University
- Strategic Planning Committee Member at International Burch University
- Scientific Research Committee Member at International Burch University
- IT Practical Training Committee Member at International Burch University
- TUBITAK TEYDEB, SANTEZ Project Reviewer and Rapportuer

PROMOTION COMMITTEE MEMBERSHIP

1. Assoc. Prof. Dr. Mariette Awad, Department of Electrical Engineering, American University of Beirut, Lebanon, Professorship External Committee Member, Jan. 2021.
2. Assist. Prof. Shadi Nashwan, Aljouf University, Saudi Arabia, Assoc. Professorship External Committee Member
3. Assist. Prof. Malak Al-Noury, Effat University, Saudi Arabia, Head of Assoc. Professorship Departmental Committee
4. Assist. Prof. Abdulaziz Turki Ibrahim Almaktoom, Effat University, Saudi Arabia, Head of Assoc. Professorship Committee
5. Assist. Prof. Muhammad Kousar, Effat University, Saudi Arabia, Head of Assoc. Professorship Committee

LEADERSHIP ACTIVITIES

- Director of AI4HEALTH Lab. at University at Albany, SUNY.
- Director, Research Center Institute, Effat University
- Director, The Artificial Intelligence and Cyber Security Research Lab at Effat University.
- Head, Machine Learning/Data Mining Research Group of International Burch University
- Head, Biomedical Engineering Research Group of International Burch University
- Head, IT Department Council of International Burch University

- Head, Engineering Faculty Council of International Burch University
- Head, IT Department Curriculum Committee of International Burch University
- Head, Electrical Engineering Department Curriculum Committee of International Burch University
- Head of the IT department Accreditation committee which led to obtaining Bologna accreditation.

AWARDS, DISTINCTIONS AND FELLOWSHIPS

- Elsevier Most Cited Article Award (2016) for “Classification of EMG Signals Using PSO optimized SVM for Diagnosis of Neuromuscular Disorders”, *Computers in Biology and Medicine* 43 (2013) 576–586.
- College of Engineering Research Excellence Award, Effat University, June 2016
- International Burch University 2014 encouraging reward for scientific research.
- Elsevier Most Cited Article Award (2008) for “Automatic detection of epileptic seizure using dynamic fuzzy neural networks”, *Expert Systems with Applications*, 31, 320–328, 2006
- Elsevier Most Cited Article Award (2008) for “EEG signal classification using wavelet feature extraction and a mixture of expert model”, *Expert Systems with Applications*, 32, 1084–1093, 2007
- TUBITAK encouraging reward for scientific research for journal publications.
- KSU 2004-2005 encouraging reward for scientific research.
- Postdoctoral collaborative research and development grant (TUBITAK NATO research grant) for Electrical and Computer Engineering in Georgia Institute of Technology, U.S.A. (2004–2006).
- Collaborative research funding, awarded by Info Studio doo. Inc. Sep. 2012 - Jul. 2015.
- Collaborative research funding, awarded by Zira Company Inc., Sep. 2010 – Jul. 2012
- Faculty Award for Excellence in Research, Effat University May 2017
- Faculty research grant, awarded by Effat University Jan 2016 - Present
- Queen Effat Award for Excellence in Research, May 2018

REVIEWER FOR BOOKS

1. Learning Algorithms For Time Series Mining Using Autoregressive Models (Springer)
2. Machine Learning Fundamentals and Applications (CRC)
3. Machine Learning and Deep Learning in Neuroimaging data analysis (CRC)

REVIEWER FOR RESEARCH ARTICLES IN JOURNALS

1. ACM Transactions on Internet Technology
2. Advances in Data Analysis and Classification (Springer)
3. Advances in Engineering Software (Elsevier)
4. Advances in Fuzzy Systems (Hindawi)
5. Advanced Techniques in Biology & Medicine
6. Applied Intelligence (Springer Nature)
7. Applied Mathematical Modelling (Elsevier)
8. Applied Sciences (Springer Nature)
9. Applied Sciences (MDPI)
10. Applied Soft Computing (Elsevier)
11. Artificial Intelligence in Medicine (Elsevier)
12. Automatika: Journal for Control, Measurement, Electronics, Computing and Communications
13. Biomedical Engineering Letters (Springer Nature)
14. Biomedical Engineering (Springer Nature)
15. BioMedical Engineering OnLine
16. Biomedical Physics & Engineering Express (IOP)
17. Biomedical Research (Allied Academies Journals)

