Sara Sherif Mourad Abdel Meged Sherif.

Assistant Lecturer, Engineering Mathematics, Faculty of Engineering, Cairo University.

Date of birth   20th June 1992
Place of birth   Oslo, Norway
Nationality   Egyptian
Address   Mohamed Kamal Omran St., Mohandessin, Giza, Egypt
E- mail   saracherif92@eng.cu.edu.eg

Publications

Sherif, Sara S., Doaa M. Shawky, and Hatem A. Fayed. "An Ensemble Model for Stance Detection in Social Media Texts." International Journal of Information Technology & Decision Making (2023).

Mourad, Sara S., Doaa M. Shawky, Hatem A. Fayed, and Ashraf H. Badawi, "Stance Detection in Tweets Using a Majority Vote Classifier." International Conference on Advanced ML Technologies and Applications. Springer, Cham, 2018.

Work Experience

Oct 2019- Present	Assistant Lecturer, Engineering Mathematics, Faculty of Engineering, Cairo University.
March 2017- Oct 2019	Teaching Assistant, Engineering Mathematics, Faculty of Engineering, Cairo University.
Oct 2015- Feb 2017	Teaching Assistant at Zewail City of Science and Technology.
Sep 2014 - June 2015	Teaching Assistant, Engineering Mathematics, Faculty of Engineering, Cairo University.

Education

2019- Present **PhD, Engineering Mathematics, Faculty of Engineering, Cairo University.**
GPA: 4/4
Courses: Linear and Integer Programming, Advanced Topics in Mathematics, Stochastic Processes, Neural Networks, Theory of Computation, and Advanced Theory of Computation.

2015- 2019 **MSc, Engineering Mathematics, Faculty of Engineering, Cairo University.**
GPA: 3.9/4
Thesis: An Ensemble Model for Stance Detection in Social Media Texts.
Advisors: Prof. Dr. Doaa M. Shawky and Dr. Hatem A. Fayed.
Courses: Numerical Linear Algebra, Design and Analysis of Algorithms, Advanced Numerical Analysis, Advanced Linear Algebra, Nonlinear and Dynamic Programming, Computer Control Systems, and Technical Writing.

2014 **Diploma, Engineering Mathematics, Faculty of Engineering, Cairo University.**
Courses: Linear Algebra, Abstract Algebra, Functional Analysis, Numerical Analysis, Introduction to Operations Research and Optimization, and Differential Geometry.

2009- 2014 **BSc**, **Faculty of Engineering, Cairo University.**
Electronics and Electrical Communications Engineering.
Cumulative grade 89.09% - Distinction with honors- Rank: 14th/320.

2008-2009 **High school Diploma.** Religieuses Franciscaines School (99.2%)

Teaching Experience

- Analytic Geometry
- Integral Calculus
- Linear Algebra
- Ordinary Differential Equations
- Laplace Transform
- Numerical Analysis
- Multi-Variable Calculus
- Probability and Statistics
- Complex Analysis
- Special Functions
- Partial Differential Equations
- Machine Learning
- Big Data Analytics

Standardized tests

GRE (Sept 2019) Verbal: 146 (31% below)
                 Quantitative: 158 (69% below)
                 Writing: 3.5 (42% below)

Formation

2012   Certificate from Casbec center for attending Microcontroller course.
2012   Certificate from AMIDEAST for attending English conversation course.
2011   Seminar at SYSTEL Training Center (Smart Village).
2011   Certificate from High Technology Center for attending "Microprocessor" course (36 hours).
2011   Certificate from High Technology Center for attending "Programming with Matlab" course (20 hours).
2010   ICDL (International Computer Driving License).
2007   DELF (Diploma in French Studies).

Languages

Arabic   Mother tongue.
French   Excellent (DELF obtained in 2007).
English   very good

Skills

Good knowledge of

- Microsoft Word, Power Point, Excel, Windows, Internet.
- The Basics of programming languages such as C++ and VHDL (VHSIC hardware description language) and Python.
- Matlab
- Simulation programs such as Proteus, Top spice, Multisim, Cadence, Altera Max Plus.
- Linux, GNU Radio, Asterisk PBX, and Twinkle Softphone.

Activities and Trainings

2013   Training at Telecom Egypt. (3 weeks)
2012   Analog Electronics Training in Faculty of Engineering by Intel. (2 weeks)
2012   Training at Arab Organization for Industrialization. (2 weeks)
2011   Summer training at Faculty of Engineering (Building a power Supply – Basic Linux O.S labs –
        Basic electronic course – soft skills).
2010   Summer Training at Faculty of Engineering (Digital to Analog Converter (DAC)).

Projects at Faculty of Engineering:

2011   ADC.
2012   Design of a general-purpose processor using VHDL targeting FPGA platform.
2013   Design of a tracking vehicle with obstacles detection.
2013   Socket Programming to achieve reliable UDP communication using Go Back N (GBN) error
            correction technique.
2013- 2014 Ethernet to wireless bridge using GSM RF channels. (Graduation project, my grade
is Excellent, under the supervision of Dr. Magdi Fikri)
This project aims to connect two open BTS nodes in the absence of an internet connection to serve a
greater objective which is building an OpenBTS-based mobile network designed for rural areas. The
local and the master BTS have to be connected through an RF connection. So, the VOIP traffic is
extracted from the open BTS, modulated through OFDM and carried on an RF signal using USRP to the
other side, where the reverse operation was done.
Tools used: GNU Radio, UHD, Asterisk PBX, Twinkle Softphone .