

TAHA ALHERSH



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Robert-Koch-Str. 30
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SKILLS

Computer Vision
Deep Learning
Machine Learning
PERL
SPSS
MATLAB
C++
R&D
WEKA
Java
Python

ACHIEVEMENTS

- Best Graduating Student Intelligent Systems Class 2010, University Utara Malaysia.
- Bronze medal in Invention, Innovation and Technology Exhibition (ITEX 2009) Kuala Lumpur, Malaysia.
- Fellowships from Harvard-Massachusetts Institute of Technology, Division of Health Sciences & Technology Athinoula A. Martinos Center for Biomedical Imaging, USA
 - Multi-Modality Neuroimaging
 - fMRI visiting fellowship

PROFILE

- Strong professional IT background.
- Experience in cutting edge Research and Development.
- Professional programming skills.
- Active learning, complex problem solving and critical thinking capabilities.
- Inductive and deductive reasoning abilities.

EDUCATION

- MSc in Intelligent Systems, College of Arts and Science, University Utara Malaysia, 2010.
- BSc Computer Science, School for Information Technology, The University of Jordan, 2005.

PROFESSIONAL EXPERIENCE

Researcher

Nov 2016 – Now | Mannheim University, Germany

- Deep learning or optical flow estimation using supervised and unsupervised methods.
- A Motion-Visual Sensor System for Spare Part Logistics for BMW inventory.
- Activity recognition using motion in ego-centric vision.

Research Assistant

Jun 2015 – Aug 2016 | Monash University, Malaysia

- Provide Coordination and consultation to data center providers, system integrators, Malaysian Ministry of Health and Academia in terms of information technology infrastructure (Hardware and Software) in Hybrid cloud environment for Personal Health Record (PHR) project.
- Working on project for early detection of seizure detection using EEG and ECG.
- Supervising students with Multidisciplinary research nature (Engineering and Computing) and Medicine.

LANGUAGES

- Arabic: Mother tongue
- English: Fluent
- German: Basic

ONLINE COURSES



Introduction to Neuroeconomics: how the brain makes decisions (2014)



The Addicted Brain (2014)



The Brain and Space (2014)



Statistical Analysis of fMRI Data (2014)

From the Big Bang to Dark Energy (2013)



Machine Learning (2012)

AFFILIATIONS

- Society for Neuroscience (SfN).
- International Brain Research Organization (IBRO)
- Institute of Electrical and Electronics Engineers (IEEE).
- IEEE Engineering in Medicine & Biology Society (EMBS).

Freelance Researcher & Developer

Aug 2012 – May 2015

- Working on a generic object detection system which consists of two stages, object detection with template matching technique and classification with wavelet features and classification with Clustering k-nearest neighbor.
- Breast Cancer Classification Project: A system for breast cancer classification and it was tested on the Mammographic Image Analysis Society (MIAS) dataset was developed.
- DNA Sequences Analysis Project: A new system and concept for species identification using DNA sequence classification and statistical feature extraction was developed.

Researcher & Lecturer

Sep 2011 – Aug 2012 | University Technology Petronas, Malaysia

- Establishing the first simultaneous EEG-fMRI research facility (infrastructure, software and operation) in Malaysia with collaboration with two universities; Technical University Petronas and Hospital University Science Malaysia.
- Conducting many EEG, fMRI and EEG-fMRI experiments using 3T MRI machines and 128 EEG channels.
- Grading of Addiction Level Using neuroimaging: Develop a technique to measure and grade the level of addiction by comparing the variability between subjects (inter-subject variability) and within subjects (intra-subject variability).

Online Champion

Apr 2011 – Jan 2012 | Society for Neuroscience, USA

- Monitor and restrain discussions within the Bioinformatics / Neuroinformatics online community that is a part of NeurOnLine.
- Increasing and improving member engagement.

Project Leader

Apr 2010 – Oct 2010 | University Utara, Malaysia

- Worked in a research project titled "An Indexing Mechanism for Machine Learning Engines" funded by University Utara Malaysia. The objective of this research is to build an indexing mechanism that categorizes different machine
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learning engines through identifying the functional and structural descriptors. The output was a model developed using JAVA with adding classes to Java Latent Semantic Indexing (jLSI) tool, and has been tested on neural network, decision trees and k-nearest neighborhood engines.

Database Administrator and System Administrator

Jan 2004 – Mar 2008 | Royal Jordanian Air Force, Jordan

- ORACLE 9i & 10g database systems and servers
- Sun Solaris 9 and 10 Operating systems and servers

IT Instructor, Coordinator and Supervisor

Jul 2005 – Jan 2008 | Prince Faisal Tech. College, Jordan

- Teaching various subjects of IT.
 - Coordinating classes and time tabling.
 - Supervising final year projects for students.
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