

Academic Curriculum Vitae

Eman Ibrahim Shebl Raslan

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Education

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| [2010 - 2016] | M.Sc. Information Technology, Cairo University, Egypt |
| [2008- 2009] | Pre-Master Studies in Information Technology Department, |
| [2004 - 2008] | B.Sc. with Distinction (GPA: - 3.67 – 4 th in class of 150) Major Department: - Information Technology, Minor Department: - Computer Science, Cairo University, Egypt |

Professional Positions

- [2009 - Present] Teaching Assistant, Information Technology, Cairo University, Egypt
- [2016] Certified Instructor in the CISCO Networking Academy Program

Research Interest

FiWi Networks, Optical Networks, LTE, Network Coding, Network Simulation, Storage Area Networks, Cloud Infrastructure, WDM networks, Optimization.

Publications

1. Eman I. Raslan, Haitham S.Hamza, Reda A El-Khoribi, "Dynamic Bandwidth Allocation in Fiber-Wireless (FiWi) Networks, " World Academy of Science, Engineering and Technology, International Journal of Computer, Electrical, Automation, Control and Information Engineering, Vol:9, No:12, pp.2374-2378, 2015.

Dissertation

- Eman I.Raslan , “Dynamic Bandwidth Allocation Scheme in Optical Fiber-Wireless Networks”, *M.Sc Thesis*, Information Technology Department, Cairo University, Egypt, September 2016.

Supervisors: Prof. Reda Abd-ElWahab El-Khoribi and Assoc.Prof. Haitham Safwat
Kamal Hamza

Description: In this thesis, a newly developed model of Orthogonal Frequency Division Multiple Access Passive Optical Network (OFDMA-PON) is proposed using OPNET Modeler. Three extended versions of the know Weighted Dynamic Subcarrier Allocation (WDSA) algorithm have been suggested, namely, Priority Inheritance WDSA (PIWDSA), Static WDSA (SWDSA), and Adaptive WDSA (AWDSA). ADWSA algorithm has been adopted using two different methods of changing weights: Bang-Bang change method and Differential change method. The main objectives of these modifications is to ensure the fairness between different traffic classes and also Optical Network Units (ONUs).

- Eman I.Raslan, et al., “Implementing 3D application Painter Touch”, *Graduation Thesis*, Information Technology Department, Cairo University, Egypt, May 2008.

Supervisors: Prof. Ali Fahmi and Dr.Sherif Abdo

Description: Painter Touch is a 3D application helps the professional painters and kids to enjoy drawing with simple interaction with touch screen.

Academic Honors, Awards, Fellowships and Scholarships

[2016 - Present] CCNA Certificate for Instructors in the CISCO Networking Academy
Program

[2010 - 2016] Teaching Assistantship for M.Sc. in Information Technology, Cairo
University

[2004 - 2008] Full Scholarship for B.Sc. in Information Technology, Cairo University

Research Experience and Projects

[2010 - 2016] Research Assistant, Bandwidth allocation Scheme in Optical Fiber Wireless Networks, M.Sc *Research Project*, Information Technology Dept., Cairo University, Egypt.

Supervisors: Prof. Reda Abd El-Wahab El-Khoribi and Asso.Prof. Haitham Safwat Kamal Hamza

[Sep.–July 2009] Research Assistant, Network Coding for Optical Layer Multicast, *Pre-master Research Project*, IT Dept., Cairo University, Egypt.

Supervisors: Prof. Sanaa El-Ola and Dr. Haitham S.Hamza

Description: Using network coding to improve bandwidth efficiency for finding routes for optical layer multicast traffic.

[2007 - 2008] Research Assistant, Implementing 3D application” Painter Touch”, *Graduation Project*, Information Technology Department, Cairo University, Egypt.

Supervisors: Prof. Ali Fahmi and Dr.Sherif Abdo

Description: Painter Touch is a 3D application helps the professional painters and kids to enjoy drawing with simple interaction with touch screen.

Tools: JOGL(Java Open GL library)- Java -3Dmax- Flash and Photoshop

Rated “Excellent” (195/200)

Teaching Experience

[2009 - Present] Teaching Assistant, Information Technology, Cairo University, Egypt, (<http://www.fci-cu.edu.eg>)

Courses Taught

- IT221 (Fall 2013-2014) Data Communication
- IT241 (Spring 2013) Signals and Systems
- IT423 (Spring 2010-2014) Information and Computer Networks Security
- IT495 (Spring 2012, 2014) High Speed Networks
- IT321 (Fall 2008-2010, 2012-2014) Communication Technology

- IT311 (Fall 2009-2012) Computer Architecture
- IT222 (Spring 2009, 2011, 2016, Summer 2011) Computer Networks-1
- IT111 (Fall 2011) Electronics-1
- IT331 (Spring 2010) Computer Graphics-1
- IT322 Computer Networks-2 (Spring 2016)

Technical Skills

Programming Skills

- C++.
- Visual C++
- Java

Simulators and Emulators

- OPNET
- GloMoSim.

Markup Languages

- LaTeX
- HTML.
- XML

Graphics tools

- OpenGL(JOGL)
- 3Dmax
- Photoshop

Languages

- Arabic: Native Language.
- English: Very Good

References

References are furnished upon request.