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Ahmed Otman Lawgali

Personal Information

Martial Status: Married

Nationality: Libyan

Place of Birth: Benghazi - LIBYA

Date of Birth: 1969

Education

2013   **PhD. in Computer Science**
Thesis title*: Investigation of Arabic Handwriting Recognition Based on Segmentation.*
Northumbria University
United Kingdom

2006   **M.Sc. Degree in Computer Science**
Thesis title: *Traceability of Unified Modeling Language Diagrams from Use Case Maps.*
Academy of Post Graduate Studies
Benghazi Branch - Libya

1993   **B.Sc. in Computer Science**
Faculty of Science
University of Garyounis
Benghazi - Libya

Languages

Arabic (Mother Tongue) – English

Professional experience

2016 – Present
Faculty of Information Technology - Benghazi University
Assistant professor, Department of Information Sciences

2013 – 2016
College of Arts and Sciences (Al Abyar) - Benghazi University
Lecturer and a Head of Computer Science Department

2007 – 2013
College of Arts and Sciences (Al Abyar) - Benghazi University
Assistant Lecturer

March 2001 – January /2007
United Insurance Company Benghazi Branch - Libya
Head of Computer Section.

November 1997 – March 2001
Altareq Company for Computer Services
Benghazi – Libya.
Lecturer and a Head of Programming Section, then a Head of Banks Supporting Section.

November 1993 – November 1997
Kortoba Company for Computer services
Benghazi – Libya.
Lecturer and Programmer.

Training

- **Wavelet Analysis with Matlab**, Northumbria University, 15th December 2010.

- **Research and Innovation**, Northumbria University, 24th November 2010.

- **Wavelet Workshop**, Northumbria University, 11th May 2010.

- **Academic Writing: getting published a beginner's guide for science**, Northumbria University, 27th April 2010.

- **Academic Teaching Skills: Surviving the Classroom**, Northumbria University, 12th March 2010.

- **SPSS (Advanced Workshop)**, Northumbria University, 12th February 2010.

- **SPSS (Introduction)**, Northumbria University, 11th February 2010.

- **Using Web 2.0 Technologies for Collaboration and Managing Information**, Northumbria University, 18th February 2009.

- **Citation Searching**, Northumbria University, 10th November 2009.

- **Introduction to Intellectual Property and Copyright**, Northumbria University, 15th October 2009.

- **Take Control: An introduction to managing project for PGR Students**, Northumbria University, 13th October 2009.

- **Conduction a literature review**, Northumbria University, 12th October 2009.

- **Oracle SQL & PL/SQL using Procedure Builder**.

- **Developer / 2000 : Build Forms**.

- **Triggers, Procedures and Packages for Oracle Developers and DBA's**.

- **(833) Implementing a Database on Microsoft SQL Server 7.0**

- **(983) Accelerated Training for Microsoft Windows NT**.

Publications

Journal

- Lawgali, A, Bouridane, A, Angelova, M, Ghassemlooy, Z, **_Handwritten Arabic Character Recognition: Which feature extraction method?,_** International Journal of Advanced Science and Technology, (2011), Vol. 34, pp. 1-8.

- Lawgali, A. Angelova, M. Bouridane, A. **_A Framework for Arabic Handwritten Recognition Based on Segmentation_**, International Journal of Hybrid Information Technology, (2014), Vol. 7, No. 5, pp. 413-428.

- Lawgali, A. , **_An Evaluation of Methods for Arabic Character Recognition_**, International Journal of Signal Processing, Image Processing and Pattern Recognition. (2014), Vol. 7, No. 6, pp. 221-220.

- Lawgali, A. **_A Survey on Arabic Character Recognition_**, International Journal of Signal Processing, Image Processing and Pattern Recognition. (2015), Vol. 8, No. 2, pp. 401- 426.

