

Fatty Mostafa Ahmed Salem

Contact Information

Dept. of Electronics, Communications & Computers
Faculty of Engineering
Helwan University
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Education

M.Sc. student. Faculty of Engineering, Helwan University, Cairo, Egypt, 2010.
Thesis: Efficient and Secure Message Transmission in High Mobility Ad-Hoc Networks.
Supervisors: Prof. I. I. Ibrahim and Dr. Maged H. Ibrahim.

B.Sc. Electronics, Communications Engineering, Faculty of Engineering, Helwan University, Cairo, Egypt, 2007.
Grade: very good (with the honor of degree).

Research Interests

Cryptography and network security and working on implementation of secure cryptographic algorithms. Other things that interest me are number theory and the investigation of mathematics for designing secure cryptosystems and cryptographic protocols. I'm also interested in anything related to digital human rights and learning programming languages.

Training

In Egypt:

- (1) Telecom Egyptian
- (2) Egyptian Radio & TV Union

Out Egypt:

- (3) Tishreen University
Lattakia_Syria

In the following fields:

- GSM (Global System Of mobile)
- Antenna & Wave Propagation
- Microwave Techniques
- Radar Application
- Digital & Microprocessor Electronics

Academic Experience

Demonstrator

Faculty of Engineering
Helwan University, Cairo, Egypt
2007 to present

Assisted in teaching Computer Aided Design, Data Structure, Electronic Systems & Digital Electronics, Principle of Microprocessor, Logic Design, Measurements, and Digital Signal Processing.

Skills

Some of which are:

- **Languages:** Excellent English, Weak French.
- **Computer Skills:** C/C++, Matlab, and Maple.
- International Computer Driving License (ICDL).
- Strong technical writing and grammar skills.

**Other
Activities**

Implementation in software some security and cryptographic protocols (DES, AES, RSA, DSS, Hash functions, secret sharing, secure multiparty computations, and Robust Threshold DSS Signature).

Publications

Fatty M. Salem, Maged H. Ibrahim, I. I. Ibrahim, "Non-Interactive Authentication Scheme Providing Privacy among Drivers in Vehicle-to-Vehicle Networks". *In the Proceeding of the IEEE six International Conference on Networking and Services (ICNS)*, Cancun, Mexico, pp. 156-161, 2010.

Fatty M. Salem, Maged H. Ibrahim, I. I. Ibrahim, "Non-Interactive Secure and Privacy Preserving Protocol for Inter-Vehicle Communication Networks". *In the Proceeding of the IEEE seventh Information Technology: New Generation (ITNG)*, Las Vegas, Nevada, USA, pp. 108-113, 2010.

**Personal
Information**

- **Date of Birth:** 06/08/1985
- **Nationality:** Egyptian.
- **Marital Status:** Single.
- **Affiliation:** Demonstrator, Department of Electronics, Communications and Computers, Faculty of Engineering, Helwan University.