

**Dr. Ikram MOALLA**  
**Assistant Professor in Computer Science**

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### **GENERAL INFORMATION**

Research Laboratory ReGIM-Lab. REsearch Groups in Intelligent Machines (LR11ES48)  
Current Assistant Professor  
Position Department of Computer Science and Information  
Technology University of Albaha, KSA.

### **RESEARCH TOPICS**

- o Deep Open Classification of Text images
- o Deep document layout recognition
- o Deep Vision Data
- o Deep palaeography

### **EDUCATION**

**2004-2009** : *PhD* in Computer Science, National Institute for Applied Sciences (INSA of Lyon), Lyon - FRANCE and National School of the Engineers of Sfax-Tunisia(ENIS), Sfax- TUNISIA.

Supervisors: Prof. Hubert Emptoz, Prof. Frank Lebourgeois, and Prof. Adel M. Alimi  
Thesis in guardianship between the INSA of Lyon and the ENIS, prepared in LIRIS (Laboratory of Computing, Imaging and Information systems //liris.cnrs.fr) and REGIM (REsearch Group on Intelligent Machines //www.regim.org/) laboratories.  
Thesis title: *Characterization of the medieval writings by statistical methods based on the cooccurrences.*

**2000** : *Master* in Computer science: Instrumentation and Command for the Systems of Vision University and INSA of Rouen (Rouen, France)  
Thesis title: Discrimination of multilingual documents: application to the Arabic and Latin, printed and handwritten documents, PSI Laboratory (Rouen- France).

**1999** : *Bachelor* degree in computer Science, University of Sfax.

### **TRAININGS AND PROFESSIONAL EXPERIENCES**

**2015-Currently**: Assistant Professor in the department of computer science and Information technology of Albaha University – KSA.

**2010-2015**: Assistant Professor in the department of computer science and applied mathematics at national school of engineering of Sfax (ENIS), University of Sfax- Tunisia.

**2008-2010**: Teaching Assistant in the department of computer science and applied mathematics at ENIS, University of Sfax-Tunisia.

**2007-2009**: Teaching and research associate at INSA of Lyon – University of Lyon- France

(partial time)

**2002-2008:** Teaching Assistant in the High institute of Computing and Multimedia of Gabes

**2003:** Training (1 month), Identification of Arabic, Latin script / at the level word Laboratory LORIA (team READ), Nancy, France.

**2001-2002:** Teaching Assistant at the National School of Engineers of Sfax.

**2000-2001:** Teaching Assistant in the FSEG, university of Sfax.

**2001:** Training (1 month), high dimensional classification, PSI Laboratory (Perception, System and information), Rouen - France.

