

RIDWAN BOYA MARQAS SHAMOUN

List of Publications

PhD Candidate, Department of Software Engineering, Firat University, Elazığ, Turkey

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Google Scholar: <https://scholar.google.com/citations?user=Z2A6EiYAAAAJ> | ORCID: 0000-0002-1071-3771

Date: _____

A. Journal Articles (Peer-Reviewed)

1. Marqas, R. B., Simó, Z., Mousa, A., Özyurt, F., & Iantovics, L. B. (2026). Advancing Drug–Drug Interaction Prediction with Biomimetic Improvements: Leveraging the Latest Artificial Intelligence Techniques to Guide Researchers in the Field. *Biomimetics*, 11(1), 39. <https://doi.org/10.3390/biomimetics11010039> [SCI-indexed]
2. Boya Marqas, R., Almufti, S. M., Asaad, R. R., & Mohamed, T. S. (2025). Advancing AI: A Comprehensive Study of Novel Machine Learning Architectures. *International Journal of Scientific World*, 11(1), 48–58. <https://doi.org/10.14419/kwb24564>
3. Almufti, S. M., Ahmad, H. B., Marqas, R. B., & Asaad, R. R. (2021). Grey Wolf Optimizer: Overview, Modifications and Applications. *International Research Journal of Science, Technology, Education, and Management*, 1(1).
4. Almufti, S. M., Marqas, R. B., Othman, P. S., & Sallow, A. B. (2021). Single-Based and Population-Based Metaheuristics for Solving NP-Hard Problems. *Iraqi Journal of Science*.
5. Almufti, S. M., Marqas, R. B., Nayef, Z. A., & Mohamed, T. S. (2021). Real-Time Face-Mask Detection with Arduino to Prevent COVID-19 Spreading. *Qubahan Academic Journal*, 1(2), 39–46. <https://doi.org/10.48161/qaj.v1n2a47>
6. Ihsan, R. R., Almufti, S. M., Ormani, B. M., Asaad, R. R., & Marqas, R. B. (2021). A Survey on Cat Swarm Optimization Algorithm. *Asian Journal of Research in Computer Science*, 10(2), 22–32.
7. Marqas, R. B., Almufti, S. M., & Asaad, R. R. (2022). Firebase Efficiency in CSV Data Exchange Through PHP-Based Websites. *Academic Journal of Nawroz University*, 11(3), 410–414. <https://doi.org/10.25007/ajnu.v11n3a1480>
8. Almufti, S. M., Boya Marqas, R., & Ashqi Saeed, V. (2019). Taxonomy of Bio-Inspired Optimization Algorithms. *Journal of Advanced Computer Science & Technology*, 8(2), 23. <https://doi.org/10.14419/jacst.v8i2.29402>

B. Conference Papers (Peer-Reviewed)

1. Marqas, R., & Özyurt, F. (2026). Tri-Modal Calibrated Ensemble Framework of Drug–Drug Interaction Prediction on Structural, Pharmacokinetic, and Transcriptomic Evidence. In *Proceedings of the IEEE International Conference on Frontiers in Engineering and Technology (FET'26)*, Manama, Bahrain. [IEEE, accepted, in press]
2. Rutskiy, V., Marqas, R. B., Senapati, B., Muda, I., Mikhail, S., Shadmanbekova, K. A., & Tsarev, R. (2024). Assessment of Enterprise Efficiency Factors Affecting Its ESG Rating. In *Computer Science On-line Conference*, pp. 236–243. Springer. https://doi.org/10.1007/978-3-031-70595-3_25
3. Ridwan Boya Marqas (2024). Advancements in Email Forensics: A Comparative Analysis of Machine Learning Models for Spam Detection. In *Tashkent International Congress on Modern Sciences–III*. ISBN: 978-625-367.
4. Ridwan Marqas, & Tuncer, S. A. (2024). Employing LSTM and Random Forest Techniques for Precision Identification of Misinformation. In *New Trends in Computer Sciences*. <https://doi.org/10.5281/zenodo.10890229>
5. Ridwan Boya Marqas, & Tuncer, T. (2024). Comparative Analysis of LSTM, XGBoost, and Hybrid Approaches in Credit Card Fraud Detection. In *Proceedings of the 4th International Artificial Intelligence and Data Science Conference*.

