

Ahmed Shahin



I am Dr. Ahmed Shahin, I was ranked as the first of my class on both MSc and PhD degrees with honor degree. I have authored/co-authored more than 19 refereed journal papers with high impact factor (QI) and all of them are indexed in ISI, IEEE, MDPI, Elsevier and Springer. I have got several scientific grants from several organizations. On the practical side, I worked as a research engineer on about 20 projects over different engineering applications in different companies. I was working at NABDAA co. as a research engineer and head of the engineering team (retail industry, fleet management). This practical experience allowed me to acquire a lot of software and computer skills. I have a well-known experience with the following frameworks: Operating Systems: Windows, Linux. Programming languages: C++, C#, CUDA, Python, database, SQL, crystal reports and MATLAB. Website programming: Asp.Net. Have a professional experience with embedded systems: (Atmel, pic, Arduino, Raspberry pi and AVR). My research domain includes DSP, Image Processing, Machine Learning, Deep Learning, Parallel Computing, Cloud Computing, IOT, and Embedded Systems.

Birthday

25.7.1986

Experience

+ 10

 Riyadh, Saudi Arabia

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LANGUAGES

Arabic 

English 

Qualifications

2014-2018

PhD of Engineering and Systems

at Faculty of Engineering, Cairo University

Grade Point Average: 3.86/ 4.

Title: Development of pathological microscopic CAD systems using advanced computing and deep learning.

2009-2013

MSc of Engineering

at Faculty of Engineering, Helwan University

Grade Point Average: 3.65/ 4.

Title: A computer based speech disorders correction system for Arabic language Audio-Visual Speech Recognition.

Research Interests

Medical Image Processing

•X-Ray, Pathology, Echocardiography, MRI.

Video and Signal Processing

•Visual Speech, Speech Recognition, Surveillance Analysis, Action Recognition.

Remote Sensing

•Estimation, Classification, Detection.

Data Analysis

•Time-series Forecasting, Bioinformatics

Business Intelligence

•Financial, Economics

Scores

Publications 19

Books Chapter 2

Conference 2

Reviewed Articles 30

H-index 6

Citations 315

Benchmark Dataset 1



Selected Publications

A novel modular deep fully convolutional network for efficient low-resolution facial expression recognition

W Aly, **A.I. Shahin**, S Aly

Journal of Ambient Intelligence and Humanized Computing, Springer, 2023.

MBTFCN: A novel modular fully convolutional network for MRI brain tumor multi-classification

A.I. Shahin, S Aly, W Aly

Expert Systems with Applications, Elsevier, 2023.

A novel multi-class brain tumor classification method based on unsupervised PCANet features

A.I. Shahin, S Aly, W Aly

Neural Computing and Applications, Springer, 2023.

Exact and Heuristics Algorithms for Screen Line Problem in Large Size Networks: Shortest Path-Based Column Generation Approach

M Owais, **A.I. Shahin**

IEEE Transactions on Intelligent Transportation Systems, IEEE, 2022.

Impact of financial development and internet use on export growth: New evidence from machine learning models

N Shetewy, **AI Shahin**, A Omri, K Dai

Research in International Business and Finance, Elsevier, 2022.

A Novel White Blood Cells Segmentation Algorithm Based on Indeterminacy Attention of Encoder-Decoder Network

Y Guo, **A.I. Shahin**,

Expert Systems with Applications, Elsevier, 2023.

DCRN: An Optimized Deep Convolutional Regression Network for Building Orientation Angle Estimation in High-Resolution Satellite Images

A.I. Shahin and Sultan Almotairi



Selected Publications

A COVID-19 Pandemic Spread Forecasting Model Based on Encoding-Decoding BiLSTM Deep Learning Network

A.I. Shahin and Sultan Almotairi

Fractals and Fractions, MDPI, 2021.

SVA-SSD: Saliency Visual Attention Single Shot Detector for Building Detection in Low Contrast High-Resolution Satellite Images

A.I. Shahin and Sultan Almotairi

Peerj Computer Science, Peerj. 2021.

An Accurate and Fast Cardio-views Classification System Based on Fused Deep Features and LSTM

A.I. Shahin and Sultan Almotairi

IEEE Access, IEEE, July 2020.

A Deep Learning Identification System For Different Epileptic Seizure Disease Stages

Reham hessein, **A.I. Shahin** , Amr sharawy.

Journal of Engineering and Applied Sciences, 2021.

Automated Arabic Sign Language Recognition System Based on Deep Transfer Learning

A.I. Shahin and Sultan Almotairi

IJCSNS International Journal of Computer Science and Network Security, VOL.19 No.10, October 2019.

White Blood Cells Recognition System Based on Deep Residual Network

Sultan Almotairi and **A.I. Shahin**

IJCSNS International Journal of Computer Science and Network Security, VOL.19 No.10, October 2019.

White Blood Cells Identification System Based On Deep Convolutional Neural Network.

A.I. Shahin Yanhui Guo K. M. Amin, Amr A. Sharawi.

Computer Methods and programs in Biomedicine, Elsevier (2019): 168:69-80.



Selected Publications Cont...

