Curriculum vitae

PERSONAL INFORMATION

Ali Wali

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POSITION

HdR. Dr. Eng. @ REGIM Lab., Associate Professor, ISIM Sfax University, Tunisia

WORK EXPERIENCE

2018–2023 — Associate Professor in Computer Science
Higher Institute of Computer Science and Multimedia, Sfax (Tunisia)

2014–2018 — Assistant Professor in Computer Science
Higher Institute of Computer Science and Multimedia, Sfax (Tunisia)

2013–2014 — Assistant Professor in Computer Science
Higher Institute of Management and Computer Science, Kairouan (Tunisia)

2010–2013 — Assistant in Computer Science
Higher Institute of Management and Computer Science, Kairouan (Tunisia)

2005–2010 — Contractual Assistant in Computer Science
Higher Institute of Computer Science and Multimedia, Sfax (Tunisia)

EDUCATION AND TRAINING

2013–2017 — HdR in Computer Science
National Engineering School of Sfax (Tunisia)

- **Title of HdR thesis:** Intelligent Multimedia Content Extraction, Recognition, Representation and Analysis

2006–2013 — Doctoral Philosophy in Computer Science
National Engineering School of Sfax, Sfax (Tunisia)

- **Title of doctoral thesis:** Event detection from video surveillance dataset: applied to video indexing and retrieval

2003–2005 — Master degree in Computer Science
National Engineering School of Sfax, Sfax (Tunisia)

Title of master thesis: Video indexing and retrieval based on text contents

2000–2003	**Engineer's degree on Computer Sciences**
	National Engineering School of Sfax (Tunisia)

PERSONAL SKILLS

Mother tongue(s)   Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	B2	B2	B2	B2
French	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Extensive experience living and working with groups of people from different countries/backgrounds gained through my work experience as a volunteer or as paid staff. This allowed me to adapt quickly:
  - □ to develop my skills in leading/ managing groups/ teams,
  - □ to negotiate and mediate to achieve aims,
  - □ to multicultural settings in different contexts and have a good awareness on intercultural relations

Organisational / managerial skills

- Leadership/ team management (several times responsible for international teams of 5-10 persons),
- Good experience in project cycle and management, in networking,
- Sense of organisation (experiences in logistics, in events management).

Job-related skills

- Mutimedia Data Mining and Analysis
- Data Mining Applications in Science, Engineering, Healthcare and Medicine
- Big Data Algorithm and Applications and Social Media Analysis
- Cloud Computing
- Software Testing and Quality Control

- Artificial Intelligence, Machine Learning and Deep Learning
- Software / Applications: Microsoft Office, Adobe (Photoshop, Illustrator, Dreamweaver, Flash,Director, ...), SQL Server, MySQL, PG SQL, Oracle, Crystal Reports, MS Visio, MS Project,Rational Rose, Lotus Notes,...
- Languages and scripts: C, C++, Visual Basic, Visual C++, PL/SQL, Java, JavaScript, HTML,DHTML, HTTP/1, HTTP/1.1, Pop Server, TCP/IP, SQL, Oracle PL/SQL, PERL, J2EE,ODBC/JDBC, Python, PHP, MySQL, PostScript, EJB, XML, ANT, AWK, Cascading Style Sheets(CSS), Coldfusion, Active Server Pages (ASP, ASPX)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

ADDITIONAL INFORMATION

Publications

* **I Ouali, R Fourati, MB Halima, A Wali**, A Novel Method for Arabic Text Detection with Interactive Visualization, 2023 IEEE Symposium on Computers and Communications (ISCC), 1046-1050.

* **EB Talal, ZA Oraibi, A Wali**, Gait Recognition using Deep Residual Networks and Conditional Generative Adversarial Networks , 2023 IEEE 47th Annual Computers, Software, and Applications Conference.

* **M Jabberi, A Wali, B Neji, T Beyrouthy, AM Alimi**, Face ShapeNets for 3D Face Recognition, IEEE Access, 2023.

* **I Ouali, MB Halima, A Wali,** An augmented reality for an arabic text reading and visualization assistant for the visually impaired, Multimedia Tools and Applications, 2023.

* **I OUALI, MBEN HALIMA, N MASMOUDI, M AYADI, L ALMUQREN, W Ali**, Augmented Reality and Ontology-based Approach for Enhancing Arabic Text Recognition and Visualization, 2023.

