

Roaa I. Mubarak

Personal Details

Name: Roaa Ibrahim Mohamed Ibrahim Mubarak

Date of Birth: 13 May 1979

Address: Department of Electronics, Communications, and Computer Engineering,
Faculty of Engineering, Helwan University, Helwan, Egypt

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Current position: - *Assistant Professor* at Department of Electronics, Communications, and Computer Engineering, Faculty of Engineering, Helwan University.

Higher Education

Sept. 2004 – March. 2011

Ph.D Helwan University, Department of Electronics, Communications and Computer Engineering.

Supervisor: Professor Mohamed Eladawy and Dr. Hesham Keshk.

Research into the area of bioinformatics and the intelligent techniques for the prediction of protein structures.

Sept. 2001 – Sept. 2004

MSc Helwan University, Department of Electronics, Communications and Computer Engineering.

Supervisors: Professor Hatem ElBolok, Professor Mohamed Eladawy and Dr. Mohamed AbuElwafa.

Research into the biometrics and hand geometry system.

Sept. 1996- May 2001

BSc Electronics, Communications and Computer Engineering, Electronics section.

Very Good (Second with Honor degree)

Final Year Project (Excellent): Tele-robotic arm.

Work Experience

2012- till now

Department of Electronics, Communications, and Computers, Faculty of Engineering, Helwan University – *Assistant Professor*

Teaching the following courses:

- Electronics Engineering
- Electronics circuits

- Biomedical Electronics
 - Selected Topics in Electronics Engineering
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- Supervising final year project groups.
 - Supervising Electronics Diploma project.

2001–2011

Department of Communications and Electronics Engineering, Faculty of Engineering, Helwan University, *Demonstrator – Assistant Lecturer*

Demonstrated several subject topics that included: Computer Aided Design (CAD), Electronics, Microprocessor, Digital Electronics and logic, Biomedical Electronics, Artificial Intelligent (AI).

Computing and Other Skills

Computing

- Extensively the following programming languages are used: Assembly Language, C, Prolog, ORCAD, Pspice, VHDL and Matlab.
- Fully competent administrator/user of Windows and all popular word processing and spreadsheet packages.

Languages

Fluent in Arabic (native) and English.

Selected Publications

H.M. El-Bolok, M.I. Eladawy, M.E. AbouElwafa and R.I. Mubarak, “ Person Identification Through Hand Geometry Measurements,” *Journal of Engineering Sciences, Assiut Univesity*, Vol. 32, No.4, pp.1661-1672, September 2004.

R.I. Mubarak, H.A. Keshk and M.I. Eladawy, “ Different species classifier based on hemoglobin sequences, ” *The 4th kuala Lumpur International Conference on Biomedical Engineering, Springer Book Series IFMBE Proceedings*, Vol. 21, pp. 279-281, 2008.

R.I. Mubarak, H.A. Keshk and M.I. Eladawy, “Prediction of hemoglobin structure from DNA sequence through neural network and hidden markov model,” *The 7th WSEAS Int.Conf. on Computational Intelligence, Man-machine Systems and Cybernetics (CIMMACS '08)*, Cairo, Egypt, pp.65-76, 2008.

R.I. Mubark, H.A. Keshk and M.I. Eladawy, "Different species classifier and hemoglobin structure predictor based on DNA sequences," *International Journal of Biology and Biomedical Engineering*, Issue 2, Vol. 2, pp.49-58, 2009.

R.I. Mubarak, H.A. Keshk and M.I. Eladawy. "Different Species and Proteins Classifiers and Protein's Structure Predictors Systems". *International Journal of Biology and Biomedical Engineering*: Issue 4, Vol. 2, pp 119-128, 2009.