



Name : Dr. Tariq Ibrahim Alshwaheen

Birth : 13 April 1981

Address : King Abdullah II St 230, Amman

Phone : +962-777179847

Email : iatariq@live.utm.my

Expertise: Biomedical Engineering, Medical Informatics,
Artificial Intelligence, Deep Learning, Big Data

Education

Universiti Teknologi Malaysia Johor, Malaysia
PhD (on Biomedical Engineering) 2017-2021
Dissertation: Patient Deterioration Predictive Model Using Long Short-Term Memory Recurrent Neural Network with Genetic Algorithm Optimization

Yarmouk University Irbid, Jordan
MSc (Embedded Systems Engineering) 2017
Thesis: Smart WiFi Controlled Car using Arduino UNO Microcontroller

The Hashemite University Zarqa, Jordan
Bachelor (on Biomedical Engineering) 2003

Professional / Society Membership

IEEE - Engineering in Medicine and Biology Society 2020 - current
UTM-IJN - Research Fellow at UTM-IJN Cardiovascular Engineering Center 2017- current
JEA - Jordan Engineers Association 2003 - current
Publons - Member in Publons community 2020 - current
Computers in Biology and Medicine Journal - Reviewer 2021- current
Science Publishing Group, USA - Member 2021 – current
American Journal of Artificial Intelligence - Reviewer 2021 - current

Employment

Institute of Medical Device Technology, RMS Amman, Jordan
2005 – current
Full-Time Lecturer 2017 - current

- Head of Medical Devices Lab
- Academic supervisor for 2nd year students

- Taught classes with more than 15 students, presented lectures, conducted workshops, and participated in other activities to further educational program in Biomedical Engineering with different topics such as Medical Devices II and Digital Logic
Contact: Eng. Moh'd Ghwairi - RMS - Ghwairy@yahoo.com

Patient Deterioration Prediction Project

IJN, Kuala Lumpur, Malaysia
2019 - 2021

- Project in Institute Jantung Negara – National Cardio Center, Malaysia. Clinical Research Database and Online Management System Development
Contact: Assoc. Prof. Dr. Moh'd Haikal - haikal@sensenet.my, Mrs. Norfazlina - IJN - norfazlina@ijn.com.my

Leader of the Medical Device Operator / Prince Zaid Bin Al-Hussain Hospital

Taffileh – Jordan

- Supervised biomedical technicians and engineers, schedules work hours, resolved conflicts
2005 - 2007
Contact: Eng. Naser Zo'abi – King Hussein Cancer Center – (+962) (777179847)

Medical Devices Maintenance Engineer / King Hussein Medical Center

Amman, Jordan

- Supervised biomedical technicians and engineers
2007 - 2012
- Studying bids for medical devices, setting specifications for devices
- Maintenance of sterilization devices

Building Management System Engineer (BMS) / Queen Rania Hospital for Pediatrics
Control electrical and electronics systems in the hospital

Amman, Jordan

Leader of the Medical Device Operator / Prince Hashem Bin Abdulla Military Hospital

Aqaba, Jordan

- Resolved technical issues in medical devices in hospital
2012 – 2015
- Contact local agents for medical devices under warranty

Publications

Journals

- Tariq Ibrahim Abdel Latif Al-Shwaheen, Mehrdad Moghbel, Yuan Wen Hau, Chia Yee Ooi, Use of learning approaches to predict clinical deterioration in patients based on various variables: a review of the literature, Artificial Intelligence Review, 13 March 2021 (Q1, IF = 5.747).
- Tariq Ibrahim Abdel Latif Al-Shwaheen, Yuan Wen Hau, Nizar Ass'ad, Mahmoud M. Abualsamen, A Novel and Reliable Framework of Patient Deterioration Prediction in Intensive Care Unit Based on Long Short-Term Memory-Recurrent Neural Network, IEEE Access, Vol. 9, pg. 3894-3918, 24 December 2020 (Q1, IF = 3.745).
- Tariq Ibrahim Abdel Latif Al-Shwaheen and Yuan Wen Hau, A New Model for Tracking Deterioration of Vital Signs by Means of Artificial Neural Network, Journal of Theoretical and Applied Information Technology (JATIT), Vol. 97, No. 14, pg. 3809-3818, 31 July 2019. (Q1, IF = 0.628)

Medal and Awards

- Massachusetts Institute of Technology Affiliates - CITI PROGRAM - Human Research - Data or Specimens Only Research
30 Jul 2019
Verify at: www.citiprogram.org/verify/?we595044d-1549-4e97-a764-eda9eb49e14d-32581235

- Massachusetts Institute of Technology Affiliates - CITI PROGRAM - Biomedical Responsible
 Conduct of Research - Data or Specimens Only Research 29 Jul 2019
 Verify at: www.citiprogram.org/verify/?we595044d-1549-4e97-a764-eda9eb49e14d-32581236
 Award Certificate from Web of Science Workshop at UTM - Clarivate Analytics - JB – Malaysia
 Verify at: Web of Science 14 Aug 2019

Speakers, Trainer, Participations

- Trainer, Tuttlingen, Germany, Service Training for KARL STORZ equipment, cold light fountains, insufflators, pumps, high frequency units, lithotripters, motor systems: 08.-12.0310, correct installation, 1st line troubleshooting, service and maintenance, safety checks, adjustments based on service manuals 13 Mar 2010
 Verify at: info@karlstorz.com and k.emmerich@karlstorz.de
- Participant members, The Dead Sea, Jordan, 4th ICMM Pan Arab Regional Working Group Congress on Military Medicine 4 Nov 2014
 Verify at: getlasik@bostonlaser.com
- Trainer, Dubai, UAE, Alcon Wave Light EX 500 Service Program 30 Mar 2015
- Speaker, Amman, Jordan, The 5th International Medical Conference of Prince Hussein Bin Abdullah II Hospital 27 Jul 2017
- Participant members, Amman, Jordan, The 1st International Medical Conference of Prince Hamzah Hospital 9 Mar 2017
- Participant members, Madaba, Jordan, The 1st International Medical Conference of the Sub-Committee of the Medical Association / Madaba 28 Sep 2017
- Participant members, Jerash, Jordan, The 2nd International Medical Conference of the Sub-Committee of the Medical Association / Jerash 12 Apr 2018
- Participant members, Al Karak, Jordan, The 4th International Medical Conference / Al Karak 5 Jul 2018
- Participant Members, Amman, Jordan, The 15th International Conference of Jordan Society of Internal Medicine 31 May 2021
- Participant Members, JB, Malaysia, Deep Learning for image Processing Workshop 8 Mar 2019
- Participant members, Am-Mafraq, Jordan, The 1st International Medical Conference of Al-Mafraq Governmental Hospital 1 Oct 2019
- Participant members, Amman, Jordan, The first international health conference for the Jordan Healing and Health Bank 19 Mar 2020
- Participant members, KL, Malaysia, Research Writing and Publication Workshop Series 2 Sep 2020
- Participant members, KL, Malaysia, Research Writing and Publication Workshop Series, An introduction to Scholarly Publishing 6 Oct 2020