

## Ahmed Fares

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### CONTACT INFORMATION

Computer Science and Engineering  
Department of Electrical Engineering  
Faculty of Engineering at Shoubra  
Benha University  
108 Shoubra St., Dawaran Shoubra  
+201014731212  
Cairo, Egypt - Postal Code:11689  
ahmed.fares@feng.bu.edu.eg



### RESEARCH INTERESTS

Advanced Machine Learning and its application on real life: Multi-agent systems, Advanced Artificial Intelligence, bioinformatics, Smart City, Artificial Neural Networks and Fuzzy Logic, Theoretical Computer Science, .

### EDUCATION

#### **Egypt-Japan University for Science and Technology (E-JUST), Egypt**

Ph.D., Computer Science and Engineering, May 2015

School of Electronics, Communications, and Computer Engineering

- Thesis Title: *OPTIMAL COORDINATION OF FREEWAY TRAFFIC CONTROL MEASURES.*
- Advisors: Wakid Gomaa, Ph.D and Ogawa, Ph.D

#### **Benha University - Faculty of Engineering at Shoubra, Egypt**

M.Sc., Computer Systems Engineering, Dec. 2010

- Topic: *AN INTELLIGENT INTRUSION DETECTION TECHNIQUE BASED ON MACHINE LEARNING.*
- Advisor: Mohamed I. Sharawy, Ph.D and Hala H. Zayed, Ph.D

B.Sc., Computer Systems Engineering, May 2005

- Cumulative Grade: Excellent (with honorary degree, rank the first).
- Graduation Project Grade: Excellent
- Graduation Project Title: *E COMMERCE*

### RESEARCH EXPERIENCE

#### **Assistant Professor**

Computer Science and Engineering,  
Faculty of Engineering at Shoubra  
Benha University

May 2015 to present

#### **Visiting scholar**

Virginia Tech transportation institute,  
Virginia Tech  
Blacksburg- Virginia- USA  
Supervisors: Prof. Hesham Rakha, Ph.D

Sep. 2014 to Jan. 2015

#### **Research Assistant**

National Institute of Informatics,  
Tokyo- Japan  
INTERNSHIP

Aug. 2012 to Jan. 2013

Supervisors: H.Prendinger, Ph.D .

#### **Ph.D. Student**

Computer Science and Engineering,  
School of Electronics, Communications, and Computer Engineering  
Egypt Japan University of science and Technology (EJUST)  
Supervisors: Walid Gomaa, Ph.D and Ogawa, Ph.D.

Mar. 2012 to May. 2015

**Research Assistant and Teaching Assistance**

Dec. 2005 to Mar. 2012

Computer Science and Engineering,  
 Faculty of Engineering at Shoubra  
 Benha University

Supervisors: Hala Helmy, Ph.D and Mohamed Sharawy, Ph.D.

RECENT  
 REFEREED  
 JOURNAL  
 PUBLICATIONS

1. H.Prendinger,K.Gajananan,A.BayoumyZaki,A.Fares,R.Molenaar,D.Urbano, H. van Lint, and W. Gomaa, Tokyo virtual living lab: Designing smart cities based on the 3d internet, Internet Computing, IEEE, vol. 17, pp. 3038, Nov 2013.
2. Fares, Ahmed H., Mohamed I. Sharawy, and Hala H. Zayed. "Intrusion Detection: Supervised Machine Learning." Journal of Computing Science and Engineering 5.4 (2011): 305-313.

RECENT  
 REFEREED  
 CONFERENCE  
 PUBLICATIONS

1. Fares and W. Gomaa, Multi-agent reinforcement learning control for ramp metering, in Progress in Systems Engineering (H. Selvaraj, D. Zydek, and G. Chmaj, eds.), vol. 330 of Advances in Intelligent Systems and Computing, pp. 167173, Springer International Publishing, 2015.
2. Fares and W. Gomaa, Freeway ramp-metering control based on reinforcement learning, in Control Automation (ICCA), 11th IEEE International Conference on, pp. 12261231, June 2014.

AWARDS

- Scholarship from the Egyptian Ministry of Higher Education and Scientific Research
- a Ph.D. program on Computer Science and Engineering 2012–2015
  - at E-JUST University (including 6-months in a Japanese and 4 months in U.S.A. Postdoctoral
  - Research Institute for Future Media Computing, Shenzhen University 2017

LANGUAGES

English (IELTS score 7.)  
 Arabic (Mother Tongue).

TEACHING  
 EXPERIENCE

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|---|------------------------|
| Postgraduate-Assistant Professor<br>Cryptography and Network Security<br>Advanced Computer Networks<br>Advanced Researches<br>Information Security<br>Machine Learning Algorithms   | Summer 2015 to present |
| Undergraduate-Assistant Professor<br>Artificial Intelligence<br>Computer Networks<br>Information Security<br>Machine Learning<br>Embedded Systems lab<br>Compiler Design<br>Microprocessor<br>Operating Systems<br>Introduction to Information Technology | Summer 2015 to present |

SERVICE

- Judging Committee of Egyptian Engineering Day Sep. 2016
- The Egyptian Engineering Day is an annual summit that facilitates the opportunity for the best engineers to present and fully explain their projects to the elite members of engineering field from all over Egypt.

## REFERENCES

Hala Helmy

Dean of faculty of Computers and Informatics  
Division of Computer Science  
Benha University

E-mail: hala.zayed@fci.bu.edu.eg

Walid Gomaa

Professor

Division of Computer Science and Engineering  
Egypt-Japan University for Science and Technology (E-JUST)

E-mail: walid.gomaa@gmail.com

Ahmed Fares

Official edu. web page.



## GENERAL SKILLS

Effective Research and Development Capabilities

Efficient Algorithms Design and Implementation

Code Optimization for Resources and Performance

High Level Language Programming since 2001

Team Player with Leadership, Conflict Management, and Problem Solving Capabilities

HARDWARE AND SOFTWARE SKILLS Computer Programming:

• C, C++, Java, JavaScript, Pascal, PHP, Lisp, UNIX shell scripting, GNU make, AppleScript, SQL, MySQL, MATLAB, Mathematica, and others