* **M Jabberi, A Wali, BB Chaudhuri, AM Alimi**, 68 landmarks are efficient for 3D face alignment: what about more? 3D face alignment method applied to face recognition, Multimedia Tools and Applications, 1-35, 2023.

* **N Yahyaoui, M Neji, M Kallel, A Wali, S Hajji**, A comparative approach of ML algorithms to rank irrigation water quality: case of Oriental-Coast shallow aquifer in Cap-Bon, northeastern of Tunisia, Modeling Earth Systems and Environment, 1-14, 2023.

* **M Jabberi, A Wali, AM Alimi**, Generative data augmentation applied to face recognition, 2023 International Conference on Information Networking (ICOIN), 242-247, 2023.

* **SB Ali, Z Kechaou, A Wali**, Arabic fake news detection in social media Based on AraBERT, 2022 IEEE 21st International Conference on Cognitive Informatics & Cognitive, 2022.

* **PO Salomon, Z Kechaou, A Wali**, Arabic hate speech detection system based on AraBERT, 2022 IEEE 21st International Conference on Cognitive Informatics & Cognitive, 2022.

* **I Ouali, MB Halima, W Ali**, Real-time application for recognition and visualization of arabic words with vowels based dl and ar, 2022 International Wireless Communications and Mobile Computing (IWCMC), 678-683, 2022.

* **Y Didi, A Walha, A Wali**, COVID-19 tweets classification based on a hybrid word embedding method, Big Data and Cognitive Computing 6 (2), 58, 2022.

* **I Ouali, MB Halima, A Wali**, Text detection and recognition using augmented reality and deep learning, International conference on advanced information networking and applications, 2022.

* **Y Didi, A Walha, MB Halima, A Wali**, COVID-19 Outbreak Forecasting Based on Vaccine Rates and Tweets Classification, 2022.

* **I OUALI, MBEN HALIMA, W Ali**, Augmented reality for scene text recognition, visualization and reading to assist visually impaired people, Procedia Computer Science 207, 158-167, 2022.

* **OB Said, A Wali, AM Alimi**, An Automatic System to Enhance Videos for a Learning Experience, Using an Interlinking Technique, Journal of Software 17 (5), 192-206, 2022.

* **W Elleuch, A Wali, AM Alimi**, Time-dependent ant colony optimization algorithm for solving the fastest traffic path finding problem in a dynamic environment, 2021 IEEE International Conference on Systems, Man, and Cybernetics, 2021.

* **I Ouali, MS Hadj Sassi, M Ben Halima, A Wali**, Architecture for real-time visualizing arabic words with diacritics using augmented reality for visually impaired people, International conference on advanced information networking and applications, 2021.

* **Y Soussi, N Rokbani, A Wali, AM Alimi**, Multi-objective quantum moth flame optimization for clustering, Enabling Machine Learning Applications in Data Science: Proceedings of Arab, 2021.

* **H Mzoughi, I Njeh, A Wali, MB Slima, A BenHamida, C Mhiri**, Deep multi-scale 3D convolutional neural network (CNN) for MRI gliomas brain tumor classification, Journal of Digital Imaging 33, 903-915, 184, 2020.

* **W Elleuch, A Wali, AM Alimi**, Neural congestion prediction system for trip modelling in heterogeneous spatio-temporal patterns, International Journal of Systems Science 51 (8), 1373-1391, 12, 2020.

* **I Ouali, MSH Sassi, MB Halima, W Ali**, A new architecture based ar for detection and recognition of objects and text to enhance navigation of visually impaired people, Procedia Computer Science 176, 602-611, 18, 2020.

* **Y Didi, A Walha, A Wali**, Data-driven Model for Influenza Prediction Incorporating Environmental Effects, IoTBDS, 15-24, 2020.

* **H Elleuch, A Wali**, Unwearable multi-modal gestures recognition system for interaction with mobile devices in unexpected situations, IIUM Engineering Journal 20 (2), 142-162, 2019.

* **Y Aribi, W Ali**, Kidney Segmentation in Scintigraphic Sequences Data using Multi-Agent Approach, Applied Medical Informatics 41 (2), 65-76, 2019.

* **S ABDELHEDI, A WALI, AM ALIMI**, Human action recognition using Spatio-temporal Histogram of Structure Tensors descriptor, Journal of Information Assurance & Security 14 (3), 2019.