

# Eman Ahmed Sayed Ahmed

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## Objective

Obtaining a dual PhD degree from Egypt and France and enhancing my research skills in my fields-of-interest of machine learning, modeling and simulation, and big data.

## Education

- B.Sc. Information Technology, July 2006.
- Overall grade: Excellent with honors - First.
- Graduation project grade: Excellent.  
Faculty of Computers and Information, Cairo University.
- M.Sc. in Information Technology, December 2012.  
Faculty of Computers and Information, Cairo University.
- Pre-PhD Qualification Exams and Pre-PhD Courses (2013-2014).

## Work Experience

### PhD student

Information Technology department, Faculty of Computers and Information-Cairo University.

Information Research Center (CRI) - French University in Egypt (UFE).

Laboratoire d'Informatique, Signaux et Systèmes de Sophia-Antipolis (I3S)- Nice Sophia Antipolis University.

### Lecturer Assistant

Information Technology Department, Faculty of Computers and Information -Cairo University (2012-till now).

### Teaching Assistant

Information Technology Department, Faculty of Computers and Information - Cairo University (2007-2012).

## Master Thesis

Classifier Ensembles Techniques for bio-data

### Brief

In this work, it is proposed to apply an ensemble of SVMs with SVM fusion, to combine the results of the base SVM classifiers, coupled with feature-subset selection methods to alleviate the curse of dimensionality associated with gene expression-based classification of DNA microarray datasets. The proposed ensemble is tested on benchmark datasets and compared with other three ensembles in literature.

### List of Publications

E. Ahmed, N. El Gayar, A. Atiya and I. El Azab, "*Fuzzy Gaussian Process Classification Model*", in Mohamed S. Kamel, Aurélio C. Campilho (Eds.): Image Analysis and Recognition, 6th International Conference, ICIAR 2009, Halifax, Canada, July 6-8, 2009. Proceedings. Lecture Notes in Computer Science 5627 Springer 2009, ISBN 978-3-642-02610-2, pp. 369-376, 2009.

E. Ahmed, N. El Gayar and Iman El Azab, "*Support Vector Machine Ensembles Using Features Distribution among subsets for Enhancing Microarray Data Classification*", In Proceedings of 10th International Conference of Intelligent Systems Design and Applications (ISDA 2010), ISBN 978-1-4244-813487, pp 1242-1246, 2010.

Neamat El Gayar, Eman Ahmed and Iman El Azab (2011). "*Novel Machine Learning Techniques for Micro-Array Data Classification*", In Book Bioinformatics - Trends and Methodologies, Dr. Mahmood A. Mahdavi (Ed.), ISBN: 978-953-307-282-1, InTech, DOI: 10.5772/22132. Available from: <http://www.intechopen.com/books/bioinformatics-trends-and-methodologies/novel-machine-learning-techniques-for-micro-array-data-classification>

E. Ahmed, N. El Gayar and Iman El Azab, "*Support Vector Machine Ensembles Using Feature-Subset Selection for Enhancing Microarray Data Classification*", International Journal of Applied Mathematics and Statistics (IJAMAS 2012), Vol. 28, Issue No. 4, ISSN 0973-1377, 2012.

### Teaching Experience

- Machine learning.
- Pattern recognition and classification.
- Optimization Techniques.
- Image Processing.
- Multimedia and compression techniques.
- Computer Architecture and Organization.

### **Avicenna Knowledge Center (AKC) E-learning courses**

- Building “Signals and Systems” on-line course.

### **CultNat**

- Developing a desktop application for flow control and resource management with E-Signature support (J2SE).
- Developing a web application for the automation of the flow of work having E-Signature support (C#, ASP.Net).

### **Previous projects**

- **Interactive 3D:**

This is the graduation project, it concerns producing interactive 3D applet and application that represent aspects of the real life by capturing a group of images then applying a suitable image processing to them and mapping the result to generate a 3D scene. The user is able to navigate through the scene to see it from all directions.  
**(Using Java 3D 1.3.2, jdk 1.5 and matlab 7.0)**

- **OCR program:**

Character Recognition system.  
**(Using matlab 7.0).**

- **Hotel System:**

It concerns the reservation and the tour systems in a hotel.  
**(Using eclipse 3.0 and SQL Server 2000).**

### **Training**

In Mentor Graphics Company, it includes:

- Learning Perl programming language.
- Reprogramming a Unix Shell script using Perl.
- Conducting a Perl course.
- Developing a Java program.

### **Technical Skills:**

- **Programming Languages:**
  - C++
  - Java (J2SE)
  - SQL /MySQL
  - Matlab

- **Web Technologies:**
  - Html
  - PHP
- **Tools and IDEs:**
  - Visual Studio 6.0
  - Eclipse – Netbeans
  - SQL Server 2000
  - Matlab

## **Conceptual Skills**

- Good understanding of Networks concepts.
- Deep understanding of the Object Oriented concepts.
- Good understanding of Database designing concepts.
- Good understanding of Software Engineering concepts.

## **Hobbies**

- Playing Tennis.
- Swimming.
- Playing piano.
- Traveling.

## **Soft Skills**

- Good communication and presentation skills.
- Ability to work in a team.
- Ability to work under stress.

## **Personal Information**

- Date of birth: 18/2/1985.
- Gender: Female.
- Marital Status: Married.
- Languages: Arabic – English - French.