## PUBLICATIONS

- I. Maroua Tounsi, Ikram Moalla and Adel.M. Alimi, "Arabic and Latin Scene Text Recognition by Combining Handcrafted and Deep Learned Features", "Arabian Journal for Science and Engineering", October 2021. ( Q1).
- Maroua Tounsi, Ikram Moalla, Frank Lebourgeois, Adel M. Alimi: ARASTI database. IEEE DataPort, 2021
- Maroua Tounsi, Ikram Moalla, Frank Lebourgeois and Adel.M. Alimi, "CNN Based Transfer Learning for Scene Script Identification". In: Neural Information Processing - 24th International Conference, ICONIP 2017, Guangzhou, China, November 14-18, 2017. (Rank A).
- Maroua Tounsi, Ikram Moalla, Frank Lebourgeois and Adel.M. Alimi, "ARASTI: A Database for Arabic Scene Text Recognition". In: first International Workshop on Arabic Script Analysis and Recognition", ASAR 2017, Nancy, France, April 3-5, 2017, pp. 140– 144.
- Maroua Tounsi, Ikram Moalla and Adel M. Alimi, "Supervised dictionary learning in BoF framework for Scene Character recognition". In: 23rd International Conference on Pattern Recognition, ICPR 2016, Cancun, Mexico, December 4-8, 2016. (Rank B).
- Maroua Tounsi, Ikram Moalla, Adel M. Alimi and Frank Lebourgeois, 'Feature Representation using Sparse Coding for Robust Arabic Characters Recognition in Natural Scenes', ICDAR 2015 (Rank A).
- M. Tounsi, I. Moalla, F. Le Bourgeois, A. M. Alimi, "A comparative study of local descriptors for Arabic character recognition on mobile devices", International Conference on Machine Vision. Milan, Italy, Nov 19-22, 2014 (Rank C).
- I. Moalla, F. Le Bourgeois, A. M. Alimi, "Generalized Eigen Cooccurrence: Application to Palaeography", International Conference on Document Analysis and Recognition (ICDAR), IEEE ed. Washington DC., Aug 25-28, 2013 (Rank A).
- I. Moalla, F. Le Bourgeois, A. M. Alim, " Classification of Medieval Writings by New Statistical Measures", International Graphonomics Society Conference, Nara, Japan, June 10-13, 2013.
- I. Moalla, F. Le Bourgeois, H. Emptoz, A. M. Alimi, "E-Palaeography system for ancient Arabic manuscripts", The 5th International Conference on Innovations in Information Technology, United Arab Emirates University, United Arab Emirates, December 16-18, 2008.
- I. Moalla, F. Le Bourgeois, H. Emptoz, A. M. Alimi, "Image Analysis for Palaeography Inspection", DIAL, Lyon, France, Avr 28-29, 2006, p303-311.
- I. Moalla, F. Le Bourgeois, H. Emptoz, A. M. Alimi, "Contribution to the discrimination of the medieval manuscript texts: Application in the palaeography", 7th IAPR Workshop on Document Analysis Systems, Nelson, New Zealand, 13-15 Feb, 2006, p25-37.

### **QUALITY SKILLS**

- ISO9001: Head of process research diploma of the Quality Management System for REGIM-Lab (Research Laboratory in Intelligent Machines) for 2 years (2014-2015),
- Internal Auditor since 2015
- FDX50-550 : Research Quality Approach - General Principles and Recommendations.
- ABET: Head of the Quality Management System Team for the female section, CS Dept, College of CSIT of Albaha University, since October 2015.

### **MEMBERSHIPS**

- Since Sep. 2000 Member of Research Groups on Intelligent Machines (REGIM Laboratory)
- Since April 2002 Graduate Student Member of Institute of Electric and Electronic Engineering (IEEE) (23 years)
- 2010 : IEEE GOLD Tunisia Anity Group, Chair (1 year)

## **REVIEWING ACTIVITIES, ORGANIZATION AND PARTICIPATION IN SCIENTIFIC ACTIVITIES**

I was the organizer of the WIMTA'32 workshop which was held from December 25 to 27, 2020 in Sfax.

I was a program committee member at the following conferences and workshops:

- The 1st International Workshop on Arabic Script Analysis and Recognition (ASAR 2017), April 3-5, Nancy-France.
- The 13th IAPR International Conference on Document Analysis and Recognition (ICDAR 2015), August 23-26, 2015, Nancy- France.
- The 5th International Conference of Soft Computing and Pattern Recognition (SoCPaR 2014), August 11-14, 2014, Tunis-Tunisia.
- The IAPR journal, Pattern Recognition Letters, Elsevier (PRL during 2012, 2013, 2014)

## **PROFESSIONAL DEVELOPMENT ACTIVITIES (MOST RECENT)**

- Workshop on “initiation to ABET Accreditation”,
- Workshop on “Requirements of ISO 9001: 2008 and Principles of FDX 50-550”
- Workshop on “Training of trainers”
- Workshop on “English for Communication & Research”.
- Workshop on “Leadership Winter School LWS'2011”
- Workshop on “Application of research methodologies in information systems research”.
- Workshop on Intelligent Machines: Theory and Application WIMTA editions from 3-23

## **EVALUATION ACTIVITIES**

- I was a program committee member in the evaluation of the annual Research Reports to the renewing inscriptions of the PHD students for the Laboratory REGIM (for 5 years).
- I was a program committee member in the evaluation of final year projects and master projects (for 14 years).