Nisreen Sulayman

PERSONAL INFORMATION

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Gender Female | Date of birth 1978 | Nationality Syrian

WORK EXPERIENCE

23 Apr 2018 - Present

Lecturer
Biomedical Engineering Department, Faculty of Mechanical and Electrical Engineering, Damascus University

Teaching courses:

Master	Artificial intelligence and expert systems
Graduation	Medical Imaging System and Image Processing (2)
Under-graduation	Medical Imaging System and Image Processing (1)

Supervising graduation projects.
Supervising master's theses.
Supervising PhD students.

2016 - Present

Part time Lecturer
Faculty Of Dentistry, Syrian Private University.

Teaching courses**:**
Medical Physics.

19 Mar 2002 - 22 Apr 2018

Assistant Lecturer
Biomedical Engineering Department, Faculty of Mechanical and Electrical Engineering, Damascus University.

Teaching courses:
Programming/1/, Medical equipments/1/, Medical equipments/2/, Medical equipments/3/, Principles of Medical Engineering, Medical Imaging Systems and Image Processing (1), Medical Imaging Systems and Image Processing (2), Safety in Medical engineering, Maintenance strategies of medical devices, Nuclear medicine, Modeling and simulation, Bio-Signal processing, Radiation physics, Artificial Organs, Hospital Engineering.

Supervising under graduation projects.

EDUCATION AND TRAINING

2012 - 2015	PhD in Biomedical Engineering (Honours degree). Damascus University, Damascus, Syria. Title: "A study in the field of building an efficient content-based mechanism to retrieve images from a medical images database" The research consists of three phases: Cerebral Digital Subtraction Angiography (DSA) images enhancement, Cerebral Saccular Aneurysms detection and segmentation and finally building the content-based image retrieval system for cerebral saccular aneurysms (CBIR-CSAs).
2005 - 2007	Master in Biomedical Engineering (Honours degree). Damascus University, Damascus, Syria. Title: "Measuring perfusion in dynamic angiographic images"
2003	Diploma in Biomedical Engineering. Damascus University, Damascus, Syria.
2001	Bachelor in Biomedical Engineering. Damascus University, Damascus, Syria.

AREAS OF INTEREST

Medical Imaging Systems, Digital Image Processing, Computer Vision, Digital Signal Processing, Cerebral Imaging, Content based image retrieval, Artificial Intelligence, Machine learning, Deep Learning,

PERSONAL SKILLS

Mother tongue(s)   Arabic

Other language(s)

	UNDERSTANDING	SPEAKING	WRITING
English	Very good	Very good	good

ADDITIONAL INFORMATION

Certifications

30 Mar 2011 - 28 Jul 2011	**Certificate in Information Security** India Syria Centre Of Excellence For Information Technology(ISCIT), Damascus(Syria)
13 Jan 2007	**International Computer Driving License (ICDL)** Damascus(Syria).

ONLINE Certifications

AI IN HEALTHCARE (2022), Introduction to Healthcare, Introduction to Clinical Data, Fundamentals of AI and Machine Learning in Healthcare, valuations of AI Applications in Healthcare, AI in Healthcare Capstone Project
Stanford University

Artificial Intelligence for Breast Cancer Detection (2022)
Johns Hopkins University

Neural Networks and Deep Learning (2022)
DeepLearning.AI

Python Data Structures (2022)
University of Michigan

Programming For Everybody (Getting Started with Python) (2022)
University Of Michigan

Machine Learning (2020)
Stanford University

Learning to Teach Online (2020)
UNSW Sydney (The University of New South Wales)

Introduction to Artificial Intelligence (AI) (2020)
IBM Skills Network

AI For Everyone (2020)
DeepLearning.AI

Computer Vision Basics (2020)
University at Buffalo

Computational Vision (2020)
University of Colorado Boulder

MRI Fundamentals (2020)
Korea Advanced Institute of Science and Technology (KAIST)

Fundamental Neuroscience for Neuroimaging (2020)
Johns Hopkins University

Image and Video Processing: From Mars to Hollywood with A Stop at the Hospital (2019)
Duke University

Data Science Math Skills (2019)
Duke University

Image Processing, Features & Segmentation (2019)
University at Buffalo

Introduction To Machine Learning (2019)
Duke University

Scholarly Communication (2019)
Moscow Institute of Physics and Technology

Presentation Skills: Designing Presentation Slides (2018)
National Research Tomsk State University

Fundamentals of Digital Image and Video Processing (2018)
Northwestern University

CONFERENCES

2 Dec 2017 - 7 Dec 2017   **Invited Keynote Speech:** Invited as a keynote speaker at the: 1ST Conference on Medical and Dental Applications of Laser, Speech title: "Dental Laser Devices and Laser Safety". Syrian Private University.
Damascus(Syria)

PRESENTATIONS

Sulayman, N., Al-Mawaldi, M., Kanafani. A study in the field of building an efficient content-based mechanism to retrieve images from a medical images database. Poster presented at: Scientific research workshop, Damascus University, June 2021, Damascus, Syria.

PUBLICATIONS

Sulayman, N. (2013) "Estimating Cerebral Blood flow in angiographic images from Residue curves". Damascus University Journal For The Engineering Sciences. Vol.29 , no. 2.

Sulayman, N., Ammar, M., Hossein, J. (2013) "Analysis study of Content Based Medical Image Retrieval Systems" **Damascus University Journal For The Engineering Sciences**. Vol.29 , no. 2.

Sulayman, N., Al-Mawaldi, M., Kanafani, Q. (2015) "Building an images retrieval system based on content of the cerebral digital subtraction angiography" **Tishreen University Journal for Research and Scientific Studies.** Vol.37 , no. 4.

Sulayman, N., Al-Mawaldi, M., Kanafani, Q. (2015) "An enhancement methods in cerebral DSA images for subsequent analysis" **Damascus University Journal For The Engineering Sciences**.

Sulayman, N., Al-Mawaldi, M., Kanafani, Q. (2015) "Semi-automatic detection and segmentation algorithm of saccular aneurysms in 2D cerebral DSA images" **The Egyptian Journal of Radiology and Nuclear Medicine (EJRNM).** Vol 47, Issue 3.

Sulayman, N. (2021) "Comparative Study for Automated Coronavirus Detection in CT Images with Transfer Learning". In press, **Damascus University Journal For The Engineering Sciences**.

Sulayman, N. (2022). "Predicting Type 2 Diabetes Mellitus using Machine Learning Algorithms". **Tishreen University Journal for Research and Scientific Studies.** Vol.44, no. 5.