



Alyaa El-Sayed Amer

Egypt Mobile: +201067644012, UK Mobile: +447535789851

Email address: aamer@lincoln.ac.uk , alya.amer@hotmail.com, alya.amer@aast.edu

EDUCATION

Bachelor Degree, 2010

Arab Academy for Science and Technology, Computer Engineering department, Alexandria, Egypt

Master Degree: 2010 - 2013

Thesis: Network and security

Topics: Chord enabled key storage and lookup for mobile agent-based hierarchical wireless sensor network

Doctor of Philosophy Degree: 2015 – 2022

University of Lincoln, computer science department, Lincoln, United Kingdom

Topic: Deep Learning Methods For Medical Image Segmentation

EMPLOYMENT HISTORY

Arab Academy for Science and Technology (AAST): 2010- 2020

Teaching Assistant in Computer Engineering, Alexandria Campus

Arab Academy for Science and Technology (AAST): 2020- 2023

Teaching Assistant in Computer Science and Information Technology, smart Village Campus

Job Description:

- Lecturing for five different subjects at Computer Science
- Lecturing for some programming languages (Java , C and C#)
- Handling Administrative work in the accreditation committee (ABET)
- Handling Administrative work in the advising committee.
- Ongoing research in order to prepare for tutorials

Teaching Courses:

- Discrete Mathematics
- Digital Logic Design
- Digital System Design

- Numerical Analysis
- Structured programming
- VHSIC Hardware Description Language
- Introduction to Computing
- Digital image processing
- Introduction to problem solving

The college committees

- Committee member for program development
- Committee member for the college accreditation
- Committee member for national and international connection

Link dot net: 2009-2010

Technical support specialist in internet service provider, Alexandria, Egypt

Job Description:

- Supporting customers with technical problems
- Following up with customers

PUBLICATION

Amer, A., Adel, A. and Abu El-nasr, M. 2013, Chord-Enabled Key Storage and Lookup Scheme for Mobile Agent-Based Hierarchical WSN, Advances in Security of Information and Communication Networks: First International Conference, SecNet 2013, Cairo, Egypt, September 3-5, 2013. PP. 27-43.

Amer, A., Ye, X., & Janan, F. (2021). ResDUnet: A Deep Learning-Based Left Ventricle Segmentation Method for Echocardiography. *IEEE Access*, 9, 159755-159763.

Amer, A., Ye, X., Zolgharni, M., & Janan, F. (2020). ResDUnet: Residual Dilated UNet for Left Ventricle Segmentation from Echocardiographic Images. *2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC), 2019-2022*.

Amer, A., Lambrou, T., & Ye, X. (2022). MDA-Unet: A Multi-Scale Dilated Attention U-Net for Medical Image Segmentation. *Applied Sciences*.

Amer, A., Ye, X., & Janan, F. (2021). Residual Dilated U-net For The Segmentation Of COVID-19 Infection From CT Images. *2021 IEEE/CVF International Conference on Computer Vision Workshops (ICCVW)*, 462-470.

EVENTS

Summer Schools:

- MISS 2016: Medical Imaging Summer School, 31 July-6 Aug, Favignana Island, Sicily
- BMVA 2018: Computer Vision Summer School, 3 July- 7 July, Lincoln, UK

SKILLS/ PROFESSIONAL INTEREST

Interpersonal Skills:

- Excellent communication skills, cultural awareness, highly organized, work to deadlines
- Reading and Writing Skills in English and Arabic

Technical Skills:

- Programming Language: C, C#, Matlab, NS2, VHDL
- Network and security

Professional Interest:

- Medical Image Analysis
- Image processing
- Wireless Sensor Network
- Network Security

PERSONAL INFORMATION

- Marital status: Single
- Nationality: Egyptian
- Date of Birth: March 29th, 1986
- Place of Birth: Liverpool, England

LANGUAGES

- English (fluent and full professional proficiency)
- Arabic (Native)

REFERENCES

Prof.Xujiong Ye, Senior Lecturer in University of Lincoln, UK, xye@lincoln.ac.uk.

Prof. Ayman Adel, Prof in AAST, hamid@aat.edu.

Prof. Mohamad Abou El-Nasr, Prof. in AAST, mnasr@aat.edu.