PERSONAL INFORMATION	**Fatma Elsayed Ibrahim Ali Elhoseen**

Benha (Egypt)

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💬 Skype Fatma ElSayed

Sex Female | Date of birth 10/01/1987 | Nationality Egyptian

POSITION	PhD Position

WORK EXPERIENCE

From Aug 2015 till now
Assistant Lecture at Faculty of Computers and Artificial Intelligence, Benha University, Cairo, Egypt.

Mar 2009– Aug 2015
Demonstrator at Faculty of Computers and Artificial Intelligence , Benha University, Cairo, Egypt.

EDUCATION AND TRAINING

November 2019
VR Diploma
The American Center Cairo

April 2018
Registration for PhD of Computer Science
Thesis title **"Virtual Reality for Pain Management"**, Computer Science Department, Faculty of Computers and Artificial Intelligence, Cairo (Egypt).

May 2016
Pre-PhD of Computer Science
Computer Science Department, Faculty of Computers and Artificial Intelligence , Cairo (Egypt)

December 2015
PhD Qualification Exam
Computer Science Department, Faculty of Computers and Artificial Intelligence , Cairo (Egypt)

Sep 2012–Jun 2015
M.Sc. in Computer Science
Computer Science Department, Faculty of Computers and Artificial Intelligence , Cairo (Egypt)

Oct 2010– Jun 2011
Pre-Master of Computer Science
Computer Science Department, Faculty of Computers and Information, Menofia University, Cairo (Egypt)

Oct 2008–Jun 2009
Pre-Master of Computer Science
Mathematics Department, Faculty of Science, Benha University, Cairo (Egypt)

Sep 2004–Jun 2008
B.Sc. in Computer Science with general grade "very good with honors 83.7 %
Mathematics Department, Faculty of Science, Benha University, Cairo (Egypt)

Sep 2001–Jul 2004
High School Degree
El Sadat School, Cairo (Egypt)

PERSONAL SKILLS

Mother tongue(s)   Arabic

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B1	B1	B1
IELTS with score 6.5				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills
- Learn a new task and/or work in a different area with different co- workers.
- Positive, helpful and hard worker.
- Do new things and carry out new responsibilities easily by watching other or by following instructions.
- Make sure that things are done accurately, correctly and exactly.
- Work effectively individually or in a team to achieve goals.

Job-related skills

Programming Languages
C++, Java, Prolog
Familiar with
HTML, CSS, JQuery, MATLAB
Programming IDE
Microsoft Visual Studio, NetBeans, Visual Prolog 7.8, Unity
Operating Systems
Microsoft Windows up to Windows 10 and familiar with Linux(Ubuntu)

ADDITIONAL INFORMATION

Master Thesis

Thesis Title

Enhancement of Data Hiding Techniques Based on DNA Computing

Abstract

Deoxyribo Nucleic Acid (DNA) computing is a new method of simulating the bimolecular structure of DNA. The characteristics of DNA turned the researchers to utilize DNA in many fields especially in security. The thesis includes two proposals; the first one is a DNA cryptographic algorithm. Here DNA computing was used to enhance the security and performance of a conventional cryptographic algorithm. An evaluation for this algorithm is performed according to randomness testing by using the National Institute of Standards and Technology (NIST) test. The second proposal is a data hiding algorithm based on DNA sequences. This proposed algorithm has a low modification rate In addition, the length of the DNA reference sequence remains unchanged. Experimental results show a better performance of the proposed algorithm with respect to several parameters such as capacity(C), payload and bit per nucleotide (bpn).

Publications
- Fatma E. Ibrahim, M. I. Moussa and H. M. Abdalkader, "A Symmetric Encryption Algorithm based on DNA Computing", International Journal of Computer Applications, vol. 97, no. 16, pp. 41-45, July 2014.
- Fatma E. Ibrahim, M. I. Moussa, H. M. Abdalkader, "Enhancing the Security of Data Hiding Using Double DNA Sequences", presented at Industry Academia Collaboration Conference (IAC), 6-8 April, Cairo, Egypt, 2015.

Major Courses	• Data Structures and Algorithms
	• Advanced Computer Languages(OOP)
	• Artificial Intelligence and Neural Networks
	• Operating Systems
	• Machine Learning
	• Bioinformatics
	• Natural Language Processing
	• Automata and Compiler Theory

Research Interests	• Virtual Reality and Augmented Reality
	• Information Hiding

Dear Sir(s)

Thank you for giving my C.V. a part of your time.