

UFE
Faculty of Business Administration and Information Systems
Individual activity sheet

Last Name: Sayed

First name: Amira

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Faculty: Faculty of Business Administration and Information Systems

Membership institution: French University of Egypt

Professor (full or associate) HDR

Full time researcher

Particular position: Assistant Teacher.

1) Education:

Faculty of Computers & Information - Cairo University

August 2013

- Ph.D. of Information Technology.
- Thesis Title: Multi-Agent Artificial Immune System for Network Intrusion Detection.

Faculty of Computers & Information - Cairo University

January 2008

- M. Sc. Of Information Technology.
- Thesis Title: Network Security Using Intrusion Detection Systems.

ICDL 4 - International Computer Driving License ver.4

2008

ITI - Information Technology Institute.

September 2000 - June 2001

- Software Development skills diploma - Java Department.

Sun Microsystems.

April 2001

- Sun Java 2 Programming certificate.

Faculty of Computers & Information - Cairo University

September 1996 - June 2000

- B. Sc. Of Computers & Information - IT Department.
- General Grade: Good.

2) Professional Activities:

Web Developer - Modern Computing Services (MCS)

October 2002 - December 2002

- Taking part in the development the company's web projects.

3) Teaching activities:

Assistant Professor - Université Française d'Égypte (UFE)

September 2013 - Current

- Teaching different subjects in Department of Information Systems.
- Supervising Students software projects.

Assistant Teacher - Université Française d'Égypte (UFE)

September 2008 - August 2013

- Teaching different subjects in Department of Information Systems.
- Co-Supervising Students software projects.

Part-time Assistant - Université Française d'Égypte (UFE)

September 2005- June 2008

- Responsible for Instructing the Java courses in Faculty of Management and Information Systems.

Trainer, System Developer - Information Technology Incorporation (ITInc)

December 2004- August 2008

- A full-time instructor and a system developer.
- Teaching OOP, Java technologies courses.
- Supervising and team-leading Java projects of the company.
- Supervising students graduation projects implemented in Java.

Part-Time Java Instructor - EMAK International Academy.

July 2004- September 2004

- Instructing Java programming and Java technologies courses in different colleges and universities under Oracle JDeveloper environment.
- Institutions where the course was given:
 - Université Française d'Égypte (Staff).
 - FCI - Monofeya University (Staff).
 - FCI -Ain Shams University (Staff and students).
 - FCI - Asuit University (Students).
 - Faculty of engineering - Cairo University (Students).

Part-Time Java Instructor - ITInc.

2003 - 2004

- Instructing Java courses and Java technologies for different departments.
- Supervising the students' graduation projects.

Part-time Java Instructor - Information Technology Institute (ITI)

February 2002 - April 2002

- A full-time Java instructor and lab assistant.

Part-time Java Instructor - Digital Generation eXperts Center (DGX)

January 2002

- A part-time Java instructor and lab assistant.

4) Research activities:

- A member of the Scientific Research Group in Egypt (SRGE) in Faculty of Computers and Information, Cairo University. The research group activities started 2 years ago, and there are many research directions inside the group. The group members have published many papers and researches, and participated in book chapters all around the world. My research direction is Information and Network Security, and the group web site is <http://www.egyptscience.net/>

Key words: Computational Intelligence, Machine Learning, Network Security.

5) Strong research skills and highlight results:

- Network Intrusion Detection Systems.
- Artificial Immune Systems.
- Machine Learning.
- Artificial Intelligence.

6) Scientific production (last five years only):

List of your **5 major publications** (authors, title, references) since 2011/01/01:

"Multilayer Machine Learning-Based Intrusion Detection System."

Amira Sayed A. Aziz and Aboul Ella Hassanien. *Bio-inspiring Cyber Security and Cloud Services: Trends and Innovations*. Springer Berlin Heidelberg, 2014. 225-247.

"Multi-Agent Artificial Immune System For Network Intrusion Detection And Classification."

Amira Sayed A. Aziz, Sanaa El-Ola Hanafi, and Aboul Ella Hassanien. *International Joint Conference SOCO'14-CISIS'14-ICEUTE'14*. Springer International Publishing, 2014.

"Genetic Algorithm With Different Feature Selection Techniques For Anomaly Detectors Generation."

Amira Sayed A. Aziz, Ahmad Taher Azar, Mostafa A. Salama, Aboul Ella Hassanien, and Sanaa El-Ola Hanafi. In *Computer Science and Information Systems (FedCSIS)*, 2013 Federated Conference on, pp. 769-774. IEEE, 2013.

"Detectors Generation Using Genetic Algorithm For A Negative Selection Inspired Anomaly Network Intrusion Detection System"

Amira Sayed A Aziz, Mostafa Salama, Sanaa EL-Ola Hanafi, 2012, *Computer Science and Information Systems (FedCSIS)*, 2012 Federated Conference on, 597-602, IEEE.

"Artificial Immune System Inspired Intrusion Detection System Using Genetic Algorithm"

Amira Sayed A Aziz, Mostafa A Salama, Aboul ella Hassanien, Sanaa El-Ola Hanafi, 2012, *Special Issue: Advances in Network Systems* Guest Editors: Andrzej Chojnacki, Vol. 36, 347-357.

Google Scholar Profile - <https://scholar.google.com/eg/citations?user=hVusTFIAAAAJ&hl=en>