

Mohamed Mostafa Ibrahim Ibrahim

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PERSONAL INFORMATION

Date of birth: 17/10/1981

Current job: Assistant professor at Faculty of Engineering, Suez Canal University (SCU)

Marital Status: Married

Number of children: 3

Military Service Status: Exempted

EDUCATION

2017 Doctor of Philosophy degree; "**Performance Evaluation of SC-FDMA System**"
In Electronics and Communication Engineering, Ain Shams University (ASU),
Cairo, Egypt

2010 Master of Science degree; "**Performance evaluation of OFDMA system**" in
Electronics and Communication Engineering, Helwan University, Cairo, Egypt

2003 Bachelor of Science, Higher Institute of engineering, EL Shorouk Academy –
Cairo - Egypt

- Higher Institute of Engineering, Electronics and Communication Department
- B.Sc. Grade: Excellent with honor
- Project: Frequency Hopping for Secures Communication
- Project Grade: Excellent

Research interest:

- SC-FDMA, OFDMA and LTE systems
- Massive MIMO systems
- 5G communication technologies
- Green communications

List of Publications:-

Journal papers

- Mohamed Mostafa, Fatma Newagy, Ismail Hafez, "**Joint complex regularised zero-forcing equalization and CFO compensation for MIMO SC-FDMA systems**" IET Communications, vol.10, issue.16, pp.2245–2251, November 2016.

- **Mostafa, M., Newagy, F. & Hafez, I. “Complex Regularized Zero Forcing Precoding for Massive MIMO Systems”** Wireless Personal Communications - Springer Journal, 120, 633–647 (2021). (<https://doi.org/10.1007/s11277-021-08482-4>)
- Moh. Mostafa, Gamal Abdel fadeel, Ibrahim I.I “**A Two-Stage Frequency Offset Estimation and Compensation Scheme for OFDMA System ”** (doi:10.1994/s1001002536,UbiCC Journal,Volume4,Number5-December 2009)

Conference papers

- M. A. El-ghorab, M. R. El-meligy, **M. M. Ibrahim** and F. Newagy, "**Spectrum Allocation for Non-Orthogonal Multiple Access Heterogeneous Networks**" 2021 International Telecommunications Conference (ITC-Egypt), 2021, pp. 1-7, doi: 10.1109/ITC-Egypt52936.2021.9513939.
- Mohamed Mostafa, Mohamed A. Abdelhamed, Fatma Newagy, Ismail Hafez, "**MIMO SC-FDMA System Performance Investigation Under Realistic Channel Models**" accepted for publication in the 36th National radio science conference (NRSC2019), the conference was held in Port Said, Egypt, Arab Academy for Science, Technology and Maritime Transport, on April 16-18, 2019.
- Mohamed Mostafa, Fatma Newagy, Ismail Hafez, “**performance investigation of multi-user SC-FDMA MIMO systems**” accepted for publication in the IEEE 28th The International Conference on Microelectronics (IEEE ICM’16). ICM 2016, which was held in Cairo, Egypt, on December 17-20, 2016.
- Moh. Mostafa, Gamal Abdel fadeel, Ibrahim I.I "**A Two-Stage Frequency Offset Estimation Scheme for OFDMA System**" The third International Conference on New Technologies, Mobility and Security (NTMS- 2009)

EXPERIENCE

February2020 – Until Now:

Assistant Professor at Faculty of Engineering, Al Baha University, Al Baha at Kingdom Saudi Arabia (KSA), in Electrical Engineering Department.

Septmber2019 – February2020:

Lecturer (Part time) at Egyptian Chinese Collage for Applied Technology (ECCAT), Suez Canal University, Ismailia, in Electrical Engineering Department

Septmber2019 – February2020:

Lecturer (Part time) at Higher Technological Institute (HIT), 10th of Ramadan, El Sharqia, in Electrical Engineering Department

November2018 – until now:

Lecturer at Faculty of Engineering, Suez Canal University, Ismailia, in Electrical Engineering Department

September2017 – November2018:

Lecturer at Higher Institute of Engineering, EL Shorouk Academy in Electrical Engineering Department

Jaunary2018 – Jane2018:

Lecturer (Part time) at Faculty of Industrial Education, Suez University, in Electrical Engineering Department

May2016 – September2016:

Assistant lecturer (Part time) at Badr University in Cairo, BUC in Electrical Engineering Department.

