Curriculum Vitae (CV)

Full Name

Lamia Nabil Mahdy

Personal Information:

Academic Rank: Associate Professor

Department: Biomedical Engineering

Specialization: Biomedical Engineering

Position: Lecturer at biomedical Engineering in HTI

Google Scholar: 5   ---J9Xdm –Y4AAAA J&hl =en--------

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Biomedical Engineering	CAIRO UNIVERSITY	2015
M.Sc.	Biomedical Engineering	CAIRO UNIVERSITY	2008
B.Sc.	Biomedical Engineering	HELWAN UNIVERSITY	2004

Academic Experience:

Institution: Higher Technological Institutes.

Rank: Associate Professor in biomedical engineering department

Dates: 2021

Institution: Higher Technological Institutes.

Rank: Assistant Professor in biomedical engineering department

Dates: 9/7/2016

Institution: Higher Technological Institutes.

Rank: Research Assistant (PhD student) Professor in biomedical engineering department.

Dates: 2004

Institution: Higher Technological Institutes.

Rank: Teaching Assistant Professor in biomedical engineering department.

Dates: 16/4/2009

Research interests:

- Artificial Intelligence
- Image Processing
- Medical Health care technology.

Publications:

-1- **"**A System for Simulating the Orthodontic Treatment Plan", (Volume 02, No.2) - International Journal of Multidisciplinary Approach and Studies (ISSN NO: 2348 –537X) - April, 2015

2- **"**Decision Support System for Determination of Forces Applied in Orthodontic based on Fuzzy Logic**"**, AMALTA Conference, Springer, February 2018

3- "Integrated Multi-Sensor Monitoring Robot for Inpatient Rooms in Hospital Environment, AISI Conference, Springer, 2018"

4- "Automatic detection System for Degenerative Disk and simulation for artificial disc replacement surgery in the spine", ISA Transactions (Impact Factor =3.4), ELSEVIER, Science Direct, 12 July 2018

5- "Developed Intensive Care unit depend on IoT and Cloud" ", Third International Undergraduate Research Conference Military Technical College, Cairo, Egypt July 30 – August 2, 2018

6- "Smart ECG Holter Monitoring System Using Smartphone", 2018 IEEE International Conference on Internet of Things and Intelligence System (IOTAIS), November 2018

7- "Robust Simulation and Visualization of Satellite Orbit Tracking System", AISI Conference, Springer, 2018

8- "Design Artificial Hand based on Finite Element Method", Third International Undergraduate Research Conference Military Technical College, Cairo, Egypt July 30 – August 2, 2018

9- "Sign Language Translator using Microsoft XBOX One Kinect ™", Third International Undergraduate Research Conference Military Technical College, Cairo, Egypt July 30 – August 2, 2018

10- "Biomechanics of artificial intervertebral disc with different materials using finite element method", Soft Computing, Springer (I.F= 2.37), October 2018

11- "IoT-based intensive care secure framework for patient monitoring and tracking", International Journal of Grid and Utility Computing, INDERSCIENCE, January 2019

12-"Automatic counting of infected white blood cells using multi-Level thresholding", 2019 Ninth IEEE International Conference on Intelligent Computing and Information Systems, 8-12 December 2019

13- Book Chapter: "Design, Implementation, and Validation of Satellite Simulator and Data Packets Analysis", Book: Machine Learning and Data Mining in Aerospace Technology, pp.79-103, Jan 2020

14- "Automatic 3D Reconstruction Detection System for Knee Osteoarthritis Based on K-Means Algorithm". International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1087. Springer, Singapore, Feb 2020

15- "Automatic Segmentation System for Liver Tumors Based on the Multilevel Thresholding and Electromagnetism Optimization Algorithm". International Journal of Imaging Systems and Technology, Wiley Publisher, (accepted), under publishing, 2020.

Certifications or Professional Registrations:

- ➢ Attendance in "What Authors Need To Know About Errata, Corrigenda And Retraction", National Institute For Astronomical And Geophysics Research, Helwan, Egypt, 2017.

- ➢ Speaker in "Intelligent Systems And Data Mining: Applications And Trends", Faculty Of Computing And Information - Kafr El - Sheikh University, Egypt, 2017.

- ➢ Attendance in "The International Geo-Science And Remote Sensing Winter School", The German University Of Cairo, Egypt, 2017.

- ➢ Speaker in "Smart Hospitals: Towards Smart World In Nursing And Health Care", Faculty Of Nursing, Suez Canal University, 7th February 2018

- ➢ Participated In " THE 3RD INTERNATIONAL CONFERENCE ON ADVANCED MACHINE LEARNING AND TECHNOLOGIES", 22-24 FEBRUARY 2018

- ➢ Speaker in "4th International Scientific Nursing Conference Toward A Bright Future In Nursing And Health Care, April 2018

- ➢ Attendance In "The National Project Of Promoting Science And Information Technology In Environmental Protection And Supporting Energy Utilization To Achieve The Goals Of Sustainable Development", April 2018

- ➢ Attendance in "The 14th Scientific Conference Of The Arab Association For Educational Technology 10-12 July 2018 Entitled: The Competitive Advantage Of Educational Technology Research (Intelligent Learning Systems, July 2018

- ➢ Attendance in "Communication And Information Technology (Cit) Annual Conference Under The Auspices Of The Minister Of Communication And Information Technology: Dr\ Amr Talaat, Inter Continental, City Stars, Egypt, 4-6 March 2019 "

- Speaker In The Talk Entitled " Internet Of Medical Things" Organized By The Egyptian Scientific Research Group In The Activities Of The " One For All | The 2nd Beat" Conference, 7-9 March 2019, Biomedical Engineering Department, Faculty Of Engineering, Cairo University

- Attendance in Women-Up Conference Entitled "Boosting The Untapped Potential Of Entrepreneurship In Egypt Via Women Empowerment", Intercontinental Cairo Semiramis – Tiba Hall, Cairo, Egypt, 20 March 2019

- Attendance in "Global Forum For Higher Education And Scientific Research", 4-6 April 2019, Cairo, Egypt

- Participated in 2019 Ninth IEEE International Conference on Intelligent Computing and Information Systems, 8-12 December 2019

- Member in Scientific Research Group of Egypt since 2017 till now

<p style="text-align:center;"><strong style="color:red;">Teaching Experience:</p>

- **Academic Supervision.**

- Supervising on one MSC thesis at the Faculty of Engineering - Minia University Supervising on one MSC thesis at the Faculty of Engineering - Helwan University

<p style="text-align:center;"><strong style="color:red;">Courses taught</p>

- IMAGE PROCESSING (2D IMAGES AND 3D VISUALIZATION)
  • ROBOTICS (ARDUINO – IOT SENSORS (PULSE RATE SENSOR, RESPIRATORY
- SENSOR, ECG, EMG SENSORS, GSR SENSOR))
  • ARTIFICIAL INTELLIGENCE
  • MACHINE LEARNING
  • EXPERT SYSTEMS
  • PATTERN RECOGNITION
  • BIOMECHANICS
  • HOSPITAL DESIGN
  • ELECTRONICS

- • COMPUTER PROGRAMMING
- • BIOMEDICAL MEASURMENTS
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