A Novel White Blood Cells Segmentation Algorithm Based on adaptive Neutrosophic Similarity Score.

A.I.Shahin Yanhui Guo K. M. Amin, Amr A. Sharawi.

Health Information Science and Systems, Springer 6 (2018): 2:12.

A Novel White Blood Cells Segmentation Algorithm Based on adaptive Neutrosophic Similarity Score.

A.I.Shahin Yanhui Guo K. M. Amin, Amr A. Sharawi.

Health Information Science and Systems, Springer 6 (2018): 2:12.

A Novel Enhancement Technique for Pathological Microscopic Image Using Neutrosophic Similarity Score Scaling.

A.I.Shahin Yanhui Guo K. M. Amin, Amr A. Sharawi.

Optik, Elsevier 161 (2018): 84-97.

A Novel Breast Tumor Classification Algorithm Using Neutrosophic Score Features.

K. Amin, **A. I. Shahin**, and Yanhui Guo.

Measurement, Elsevier.81 (2016): 210-220.

A Robust Speech Disorders Correction System for Arabic Language Using Visual Speech Recognition.

A Farag, ME Adawy, **A Ismail**

Biomedical Research 24 (2) (2013)



Selected Book Chapters

Advanced Neutrosphic Set in Microscopic Image Analysis, 2019, Elsevier.

A.I.Shahin, Yanhui Guo and Amira S Ashour

Neutrosophic sets based denoising of optical coherence tomography images, 2019, Elsevier.

A.I.Shahin, Yanhui Guo and Amira S Ashour



Selected Conferences

A Computer-Aided Speech Disorders Correction System for Arabic Language.

Seddik, Ahmed Farag, Mohamed El Adawy, and **Ahmed Ismail Shahin.**

2013 2nd International Conference on Advances in Biomedical Engineering. IEEE.

ECG Telemedicine via ZIGBEE

Khaled Abbas, **Ahmed Ismail Shahin.**

2009, radio conference, Future University.



Computer and Software

Operating Systems

Windows, Linux.

Programming Languages

C++, C#, CUDA, Python, Database, SQL, Crystal Reports and Matlab.

Website Programming

Asp.Net.

Have a Professional experience with embedded systems

(ATMEL, PIC, AVR, ARM, Arduino, Raspberry PI and AVR)



Achievement

Academic

- One of the top Three in BSc class.
- The First in MSc Class.
- The First in PhD Class.
- Peer Reviewer in several Indexed Journals

Grants

- Deputy ship for Research and Innovation, , Ministry of Education in Saudi Arabia, project number (IFP-2020-17).
- Deanship of Scientific Research, Majmaah University (Grant no. RGP-2019-29).
- Deanship of Scientific Research, Majmaah University (Grant no. R-1441-18)
- NVidia TitanXp graphic card.
- Acceleration Program with NABDAA from BRINC for IOT applications.



PROFESSIONAL EXPERIENCE

2020-Present

Assistant Professor

at Department of natural and applied sciences, Community College, Majmaah University.

2018-2020

Lecturer

at BME, HTI

Teaching Image Processing, Microprocessor Systems, Embedded Systems, MRI, Digital Communication and Networks, Hospital Design, Advanced Biomedical Topics, Machine Learning.

2017-2018

Head of Engineers

at NABDAA

Innovation, Ideation, Technical Implementation, Software, Hardware, Smart Systems, IoT App.

2009 - 2017

Assistant Lecturer

at BME, HTI

Teaching Logic, Analog Electronics, Microprocessor Systems, Embedded Systems, Hospital Design, Advanced Biomedical Topics, Machine Learning, Image Processing, Pattern Recognition, Computer Interface.

2009 - 2009

Assistant Lecturer

at electrical engineering department, Oraby Academy.

Logic Circuits.

2010 - 2010

Assistant Lecturer

at mechatronics engineering department, Future University.

PIC Microcontroller.

2009 - 2010

Medical Planner

at Crescent Technology

Medical Planner at crescent technology company (Architectural Layout Room Data Sheet- Room List- Equipment Specifications). Supervision upon many projects such as: KFU Hospital, General Labs and Forensic

2009-2014

Research and Development Engineer

at Brilliance, Egyspark

Medical Planner at crescent technology company (Architectural Layout Room Data Sheet- Room List- Equipment Specifications).

Supervision upon many projects such as: KFU Hospital, General Labs ,Forensic Labs.

2009-2014

Courses Instructor

at Brilliance, Egyspark

Embedded Systems, Electronics, Matlab Programming, Hospital Design.



Student Activities

- TIEC Entrepreneurship scholarship, 2018.
- IEEE Computer Vision Camp, 2019.



References

Prof. Yanhui Guo.

Address: Department of Computer Science, University of Illinois Springfield, USA.

E-mail: yguo56@uis.edu

Prof. Khaled Amin

Address: Department of Information Technology, Faculty of Computers and Information, Menoufiya University.

E-mail: k.amin@ci.menofia.edu.eg, kh.amin.0.0@gmail.com

Prof. Saleh Aly

Department of Electrical Engineering, Faculty of Engineering, Aswan University Aswan, Egypt, 81542.

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