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ORCID : <https://orcid.org/0000-0002-2192-3504>



## Mona Abdelbaset Sadek Ali, BSc, MSc, PhD, Associate Professor

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### Research Interests

**I'm currently joining a research project with some of my friend that focusing on how to use deep learning to detected the infected patient by COVID 19 from CT scan and X-rays.**

I'm interested in Image processing and pattern recognition where a Iris recognition system has been developed as an undergraduate project using visual C++ and Landmine detection as pre-master project by using Matlab. For video processing I've developed a system that automatically detects the type of video shots. This system has been implemented on Matlab. I'm also interested in social network analysis and mobile computing as I applied different social network analysis tools in my PhD to find the relationship between offline and online networks between students using Bluetooth devices. I'm currently direct all my research for medical diagnosis for different diseases such as breast cancer and skin cancer.

### Education & Qualification

PhD

Project: Identifying and Comparing Opportunistic Networks & Social Networks

My research is focusing on utilizing the pervasive computing to extract the social network between users inside organization. Mainly I'm interested in using Bluetooth to extract the indoor mobility tracking of users. These mobility data will be used to extract the opportunistic network between them. Passed my viva on 8<sup>th</sup> April 2013 with minor corrections.

**PhD of Computer Science , School of Computer Science & Informatics, Cardiff University**

Viva : April 2013

Obtained: June 2013

MSc

Pre-master of Computers and Information school in Information Technology, May 2003

Project: Landmine Detection in Egypt

**MSc of Computers and Information school, Cairo University  
Information Technology department**

Topic: Segmentation of Video shots

Case Study : All kind of Videos

Registered : January 2004  
Discussed: May 2005  
Obtained : 28 June 2005

BSc **BSc of Computers and Information school very good degree with honor , Information Technology department, Cairo University, Egypt**  
May 2002  
Graduation Project: IRIS Recognition  
GPA : 3.42

A level I had my A Level with degree of 96.25% in mathematical science

## Publications

### Published Papers in Refereed International Journals

- 1) Ahmed Afifi \*, Noor E. Hafsa, Mona A. S. Ali, Abdulaziz Alhumam, Safa Alsaman. "An Ensemble of Global and Local-attention based Convolutional Neural Networks for COVID-19 Diagnosis on Chest X-ray Images " **Symmetry,MPDI**  
**[Scopus– Web of Science ]**
- 2) Ammar Abdulrahman Ahmed, Mona AS Ali, Mazen Selim "Bio-inspired Based Techniques for Thermogram Breast Cancer Classification". **International Journal of Intelligent Engineering and Systems**, Volume 12, Issue 2, PP 114-124, 2019  
**[Q2 – Scopus Indexed]**
- 3) Mona A. S. Ali \*, Mohamed Abd-Elfattah, "A Hybrid Model (SVM-LOA) for Epileptic Seizure Detection in Long-Term EEG Records Using Machine Learning Techniques." **International Journal of Intelligent Engineering and Systems** 11(5), 2018.  
**[Q2 – Scopus Indexed]**
- 4) Abd-Elfattah, M. and Ali, M.A., "An Experimental Model of a Qualitative Decision Support System for Quality Assessment Support at Higher Education Institutions." **European journal of Scientific Research**, 2018  
**[ISI web of science- Scopus Indexed]**
- 5) Talal Mohammed Meshal Alenezi and Mona A. S. Ali ,Diaa Salama Abd-Elmiaam, "smartsepog: IOT based system for enhancement of the performance of KJO oil and gas fields in Kuwait". **Far East Journal of Electronics and Communications**, 18(6), 915-944, 2018..  
**[Q4- IF 1.4]**
- 6) Y.M. Wazery and Mona A.S. Ali \*, "An Intuitionistic Fuzzy Sets Implementation for Key Distribution in Hybrid Message Encryption Over WSNs". **Research Journal of Applied Sciences**,13(10), 2018.  
**[Q2 – Scopus Indexed]**

- 7) Minaam, D.S.A., Abd-ELfattah, M. and Ali, M.A., “Design of an Internet of Things (IoT) network system for Kitchen food waste management”. **IJCSNS International Journal of Computer Science and Network Security**, 18(5), p.130, 2018..

[proQuest]

- 8) Ali, M.A.\*, Houssein, E.H., Eldemerdash, N.A. and Hassanien, A.E. “Increasing the hiding capacity in image steganography using Braille code.” **International Journal of Intelligent Engineering Informatics**, 5(4), pp.327-341, 2017.

[Emerging Sources Citation Index (Clarivate Analytics)]

