CURRICULUM VITAE AND PUBLICATIONS LIST



CURRICULUM VITAE

Name and Surname: Mhd Raja Abou Harb

Academic Title: Assistant Professor

Work Address:

Email: 99042293648@biruni.edu.tr

Foreign Languages Known (Score and Year): Turkish, B2 Upper Intermediate, 2022

Area of Expertise: Artificial Intelligence, Computer Learning and Pattern Recognition
Information Security and Reliability
Other

Degree	Department/Program	University	Year
Doctorate	Computer Engineering	Işık University	2026
Master's Degree	SİBER GÜVENLİK ANABİLİM DALI (DİSİPLİNLERARASI)	Üsküdar University	2021
Bachelor's Degree	Bilgisayar Mühendisliği		2014

Master's Thesis Title (abstract attached) and Thesis Supervisor(s):

Detecting Malicious URLs through Machine Learning Techniques

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

ADVANCING PRIVACY AND SECURITY IN MACHINE LEARNING THROUGH HOMOMORPHIC ENCRYPTION AND EXPLAINABLE AI

Position Title	Workplace	Year
Assistant Professor	Biruni University	2026-Continues
Expert	Biruni University	2026

Administrative Duties:

1. Institutional Coordinator of the Erasmus Program - Biruni University (2026 - Continues)

Undergraduate and graduate level courses taught in the last two years (If offered, summer courses will also be added to the table):

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2025	Spring	Introduction to Network Security and Encryption			
2025	Spring	CMP451 Parallel and Distributed Programming			

2025	Spring	COMP608 Computer Systems and Network Security			
2025	Fall	CMP451 Parallel and Distributed Programming			
2025	Fall	COMP608 Computer Systems and Network Security			

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Abou Harb M. R., Çeliktaş B., Eroğlu G., "Privacy-Preserving Dyslexia Detection Using Homomorphic Encryption for QEEG Data with Explainable AI Insights", *The Journal of Supercomputing*, vol. 82, no. 633, 2026.

A2. Tüyel A. U., Abou Harb M. R., Aslan Y. A., "Node-U-Net: A Lightweight Attention-Guided Network for Pulmonary Nodule Segmentation", *Journal of Imaging Informatics in Medicine*, vol. 40, no. 1, 2026.

A3. Eroğlu G., Abou Harb M. R., "Theta and Beta1 Frequency Band Values Predict Dyslexia Classification", *Dyslexia*, vol. 32, 2025.

A4. Abou Harb M. R., Eroğlu G., "Can we use a biomarker detection algorithm to measure the effectiveness of 14-channel neurofeedback in dyslexia?", *Applied Neuropsychology: Child*, vol. 14, pp. 1-14, 2025.

A5. Eroğlu G., Abou Harb M. R., "Electroencephalography Signatures Associated with Developmental Dyslexia Identified Using Principal Component Analysis", *Diagnostics*, vol. 15, no. 17, 2025.

A6. Abou Harb M. R., Celiktas B., "ANN Activation Function Estimators for Homomorphic Encrypted Inference", *IEEE Access*, vol. 13, pp. 103512-103530, 2025.

B. Papers presented at international scientific meetings and published in proceedings:

B1. Tüyel A. U., Abou Harb M. R., Predicting Basal-Like Breast Cancer Using Pathway-Targeted Genomic Features and SMOTE-Enhanced Ensemble Models, In: *2026 10th International Artificial Intelligence and Data Processing Symposium (IDAP)*, İstanbul, Turkey, 2026.

B2. Abdulhadi B., Abou Harb M. R., Evaluating Machine Learning Models for Network Anomaly Detection in IoT Environments, In: *10th International Artificial Intelligence and Data Processing Symposium (IDAP)*, İstanbul, Turkey, 2026.

B3. Mohebali A., Abou Harb M. R., Integrating Zero-Trust and Reversible Data Hiding for Secure Medical Imaging, In: *2026 10th International Artificial Intelligence and Data Processing Symposium (IDAP)*, İstanbul, Turkey, 2026.

B4. Tüyel A. U., Abou Harb M. R., Predicting Basal-Like Breast Cancer Using Pathway-Targeted Genomic Features and SMOTE-Enhanced Ensemble Models, In: *10th International Artificial Intelligence and Data Processing Symposium (IDAP 2026)*, İstanbul, Turkey, 2026.

D. Articles published in national peer-reviewed journals:

D1. Eroglu G., Abou Harb M. R., "Enhancing Left Hemisphere Function in Dyslexia: A Pilot Study on 14-Channel Neurofeedback With Auto Train Brain", *NeuroRegulation*, vol. 12, 2025.

D2. Abou Harb M. R., Özekes S., "Detecting Malicious DNS over HTTPs (DoH) Connections via Machine Learning Techniques", *Journal of Engineering Research (Kuwait)*, vol. 11, 2023.

E. Papers presented at national scientific meetings and published in proceedings:

E1. Abou Harb M. R., Çeliktaş B., Eroğlu G., Secure and Interpretable Dyslexia Detection Using Homomorphic Encryption and SHAP-Based Explanations, In: *2025 Medical Technologies Congress (TIPTEKNO)*, Cyprus, 2025.

E2. Abou Harb M. R., Çeliktaş B., Efficient Estimation of Sigmoid and Tanh Activation Functions for Homomorphically Encrypted Data Using Artificial Neural Networks, In: *2024 8th International Symposium on Innovative Approaches in Smart Technologies (ISAS)*, Turkey, 2024.

E3. Eroğlu G., Abou Harb M. R., Assessing ChatGPT's Accuracy in Dyslexia Inquiry, In: *2024 Medical Technologies Congress (TIPTEKNO)*, Turkey, 2024.

E4. Eroğlu G., Abou Harb M. R., Assessing Dyslexia with Machine Learning: A Pilot Study Utilizing Google ML Kit, In: *2023 Medical Technologies Congress (TIPTEKNO)*, Cyprus, 2023.