18. Biomedical Signal Processing and Control (Elsevier)
19. BMJ Open
20. CAAI Transactions on Intelligence Technology
21. Chemometrics and Intelligent Laboratory Systems (Elsevier)
22. Cognitive Neurodynamics (Springer Nature)
23. Computer (MDPI)
24. Computers and Electrical Engineering (Elsevier)
25. Computers in Biology and Medicine (Elsevier)
26. Computer Methods in Biomechanics and Biomedical Engineering
27. Computer Methods and Programs in Biomedicine (Elsevier)
28. Computational and Structural Biotechnology Journal (Elsevier)
29. Computational and Mathematical Methods in Medicine (Hindavi)
30. Computational Intelligence and Neuroscience (Hindavi)
31. Computer Science Journals IJIP
32. Circuits, Systems & Signal Processing (Springer Nature)
33. Data Mining and Knowledge Discovery (Wiley)
34. Digital Health
35. Digital Signal Processing (Elsevier)
36. Energy Conversion and Management (Elsevier)
37. Engineering Applications of Artificial Intelligence (Elsevier)
38. Engineering Science and Technology, an International Journal (Elsevier)
39. Engineering Reports (Wiley)
40. Entropy (MDPI)
41. Expert Systems
42. FEBS Open Bio
43. Food Analysis Methods
44. Frontiers of Information Technology & Electronic Engineering
45. Future Generation Computer Systems
46. Fuzzy Sets and Systems (Elsevier)
47. IEEE Access
48. IEEE Journal of Biomedical and Health Informatics
49. IEEE Instrumentation and Measurement
50. IEEE Sensors
51. IEEE Signal Processing Letters
52. IEEE Systems, Man and Cybernetics
53. IEEE Systems Journal
54. IEEE Transactions on Artificial Intelligence
55. IEEE Transactions on Biomedical Circuits and Systems
56. IEEE Transactions on Biomedical Engineering
57. IEEE Transactions on Circuit and Systems
58. IEEE Transactions on Computational Social Systems
59. IEEE Transactions on Image Processing
60. IEEE Transactions on Information Forensics & Security
61. IEEE Transactions on Neural Networks and Learning Systems
62. IEEE Transactions on Neural Systems and Rehabilitation Engineering
63. IEEE Transactions on Power Delivery
64. IET Image Processing
65. IET Science, Measurement & Technology
66. IETE Journal of Research
67. IIE Transactions on Healthcare Systems Engineering
68. Infomatica

69. Infomatics in Medicine Unlocked (Elsevier)
70. Information Sciences (Elsevier)
71. International Journal of Developmental Neuroscience (Elsevier)
72. International Journal of Electrical power and Energy Systems (Elsevier)
73. International Journal of Communication Systems (Wiley)
74. International Journal of Information Technology & Decision Making
75. International Journal of Instrumentation Technology
76. International Journal for Numerical Methods in Biomedical Engineering
77. International Journal of Signal Processing
78. International Journal of Simulation Modelling
79. Journal of Ambient Intelligence and Humanized Computing (Springer Nature)
80. Journal of Artificial Intelligence & Data Mining (JAIDM)
81. Journal of Biological Physics (Springer Nature)
82. Journal of Biomedical Research (Allied Academies)
83. Journal of Healthcare Engineering (Hindawi)
84. Journal of King Saud University (Elsevier)
85. Journal of Medical Systems (Springer Nature)
86. Journal of Measurement (Elsevier)
87. Journal of Neural Engineering (IOP)
88. Journal of Neurophysiology
89. Journal of Neuroscience Methods (Elsevier)
90. Journal of Sensors (Hindawi)
91. Journal of Zhejiang University Science C (Computers & Electronics)
92. Machine Learning and Knowledge Extraction (MDPI)
93. Machine Learning with Applications (Elsevier)
94. Mathematical and Computational Applications (MDPI)
95. Measurement Science Review
96. Medical & Biological Engineering & Computing
97. Medical Engineering and Physics (Elsevier)
98. Medical Hypothesis (Elsevier)
99. Methods of Information in Medicine Health Informatics
100. Mobile Information Systems (Hindawi)
101. Molecules (MDPI)
102. National Academy Science Letters (Springer Nature)
103. Neurocomputing (Elsevier)
104. Neural Computing Applications (Springer Nature)
105. Neural Network World Journal
106. Neural Processing Letters (Springer Nature)
107. Open Mathematics
108. Open Life Sciences
109. Pattern Analysis and Applications (Springer Nature)
110. Pattern Recognition Letters (Elsevier)
111. Peertechz Journal of Computer Science and Engineering
112. PLOS ONE
113. PLUS Springer
114. Research Square
115. Results in Physics (Elsevier)
116. Scientific Research and Essays (Academic journals)
117. Security and Communication Networks (Hindawi)
118. Sensors (MDPI)
119. Shock and Vibration (Hindawi)

- 120.Signal, Video and Image Processing
- 121.Structural Engineering and Mechanics, An international Journal
- 122.Talanta (Elsevier)
- 123.Technologies (MDPI)
- 124.Tehnicky Vjesnik-Technical Gazette
- 125.The Chinese Journal of Physiology
- 126.The Scientific World Journal (Hindavi)
- 127.Turkish Journal of Electrical Engineering & Computer Science
- 128.EURASIP Journal on Advances in Signal Processing (Springer)
- 129.WSEAS Transactions on Signal Processing
- 130.WSEAS Transactions on Systems And Control
- 131.WSEAS Transactions on Computers

COMPUTER LANGUAGES AND SOFTWARE

- JAVA
- Python
- R
- C++
- C#
- MATLAB
- WEKA Machine Learning Tool

LANGUAGES

- Turkish (Native)
- English (Fluent)
- Bosnian (Beginner)
- Arabic (Beginner)

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