

## CURRICULUM VITAE (updated June. 2022)

**Name:** Dr. Eng. Mamdouh MONIF  
**Date of Birth:** December 01, 1965  
**Place of Birth:** Syria, Hama  
**Marital state:** Married  
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### Academic Qualifications:

**Assistant professor:** Biomedical Engineering: Feb. 2017

**Biomedical Engineering Ph.D.:** March 1996 - March 2000, Technical University of Graz, Austria  
Biomedical Engineering  
Medical equipment/Medical Electronic  
/Medical Equipment Maintenance

**Diploma & Master Sc.:** Sept. 1994 - March 1996, Technical University of Graz, Austria  
Biomedical Engineering

**B. Sc.:** Sept. 1983 – Aug. 1988, Tishreen University, Syria  
Electrical Engineering – Electronics

### Administrative Tasks:

2020-to date: **Dean** of the Faculty of Biomedical Engineering - Al-Andalus University for Medical Sciences-Syria.

2019-2020: Vice Dean for Administrative Affairs of the Faculty of Biomedical Engineering - Al-Andalus University for Medical Sciences-Syria.

## **Employment History:**

1989: full time instructor, Faculty of Mechanical and Electrical Engineering, Tishreen University.

1989-1994: full time professor assistant, Faculty of Mechanical and Electrical Engineering, Damascus University.

1994-2000: Studying Master and Ph.D. Technical University of Graz, Austria”

2000: Tutorial teacher, Biomedical engineering Institute, Technical University of Graz, Austria”

2000-2006: Biomedical engineering department, Damascus University

**2006-2011:** full time contract with **King Saud University**

2011-2020: Department of biomedical engineering, Faculty of Mechanical and Electrical, Damascus University.

2013-2014/2019-2020: Audiology master program, Biomedical engineering department, Damascus University.

2000-2022: supervision of many graduation projects, Master and Doctor degree at Damascus and Al Andalus Universities.

2018-2019: Partial contract with Al Andalus University for Medical Science.

2019-2022: full time contract with Al Andalus University for Medical Science, **Dean** of the Faculty of Biomedical Engineering

## **Biomedical Engineering Experience:**

**2001:** Studying of Laboratories equipments for medical services administration of internal Ministry

**2002:** Studying and Designing (Technology and Architecture) of “medical equipment Needs for all departments of the **Police Hospital in Harasta, 230-bed hospital, Damascus, Internal Ministry.**

**2002-2006:** Technical consultant of the obstetric and women illnesses Hospital – 300 bed-hospital, Damascus University, Damascus

**2004:** Member of technical committee to studying the X-Rays technical Offers for 15 Hospitals (European Loan), Ministry of Health.

**2004:** Member of technical committee to studying the X-Rays and Echo technical Offers for 2 Hospitals (Spanish Loan), Ministry of Health.

**2004:** Member of technical committee to preparing the X-Rays and Echo technical condition book for 2 Hospitals (Italian Loan), Ministry of Health.

**2005:** Project of Designing and Studying of “medical equipment and Furniture needs and central medical gas system”, 60-bed hospital, Yabroud, Damascus, Ministry of Health.

**2006:** Project of Designing and Studying of “medical equipment and Furniture needs and central medical gas system”, 100-bed cardiac surgery hospital, Zamalka, Damascus, Private hospital.

**2006:** scrupulousness the Project of Designing and studying of “medical equipment and Furniture needs and central medical gas system”, 80-bed hospital, obstetric hospital, Al-Rakah, Ministry of Health

**2002-2018:** Supervision on the Execution of many projects in many hospitals: Medical gas system, X-Ray department, Central sterilization department, Operating rooms, Kitchen...etc, Damascus.

**2014 to date:** Head of the primary Handing Over committee for Tishreen University Hospital in Lattakia, 1000 Beds Hospital.

**2015-2019:** Biomedical Engineering Consultant (Consulting contract, Damascus University) with film trading company

**Professional Membership:**

- Syrian Engineering Association
- Scientific committee at Syrian Computer Society
- Syrian Teacher Association

## Research and Publications:

1. Scharffeter H., Monif M., Laszlo Z., Lambauer T., Hutten H., Hinghofer-Szalky H.: Effect of postural Changes on the Reliability of Volume Estimations from Bioimpedance Spectroscopy Data. *Kidny Int.*, 51: 1078-1087, 1997.
2. Monif M., Scharffeter H., Hutten H.: Nicht-invasive Bestimmung der Gefaesscompliance. *Biomedizinische Technik* 43, Ergaenzungsband 3, 61-64, 1998.
3. Monif M. Hutten H.: Monitoring of the Dynamic Compliance of Vessels. *Medical & Biological Engineering & Computing*. Vol. 37 (Supp. 2) Part 2, 1422-1424, 1999. European Medical & Biological Engineering Conference, EMBEC'99, Nov. 4-7, Vienna (AUSTRIA).
4. Hutten H. Monif M.: Non-invasive Monitoring of the Dynamic Compliance in the Carotid Artery. *World Congress on Medical Physics and Biomedical Engineering*. CHICAGO 2000.
5. Monif M., Hutten H.: Neues Verfahren zur nichtinvasiven und kontinuierlichen Bestimmung der dynamischen Compliance der A. Carotis. *Biomedizinische Technik*, Band 45 (10), 277-281, Okt. 2000.
6. Monif M., Hutten H.: Dreidimensionales Finite-Elemente-Modell zur Fehlerabschaetzung des pulsatilen Flusses in der A. Carotis nach dem Vier-Elektroden-Impedanzverfahren, *Biomedizinische Technik*, Band 45, Ergaenzungsband 1, 377-378, 2000.
7. Mamdouh Monif: Biomeasurment. *Arabic Encyclopedia*, 2006.
8. Monif M.: Finite element study on the predicted equivalent stresses in the artificial hip joint. *J. Biomedical Science and Engineering*, 5, 43-51, 2012
9. Mamdouh Monif: Medical Equipment maintenance. *Arabic Encyclopedia*, 2014.