(\* ) Corresponding Author

### Published Papers in Refereed International Conferences

- 9) Houssein, E.H., Ali, M.A.\* and Hassanien, A.E., “An image steganography algorithm using Haar Discrete Wavelet Transform with Advanced Encryption System”. **In Computer Science and Information Systems (FedCSIS), 2016 Federated Conference on** (pp. 641-644). 2016, September, IEEE.
- 10) Sayed, G.I., Ali, M.A., Gaber, T., Hassanien, A.E. and Snasel, V., “A hybrid segmentation approach based on Neutrosophic sets and modified watershed: A case of abdominal CT Liver parenchyma”. **In 2015 11th International Computer Engineering Conference (ICENCO)** (pp. 144-149). 2015, December IEEE.
- 11) Mokhtar, U., Ali, M.A., Hassenian, A.E. and Hefny, H., “Tomato leaves diseases detection approach based on Support Vector Machines”. **In 2015 11th International Computer Engineering Conference (ICENCO)** (pp. 246-250). 2015, December, IEEE.
- 12) Ali, M.A.\*, Shaalan, M.I., Hassanien, A.E. and Kim, T.H. “A Simple Approach for Segmentation and Removal of Interphase Cells from Chromosome Images”. **In Computer and Computing Science (COMCOMS), 3rd International Conference on** (pp. 3-8). 2015, October, IEEE.
- 13) Ali, M.A.\*, Sayed, G.I., Gaber, T., Hassanien, A.E., Snasel, V. and Silva, L.F., “Detection of breast abnormalities of thermograms based on a new segmentation method”. **In Computer Science and Information Systems (FedCSIS), 2015 Federated Conference on** (pp. 255-261). 2015, September, IEEE.
- 14) Gaber, T., Ismail, G., Anter, A., Soliman, M., Ali, M., Semaary, N., Hassanien, A.E. and Snasel, V., “Thermogram breast cancer prediction approach based on Neutrosophic sets and fuzzy c-means algorithm”. **In 2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)** (pp. 4254-4257). 2015, August, IEEE.
- 15) Mokhtar, U., Ali, M.A., Hassanien, A.E. and Hefny, H., 2015.” *Identifying two of tomatoes leaf viruses using support vector machine*”. **In Information Systems Design and Intelligent Applications** (pp. 771-782). Springer India.
- 16) Ali, M.A. and Hassanien, A.E., “An observational study to identify the role of online communication in offline social networks”. **In International Conference on Advanced Machine Learning Technologies and Applications** (pp. 509-522). 2014, November, Springer International Publishing.

## Work Experience

2020 Fall Semester

Assistant Professor @ CCSIT, King Faisal University, KSA. Object Oriented Programming I, Object Oriented Programming II and Mobile Computing

2020 Spring Semester

Assistant Professor @ CCSIT, King Faisal University, KSA. Fundamental of Programming, Computer Data Security and Mobile Computing

2019 Fall Semester

Assistant Professor @ CCSIT, King Faisal University, KSA. Computer Data Security and Mobile Computing

2019 Spring Semester

**Associate Professor** @ FCI, Benha University  
Assistant Professor @ CCSIT, King Faisal University, KSA. Fundamental of Programming, Computer Data Security and Mobile Computing

2018 Fall Semester

Assistant Professor @ CCSIT, King Faisal University, KSA. OOP1 and Mobile Computing

2018 Spring Semester

Assistant Professor @ CCSIT, King Faisal University, KSA. Computer Data Security and Mobile Computing

2017 Spring Semester

Assistant Professor @ FCI, Benha University  
Computer Architecture, Networks (CISCO),

2017 Autumn Semester

Assistant Professor @ FCI, Benha University  
OOP, Information technology ethics, Digital Logic design

2016 Spring Semester

Assistant Professor @ FCI, Benha University  
Computer Architecture, Networks (CISCO),

PC member @ AISI 2015 conference

2014 and 2015 Spring Semester

Lecturer @ FCI, Minia Univesity  
Graphics, Formal Language, Computer Architecture,  
Information System

2013 and 2014 Autumn Semester

Lecturer @ FCI, Minia Univesity  
File Organization, Compiler, Formal Language,  
Image processing

2012 Autumn Semester

Computational Thinking, Problem Solving  
with Python,  
Web Applications

2012 Spring Semester

Scientific Computing and Multimedia  
Applications,Advanced Programming,  
Fundamental for computing with  
java, Professional Skills

2011 Autumn Semester

Computational Thinking, Problem Solving  
with Python,  
Web Applications

2011 Spring Semester

Scientific Computing and Multimedia  
Applications,Advanced Programming,  
Fundamental for computing with  
java, Professional Skills

2010 Spring Semester

Human Computer Interaction

2010 Autumn Semester

Computational Thinking, Web Application,  
Problem Solving with Python

2009 Spring Semester

Assembly Language, HTML,PHP MySQL)

2009 Autumn Semester

Discrete Mathematics

September 2003 – April 2007

Assistant Lecturer at Faculty of Computers and  
Information Minia University, Egypt

October 2002 – June 2003

Suzan Mubarak Exploration Center for Science  
Virtual Reality  
(Build 3D models and apply texture on it) Full-  
time

June 2003 – October 2003

Bullet Proof Soft company System Analyst and Junior  
Programmer (Full-time job)

## Technical Skills

### Programming Languages

- Visual C/C++ Professional
- C# Basic
- Java ( application ,applet) Professional
- HTML Expert
- Prolog Basic
- SQL Expert
- Matlab Professional

## Other Skills

- Presentations Creation skill.
- Writing skills.
- Won the first Year Poster January 2009 in school of Computer Science & Informatics
- Won the third year poster January 2011 in school of Computer Science & Informatics

## Workshops

- 1- Introduce a presentation at Zewail City on 30/03/2015 with title “Segmentation and Removal of interphase cells using bit-slicing technique”
- 2- Attend Workshop Acadmia and industry 2014
- 3- Attend ITI workshop Mobile Developer Weekend 16-18 April 2015
- 4- Workshop for new release of Accreditation on education 29-05-2016

**Other activities:**

1. Participate in Scientific Research committee collage level and play a crucial role in creating IEEE student chapter at IEEE Computer Society.
2. Member in Graduation project Committee computer science department.
3. Member in Scientific Research Committee department level where I help in gather different source of project funding inside KSA
4. Member in Female faculty Affair Committee where help in reporting the problem that faced by my colleagues to the responsible person.
5. Member in AI Forum where I help in creating the brochure.
6. Member in Post Graduate committee for Computer Science where
  - I help in creating a cloud database for the GPC-CS documented work.
  - Also create a Database for all faculty members that includes their research interests.
  - In addition to creating a database for all registered students and their status.
  - Developing criteria for Distributing Master's subject for instructors.

**Languages**

- Arabic                      Native Language
- English                     Fluent
- French                      Fair