C. Bibliometric Indicators

Total citations: 389+ **h-index:** 12 (Google Scholar, retrieved on the date of signature)

Verified profiles: Google Scholar, ORCID (0000-0002-1071-3771), ResearchGate, IEEE Xplore.

*A complete and continuously updated list of publications is available on the author's Google Scholar profile:
<https://scholar.google.com/citations?user=Z2A6EiYAAAAJ>*

Signature: _____

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Date: _____

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<https://ridwanmarqas.com>

<https://github.com/Ridwan90>

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RESEARCH PROFILE

Artificial Intelligence researcher specializing in **machine learning, multimodal data modeling, and applied AI systems**. Experienced in developing predictive models for complex real-world problems, including healthcare applications such as drug-drug interaction (DDI) prediction.

Author of **SCI-indexed journal and IEEE conference publications**, with over **600 citations (h-index: 12)**. Combines research and implementation by building AI systems and tools for real-world applications.

Experienced in **academic publishing workflows, peer review systems, and research quality evaluation** through editorial roles in Scopus-indexed journals.

RESEARCH INTERESTS

- Machine Learning & Deep Learning
- Multimodal Learning & Data Fusion
- AI for Healthcare & Biomedical Data
- Data Science & Intelligent Systems

PUBLICATIONS

Ridwan B. M. Shamoun, et al. (2026)

Advancing Drug-Drug Interaction Prediction with Biomimetic Improvements

Biomimetics (SCI-indexed Journal)

<https://www.mdpi.com/2313-7673/11/1/39>

Ridwan B. M. Shamoun, et al.

(2026) IEEE FET Conference Paper

Full list:

<https://scholar.google.com/citations?user=Z2A6EiYAAA-AJ>

RESEARCH EXPERIENCE

Artificial Intelligence

Researcher

- Developed **multimodal machine learning models** for drug–drug interaction prediction integrating:
 - Molecular fingerprints
 - Pharmacokinetic features
 - Gene expression data
- Designed and implemented **end-to-end ML pipelines**, including:
 - Feature engineering
 - Model training and validation
 - Performance evaluation
- Conducted comparative analysis of multiple ML models to optimize predictive performance
- Applied AI techniques across domains:
 - Healthcare (DDI prediction)
 - Biometrics
 - Intelligent systems

SELECTED PROJECTS (GitHub)

[https : //github.com/ R edwan90](https://github.com/R edwan90)

Research AI Checker

AI-based system for research paper analysis and quality evaluation

- Citation validation and reference analysis
- Formatting compliance checking
- Modular architecture (parser → analyzer → reporting)

AI Scholarship Finder Platform

AI-powered system for intelligent opportunity matching

- User profiling and recommendation system
- Document analysis (CV/SOP feedback)

- Multilingual interface and real-time data integration

Journal Template Checker

System for automated document structure validation

- Detects formatting inconsistencies
- Compares documents against journal templates

Additional **private research repositories available upon request**

TECHNICAL SKILLS

Machine Learning & AI

- Supervised & Unsupervised Learning
- Predictive Modeling
- Multimodal Learning
- Model Evaluation & Optimization

Data Science

- Feature Engineering
- Data Processing & Analysis
- Statistical Modeling

Tools & Frameworks

- Python
- Scikit-learn
- XGBoost / LightGBM
- TensorFlow / PyTorch (*if applicable*)

Systems

- Linux
- Git

ACADEMIC EXPERIENCE

Assistant Lecturer — Technical Institute of Shekhan (2024 – 2025)

- Delivered foundational computing courses

Lecturer & IT Manager — Nawroz University (2021 – 2024)

- Taught Mobile Application Development
- Supported academic and research infrastructure

Lecturer — Duhok Private Technical Institute (2017 – 2021)

- Courses: System Analysis, Databases, Networks
- Supervised student projects

PROFESSIONAL EXPERIENCE (BRIEF)

Finance Manager & IT — Outrolado (2024 – 2026)

IT Specialist — Korek Telecom (2013 – 2014)

EDUCATION

PhD Studies in Computer Engineering (ongoing) — Firat University

M.Sc. in Computer Engineering — Eastern Mediterranean University

B.Sc. in Computer Science — University of Duhok

LANGUAGES

English, Kurdish, Arabic, Chaldean (Fluent)