



Maggie Ezzat Gaber Gendy

ABOUT

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INTEREST AND RESEARCH PLAN

I am a Egyptian FEMALE postgraduate master's student and researcher focusing on the Communications and Networking area. My master's work is concerned with increasing the Clearance Rate in auction-based incentive mechanism participatory Mobile CrowdSensing (MCS) applications. Novel algorithms have been implemented, tested and compared to former state-of-art to prove their superiority upon changing various factors in auction. Moreover, the idea of green communication in IoT has been considered in some of the work as to address energy efficient MCS auctions.

MEMBERSHIP

IEEE Membership
IEEE Communications Society Membership

EDUCATION

Bachelor of Engineering: Arab Academy for Science, Technology and Maritime Transport (AASTMT), Electronics and Communications Engineering department (2016)

- GPA:4.0
- First on class 5 years in a row.
- Delivered my class graduation speech.

High school Degree: (2011).

- Got 11th place in Math's section all over Egypt.
- Got 1st place in Math's section in Alexandria.

PUBLICATIONS

- *M.E.Gendy, A.Al-Kabbany, E.F. Badran, Maximizing Clearance Rate of Reputationaware Auctions in Mobile Crowdsensing, to be presented in IEEE CCNC, 2019.*
- *M.E.Gendy, A.Al-Kabbany, E.F. Badran, Maximizing Clearance Rate by Penalizing Redundant Task Assignment in Mobile Crowdsensing Auctions, submitted to PCom, 2019.*

COMPUTER SKILLS

- *Programming Languages:* Advanced: C++, Python, Intermediate: Java.
- *Scientific Software:* Advanced: Multisim, MATLAB, Android studio.
- *Software:* Latex, Microsoft office (MS power point, MS word, MS Excel).
- *Development Boards:* Arduino, Raspberry Pi.

EXPERIENCE

Graduate Teaching Assistant since fall 2016
Arab Academy for Science, Technology and Maritime Transport, Engineering Department (AASTMT).

- Teach many courses including advanced communications systems, Antenna Engineering, Electro-magnetics, Analogue and Digital Signals Processing...etc.
- Prepare and proctor examinations.
- Evaluate and grade examinations, assignments, and papers, and record grades.
- Lead discussion sections, tutorials, and laboratory sections.
- Supervise courses projects.
- Member of ISO coordination committee in the Electronics and Communications Engineering department.
- Performed various duties including students registration, schedule making and exam control.

Undergraduate Research intern Summer 2015
At a summer internship, Queen's University, Canada
with Prof. Dr. JOHN CARTLEDGE in the optical communication field.

- Performed computer aided statistical analysis of data from different technical papers.
- Worked in the lab on optical projects .

Practical and technical trainee

- *Telecom Egypt* Summer 2013

- Theoretical training in the field of communication and correspondence
- Practical training in fiber laboratories on the latest equipment used in the field of fiber (welding machines and measuring devices)
- Field visits to the work sites of the Egyptian Telecommunication Company.

- *Integrated Complex Simulation Center at AASTMT* Summer 2014

- Working with simulators for monitoring communication and radar equipments in a ship-leading training through changing climatic conditions, especially during winds and rain.
- Studying Global Maritime Distress and Safety System (GMDSS) simulator, applications, real equipment and reading electronic circuit diagram of GMDSS systems
- Inmarsat-C terminal: provides two-way data and messaging satellite marine communication
- Studying marine radars and simulations

- *Young Leaders Academy* since Summer 2018
Trained to be a coach for Robotics and Programming Projects, teaching young kids advanced programming concepts using the latest Programming software languages and Educational Robot Kits

- WEDO
- LEGO NXT
- LEGO EV3
- VEX

On-line certified courses and specializations: Check my Linkedin profile Maggie Gendy

EXTRA-CURRICULAR ACTIVITIES

- Scout Team leader for senior department.
- Class teacher at Sunday schools for 2 years (St. Mina church, Alexandria)
- Was a runner up on the age of 14 in a drawing competition held in *China* called *chemistry for life*.
- Once won best actress prize in *El keraza* youth festival for Egypt and Sudan.
- Captain of a volleyball team which came second twice in competitions that were held for Egyptians and Sudanese churches.
- I had a lot of art exhibition , and made it to the newspaper twice for drawing in order to solve our society problems in many contests (land mines, water shortage, street children, world peace.)
- Shared in many acting contests and plays.
- Participated at *MEU '11* at Bibliotheca Alexandrina.

LANGUAGES

- *English*: Fluent
- *French*: Intermediate
- *Arabic*: Native tongue

GRADUATION PROJECT

Designing and implementing a portable intensive care unit. Our motivation was the deficiency found in the number of ICs at the hospitals in Egypt during the field trips. Also, it served as an IoT device to help in communication between the patient, his family and the doctor in case of emergencies.

MASTER'S THESIS

My area of research focuses on increasing the Clearance Rate in auction-based incentive mechanism participatory Mobile CrowdSensing (*MCS*) applications. Novel algorithms have been implemented, tested and compared to former state-of-art to prove their superiority upon changing various factors in auction. Moreover, the idea of green communication in IoT has been considered in some of the work as to address energy efficient MCS auctions.