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Ahmed H. Eltanboly 

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Ahmed H. Eltanboly

Work Experience

2024 – Present

Director / University Center for Career Development (UCCD), Galala University

Establish a sustainable and an improved employability of Galala university graduates.

2023 – Present

Full Time Lecturer / Galala University, New Galala City

- Delivering various applied and pure mathematical courses for undergraduate students.
- Designing course curricula, Mentoring students, and Developing assessments

2020 – Present

Assistant Professor / Faculty of Engineering, Mansoura University

Teaching of both applied and pure mathematics and statistics courses for both undergraduate/graduate students.

2021 – 2023

Adjunct Lecturer / Galala University, New Galala City

Teaching of applied mathematics and statistics courses for undergraduate students.

2020 – 2021

Deputy Executive Director/ Biomedical Engineering Specific Program, Faculty of Engineering, Mansoura University

Perform all the duties with respect to education and students' affairs based on credit hours system for both undergraduate/graduate students.

2017 – 2019

Teaching Assistant/ University of Louisville, Kentucky, USA

Work as an assistant in teaching some engineering courses including (Biostatistics – Statistical Data Analysis - Medical Imaging Analysis – Advanced Engineering Statistics – Applied Mathematics for Engineering – Calculus Engineering Mechanics).

2015 – 2019

Research Scholar/ University of Louisville, Kentucky, USA

Contribute as a team member with Bio-Engineering department to develop a computer aided system for diagnosing some human diseases.

2010 – 2014

Assistant Lecturer / Faculty of Engineering, Mansoura University

Teaching Assistant at University of Mansoura, February 2003 -- October 2014, instructed the following courses:

- Applied Statistics & Probability for engineers.
- Mathematics for Business.
- Fundamental Calculus and Linear Algebra courses for Engineering.
- Advanced Engineering Mathematics courses for engineering.
- Engineering Mechanics courses.
- Essential programming skills for engineering using Matlab, SPSS, Mathematica, and R

Scientific Degrees

MARCH 2020

Ph.D. / School of Engineering, Mansoura University

Under Joint Supervision, University of Louisville, USA & Mansoura University, Egypt 2015-2019

OCTOBER 2010

M.Sc. of Applied Mathematics/ School of Engineering, Mansoura University

Under supervision at department of Mathematics and Engineering Physics.

JULY 2001

B.Sc. of Control Systems and Computer Engineering / School of Engineering, Mansoura University

Honors and Awards

- Best Ph.D. Dissertation at Mansoura University, 2022
- Third place in Research Louisville annual competition, 2018.
- Best Article & Head Cover of Medical Physics Journal (<https://rdcu.be/b1VsH>)
- Scholarship grant for PhD mission in USA, 2015-2017.
- Outstanding Teaching Assistant Award in Mathematics, Mansoura University, Egypt, 2010.

Skills

- Practitioner of statistical analysis using statistics tools such as SPSS and R.
- Fluent using Office pack, scientific editing (Latex), medical images viewers, Matlab and Mathematica
- Excellent command at English with very good in writing and speaking
- Computer Skills including all windows platforms and Linux.
- Good Practice of C++ and Python programming languages with machine learning applications.
- Ability to adopt ready-to-use codes in applications related to image processing

Qualifications and Academic Experiences

- ❖ More than 15 years in tutoring most of the mathematics courses described as common courses in universities in high standards of education
- ❖ High Experience in developing course curriculum as per accreditation and international standards
- ❖ Experience incorporating Educational Technology in curriculum and instructional strategies.
- ❖ Highly experienced in using most of the learning managements systems (LMS) platforms (Moodle, Canvas, Gourami ...etc.)

Scientific Activities

- ❖ Lecturer of Biostatistics course for higher studies in Biomedical Engineering (BME) specific program, Mansoura University.
- ❖ Participate in preparing the placement test for the new students joining the National Universities.
- ❖ Member of the organizing committee of the Egyptian universities (2020 – present).
- ❖ Member of the organizing committee for preparing the Bylaw for Artificial Intelligence Engineering (AIE) with credit hours system, Mansoura University (2019-2020).

Thesis Advising

- ❖ "Using Artificial Intelligence Techniques for Detecting Infertility-Causing Diseases", **Eng. Aya Haraz**, Master in Biomedical Engineering (2023).
- ❖ "Computational Modeling and Optimization of Electromagnetic Problems", **Dr. Neveen Gerges**, Ph.D in Engineering Mathematics (2023).

- ❖ "Swarm intelligence for solving some nonlinear Differential equations", **Eng. Ahmed Zaghal**, Master in in Engineering Mathematics (ingoing)
- ❖ " Early Diagnosis of Glaucoma using Machine Learning Techniques", **Eng. Shaimaa Akram**, Master in Biomedical Engineering (ingoing)

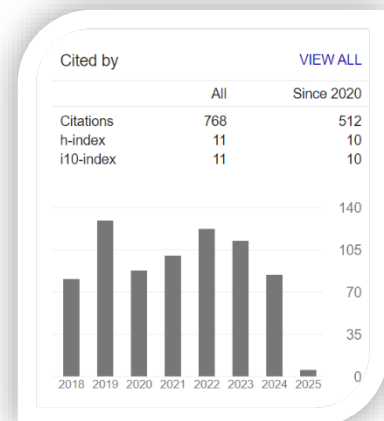
Research Projects

- ❖ Statistical approaches for medical images analysis with error analysis.
- ❖ "Level Set-based Techniques for image segmentation": this project aims at developing and incorporating various segmentation approaches inherited from the level set method for the sake of better segmentation results in medical images analysis.
- ❖ "Advanced OCT Calibration and Quantification System for the Objective Diagnosis and Better Management of Retinal Diseases": The project aims at developing a novel analytic software for the objective early detection and better management of retinal diseases, using Optical Coherence Tomography (OCT).

Patent

"A method for segmentation of a 3-D medical image uses an adaptive patient - specific atlas and a statistical model for 3-D Optical Coherence Tomography (OCT) data".

*United States (US), Pub. Date: Mar. 18, 2021; Pub. No.: US 2021/0082123 A1



Publications

The most recent list of publications and scientific contributions are listed below, in addition to the following portfolio links below. *(Last update: January'25)*

Eltanboly, Ahmed H.

Eltanboly, Ahmed H. ; El Tanboly, Ahmed ; ElTanboly, Ahmed ; ElTanboly, Ahmed H. ; Eltanboly, A. ; Eltanboly, Ahmed ; El Tanboly, A.

[Mansoura University](#), Mansoura, Egypt

Affiliation history

2016 - 2020 [University of Louisville](#), Louisville, United States

2016 - 2019 [Mansoura University](#), Mansoura, Egypt

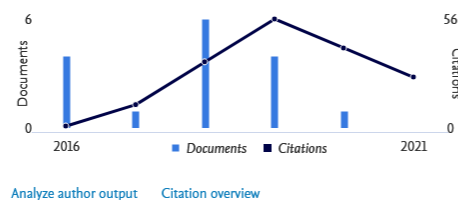
Metrics overview

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Document & citation trends



Most contributed Topics 2016–2020

[Optical Coherence Tomography; Macular Edema; Speckle Noise](#)
5 documents

[Optical Coherence Tomography Device; Angiography; Fremont](#)
3 documents

[Active Contour Model; Level Set Method; Image Segmentation](#)
2 documents

[View all Topics](#)