September2010 – September2017:

Assistant lecturer at Higher Institute of Engineering, EL Shorouk Academy in Electrical Engineering Department.

Full time July 2003 – September2010

Instructor at Higher Institute of Engineering, EL Shorouk Academy in Electrical Engineering Department.

Main responsibilities and duties

- holding office hours, attending lectures, keeping class records, creating/selecting class materials presenting new material/lecturing, leading discussions/answering questions, conducting review sessions, holding tutorial sessions, preparing/collecting solutions to questions, grading/providing feedback on assignments and exams, setting up the lab, running tutorial or lab section(s), demonstrating procedures or setting up demonstrations.
- **Quality Assurance** to ensure national accreditation and recognition as a leading educational institution by creating and spread quality assurance and accreditation awareness among students and employees, establishing an internal quality management system for all faculties and administrative units through a self-assessment process and Ensure that academic standards of programs are defined and achieved in line with equivalent standards nationally and internationally and the quality of learning opportunities and research

- **Help students for** choosing and registering in their courses during the advising period, Selection of courses each semester, Approving of the student's academic load and add/drop procedures, Following up on the student's academic progress and following up cases of probation & suspended students.

Courses and certifications:

- Or-CAD Course.
- Proteus program.
- Electronic Work Bench.
- Design Printed Circuit Board (PCB).
- Matlab Course.
- DSP Course.
- Mobile Package GSM/GPRS, UMTS.
- GSM and CDMA mobile communication.
- VHDL Course.

Teaching Courses:

Course	curriculum Year	Subject
Circuits (1)	1 st	Principals of electric circuits (Dc & Ac) analysis
Circuits (2)	2 nd	Storage elements, passive Filters, Transformers
Measurements & lab (1)	1 st	Current, Voltage and frequency measurement devices
Measurements & Lab (2)	2 nd	Flip-Flops, Sensors
Measurements & Lab (3)	3 rd	Transducers
Electronic (1)	1 st	Diode, Transistor (BJT, FET)
Electronic (2)	2 nd	Op-amp, Power amplifiers, Oscillators, active Filters
Electronic (3)	2 nd	CMOS Transistor, IC Fabrication
Signal Processing	2 nd	Fourier Transform, Laplace Transform, Z-Transform
Electronic & Communication Lab (1)	3 rd	Analog modulation (AM-FM-PM), Communication Systems, (Exp. Lab)
Electronic & Communication	4 th	Digital modulation (ASK-FSK-PSK) , Channel Fading, BER,

Lab (2)		(Exp. Lab)
System and Networks	3 rd	Digital Filters, Impulse response
Digital Electronics	5 th	ADC, DAC, VHDL
Communications Theory 1&2	5 th	Analog Modulations, Digital Modulation
Digital Signal Processing (DSP)	5 th	FFT, IFFT, Digital filters
Digital Control 1&2	5 th	Z transform, Digital Control Systems
Communications and Electronics Dep. Graduation Projects	5 th	OFDMA & LTE Projects

SKILLS:

Programming Languages:

- Matlab
- Proteus
- C++
- Assembly
- VHDL
- Visual Basic

Technical skills

Installation, configuration and troubleshooting circuit design and electronics Lab, simulation and PCB design.

Language skills:

- Native language Arabic
- Very Good in written and spoken English

Career Objectives

I have been teaching and conducting research in academic environments in Egypt since 2003. The experience and students' feedback I got so far suggest that I should be continuing my research/teaching career.

I dedicate myself to becoming an effective university lecturer. I constantly work to enhance my teaching skills and make the learning experience enjoyable for my students.

I am particularly interested in interacting with engineering students in a mentoring role and be able to provide academic and life skills counseling to help them succeed in engineering.

Finally, I look forward to working at a university where my teaching is assessed positively and my research interests are encouraged and respected.

References

Ismail Mohamed Hafez, Professor

Vice Dean for Environmental Affairs and Community Service Ain Shams
University Faculty of Engineering, Cairo, Egypt

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Email: ismail_hafez@eng.asu.edu.eg

Salah Sayed I. Elagooz, Professor

Head of Electronics and Communication Engineering Department
El-Shorouk Academy, Cairo, Egypt

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Fatma Abdelkarem Newagy, Assoc.Professor

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