- Lawgali, Ahmed. **_Handwritten Digit Recognition based on DWT and DCT_**, International Journal of Database Theory and Application. (2015), Vol. 8, No. 5, pp. 215- 222.

- Lawgali, Ahmed. **_Recognition of Handwritten Digits using Histogram of Oriented Gradients_**, International Journal of Advanced Research in Science, Engineering and Technology. (2016), Vol. 3, No. 7, pp. 2359 - 2362.

- Lawgali, Ahmed. **_Traceability of Unified Modeling Language Diagrams from Use Case Maps,_** International Journal of Software Engineering & Applications (IJSEA), Vol.7, No.6, (2016), pp. 89-100

Conference

- Lawgali, A, Bouridane, A, Angelova, M, Ghassemlooy, Z, **_Automatic segmentation for Arabic characters in handwriting documents_**, 18th International Conference on Image Processing (_ICIP2011_), pp. 3590-3593, Belgium, September (2011)

- Lawgali, A., Angelova, M., Bouridane, A, *HACDB: Handwritten ArabicCharacters Database for Automatic character recognition*, 4th European Workshop on Visual Information processing, pp. 255-259, Paris, France, June (2013).

Posters

- Lawgali, A. *Investigation of Arabic Handwriting Recognition Based on Segmentation, Group 28: The XXVIII International Colloquium on Group - Theoretical Methods in Physics*, Newcastle, UK (2010).

- Lawgali, A. *Handwritten Arabic Character Recognition Using DCT*, Research –Teaching Forum, Nortumbria University, UK, (2010).

- Lawgali, A. *Handwritten Recognition Based on Segmentation*, Northumbria Research Conference, Newcastle, UK, (2011).

- Lawgali, A., Bouridane, A, Angelova, M, Ghassemlooy, Z., *Automatic segmentation for Arabic characters in handwriting documents*, 18th International Conference on Image Processing, Belgium, (2011)

- Lawgali, A. *A Framework for Arabic Handwritten Recognition,* Northumbria Research Conference, Newcastle, UK, (2012).

- Poster's prize in Northumbria Research Conference, Research Poster Competition, Newcastle, UK, (2011).

Presentation

- Lawgali, A. *Arabic Handwriting Recognition*, Intelligent Modeling Lab Research Group, Northumbria University, 16th September 2009.

- Lawgali, A. *Automatic segmentation for Arabic characters in handwriting documents*, Faculty of Engineering and Environment Research Seminar, Northumbria Unversity, 8th December 2010.

- Lawgali, A. *Handwritten Arabic Character Recognition: Which feature extraction method*, International Conference on Emerging Security Technologies, Preston, UK, (2011).

- Lawgali, A. *A Framework for Arabic Handwritten Recognition,* , Faculty of Engineering and Environment Research Seminar, Northumbria Unversity, 6th July 2011.

- Lawgali, A. *Investigation of Arabic Handwriting Recognition Based on Segmentation*, Faculty of Engineering and Environment Research Seminar, Northumbria Unversity, 22th February 2012.

Research Interests

- Pattern Recognition
- Handwriting Analysis and Recognition
- Document Recognition
- Biometrics (Fingerprint and Palm print).

Courses Taught

- Programming (Pascal, C, and Java)
- Data Structures and Algorithms
- Discrete Math and Structures
- Software Engineering
- Database Systems
- Artificial Intelligence
- Operating System
- Computer Vision and Image Processing
- System Analysis and Design
- Research Methods
- E-Business Technology and Management
- E-Commerce and Marketing

References

Prof. Maia Angelova
Professor of Mathematical Physics
Department of Mathematics and Information Science
Nortumbria Unviersity
Newcastle Upon Tyne, UK
Email: maia.angelova@northumbria.ac.uk

Prof. Ahmed Bouridane
Professor of Computer Science

Department of Computer Science and Digital Technologies
Nortumbria Unviersity
Newcastle Upon Tyne, UK
Email: ahmed.bouridane@northumbria.ac.uk