CURRICULUM VITAE

Dr. Slim Ezzedine BEN CHAABANE

1. Education

Degree	Discipline	Institution	Year
B.S.	Automatism and Industrial Data Processing	University of Tunisia	2004
Master	Automatic and Image Processing	University of Tunisia in collaboration with a French University	2006
Ph.D.	Electrical Engineering and Digital Signal Processing	University of Tunisia in collaboration with a French University	2010

2. Academic Experience

Institution	Rank	Dates Held	Status
University of Tunisia	Contractual Assistant	2007–2010	Full-Time
University of Tunisia	Assistant	2010–2013	Full-Time
University of Tunisia	Assistant Professor	2013–2015	Full-Time
University of Tabuk	Assistant Professor	2015–2020	Full-Time
University of Tabuk	Associate Professor	2020–Present	Full-Time

3. Non-Academic Experience

Organization	Title	Duties	Dates	Status
University of Tunisia	Master Coordinator	Supervision of Master's Projects	2013–2015	Full-Time
University of Tunisia	Chair of the Master's Selection	Student Selection	2013–2015	Full-Time

Committee

4. Certifications and Professional Registrations

• MATLAB

5. Membership in Professional Organizations

- Member of Academic Affairs Unit at FCIT, University of Tabuk 2025-Present.
- Member of Measurement and Evaluation Unit at FCIT, University of Tabuk 2025-Present.
- Member of Quality assurance Unit at FCIT, University of Tabuk 2015-2025.
- Member of SICISI (Signal, Image, Intelligent Control and Industrial Systems), 2006–2013.
- Member of LIME, University of Tunisia.
- Member of the Laboratory for Innovation Technologies (LTI-UPRES EA3899), Electrical Power Engineering Group (EESA), University of Picardie Jules Verne.

6. Service Activities

- Chair of the Master's Selection Committee, University of Tunisia.
- Member of the Master's Coordination Committee, University of Tunisia.

7. Selected Publications (2021–2026)

1. **Development of Surveillance Robots Based on Face Recognition Using High-Order Statistical Features and Evidence Theory.** Journal of Imaging (Q2), 2026.
2. **Home Security System with Hybrid Face Recognition Approach Using Convolutional Neural Networks, Fuzzy Logic, and SVM Classifier.** Multimedia Tools and Applications (Q2), 2026.
3. **Deciphering immune evasion mechanisms in precision oncology: insights from single-cell multiomics approaches**. International Journal of Surgery (Q1), 2026.
4. **A MULTI-STAGE MACHINE LEARNING FRAMEWORK FOR EFFECTIVE SQL INJECTION DETECTION USING DATA AUGMENTATION AND CONTEXTUAL FEATURE EXTRACTION**. Scientific Culture. (Q1), 2026.
5. **An Indirect Measurement Approach of a Uniform Transformer Winding Inductances Using Frequency Response Analysis Data: An Analytical Approach.** IET Electric Power Applications. (Q2), 2026.
6. **Development and enhancement of metamaterial-inspired Ag-GaAs THz MIMO antenna with optimized diversity metrics using data-driven machine learning algorithms for future 6G networks**. Scientific Reports
7. **Optimization of energy consumption and thermal comfort in stratum ventilation systems using metaheuristic-tuned neural networks and generalized normal distribution algorithm**. Energy and Buildings, (Q1), 2025.
8. **Smart agriculture: IoT-Based smart irrigation with advanced fuzzy logic control.** Expert Systems with Applications, (Q1), 2025.

9. **Power quality improvement and energy management in hybrid microgrids using a dual-optimization approach.** Scientific Reports. (Q1), 2025.
10. **Securing Restricted Zones with a Novel Face Recognition Approach Using Face Feature Descriptors and Evidence Theory.** Computers, Materials & Continua (Q1), 2026.
11. **Smart Agriculture: IoT-Based Smart Irrigation with Advanced Fuzzy Logic Control.** Expert Systems With Applications (Q1), 2025.
12. **Iris Recognition System Using Advanced Segmentation Techniques and Fuzzy Clustering Methods for Robotic Control.** Journal of Imaging (Q2), 2024.
13. **A 3D Processing Technique to Detect Lung Tumor.** IJACSA, 2023.
14. **Face Recognition Based on Statistical Features and SVM Classifier.** Multimedia Tools and Applications (Q2), 2022.
15. **Color Edge Detection Using Multidirectional Sobel Filter and Fuzzy Fusion.** Computers, Materials & Continua (Q1), 2022.
16. **Facial Expression Recognition System Using Histogram of Oriented Gradients and Ensemble Deep Learning Networks for Smart Home Automation** – Journal of Imaging (Q2), 2026.