10. Mamdouh Monif: Evaluating a Contactless and Continuous method to Measure the Temperature of Premature in the Incubator. Damascus University Journal, 2016.
11. Mamdouh Monif: Medical Electrography. Arabic Encyclopedia, 2016.
12. Mamdouh Monif, Emad Ebrahim Alkarad: Comparing the Performance of the Cochlear Single- and Multiple-channel Implant: Speech Intelligibility, Auditory Performance. Damascus University Journal, 2017.
13. Mamdouh Monif: Prototype model using fuzzy logic in MATLAB to study the thermal distribution and controlling it in tissues during hyperthermia cancer treatment. Damascus University Journal, 2018.
14. Mamdouh Monif, Kinan Mansour, Waad Ammar, and Maan Ammar: Automatic Detection and Extraction of Lungs Cancer Nodules Using Connected Components Labeling and Distance Measure Based Classification, Computer Science & Information Technology (CS & IT), pp. 41-53, 2021. CS & IT - CSCP 2021, "DOI: 10.5121/csit.2021.110705".
15. Alaa Rahal, Mamdouh Monif, Ayman Alsabuni; Numerical simulation of cryotherapy on a hepatocellular carcinoma. Damascus University Journal, 2022

### **Patents:**

1. **US Patent:** "SYSTEMS AND METHODS TO MEASURE FLUID IN A BODY SEGMENT"; Patent No.: **US 9895069 B2; Feb. 2018.**
2. **US Patent:** "SYSTEMS AND METHODS TO MEASURE FLUID IN A BODY SEGMENT"; Patent No.: **US 10098556 B2; Oct. 2018.**
3. **US Patent:** "SYSTEMS AND METHODS TO MEASURE FLUID IN A BODY SEGMENT"; **2019.**

### **Participation in International Conferences:**

1. 1<sup>th</sup> European Medical and Biological Engineering Conference (EMBEC'99)  
Vienna-Austria, 4-7 November, 1999
2. 9<sup>th</sup> International Conference on Signal, Image Processing and Pattern Recognition (SIPP 2021), Vancouver-Canada, 29-30 May, 2021.
3. International Conference on Biomedical Engineering (ICBME 2022-Damascus),  
Damascus-Syria, 16-18 May, 2022.

### **Written books:**

1. Mamdouh Monif, Mansour Altaweel: Drawing Techniques and Troubleshooting.  
Damascus University Publications, Technical Institute for mechanical and  
electrical engineering, 2018

### **Translated Books for King Saud University:**

1. "Handbook of Biomedical Instrumentation", R.S. Khandpur; McGraw-Hill,  
Second Edition, 2008
2. "Clinical Engineering Handbook", Joseph F. Dyro; Elsevier Academic Press,  
2004
3. "Medical Technology Management Practice", Anthony Y. K. Chan; Charles C  
Thomas. Publisher, LTD, 2003
4. "Bioinstrumentation", John D. Enderle; Morgan & Claypool, 2006
5. "X-RAY REPAIR: A Comprehensive Guide to the Installation and Servicing of  
Radiographic Equipment", JOSEPH J. PANICHELLO, CHARLES C THOMAS  
PUBLISHER, LTD. Springfield Illinois U.S.A. 2006
6. "SIGNAL PROCESSING OF RANDOM PHYSIOLOGICAL SIGNALS",  
Charles S. Lessard, M & C Morgan & Claypool Publishers, 2006.

## **Reviewing Books and Articles:**

1. دراسات تجريبية بخصوص التحديد الالاجراحي لجريان الدم الدماغى عند البالغين من الناس بطريقة التحليل الطيفى  
للأشعة تحت الحمراء القريبة (PhD thesis)
2. Imaging Systems and Medical images processing 1 Book: Damascus University Publications, Faculty of Mechanical and Electrical Engineering, biomedical engineering department, 2016.
3. Electrical Measurement Book: Damascus University Publications, Faculty of Mechanical and Electrical Engineering, biomedical engineering department, 2018.
4. Underwater Communications (Book at Prince Sultan University)
5. Bioinstrumentation (translated book at King Saud University)
6. The Contact Stress Calculations in Artificial Hip-joint by Finite Element Method (Article)

## **Vision:**

**“Hard and thriving work is the way to long-term success”**

Damascus 01/06/2022

**Dr. Eng.**

**Mamdouh MONIF**