

# **Curriculum Vitae**

# Dr. Shihadeh K. Alqrainy

Associate Professor Department of Software Engineering – Faculty of IT – Philadelphia University

## ADDRESS FOR CORRESPONDENCE

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### PERSONAL INFORMATION

Marital Status: Married Nationality: Jordanian Date of Birth: 14th Sept 1962

### SUMMARY OF QUALIFICATIONS

- **PhD** in **Artificial Intelligence** and (**Software Engineering**) 2005-2008, DE MONTFORT University – Leicester - UK.
- **MSc** in Computer Science and Information Systems. 2000-2003, Yarmouk University – JORDAN.
- **BSc** in Computer Science. 1981-1985, Yarmouk University – JORDAN.

### PROFESSIONAL EXPERIENCE

### Posts:

Oct 2024 – present	Associate Professor – Philadelphia University		
Oct 2023 – Oct 2024	Associate Professor – Albalqa' Applied University (BAU).		
Sep 2019 – Sep 2023	Associate Professor – Albalqa' Applied University (BAU).		

Aug 2016 – Aug 2019	Associate Professor – Saudi Electronic University (SEU) - K.S.A
Aug 2014 – Aug 2016	Associate Professor – Albalqa' Applied University (BAU).
Sep 2012 – Aug 2014	Assistant Professor - Albalqa' Applied University (BAU).
Sep 2011 – Sep 2012	Assistant Professor – University of Tabuk – K.S.A
Aug 2008 – Aug 2011	Assistant Professor – Albalqa' Applied University (BAU).
Sep 2002 – Sep 2005	Lecturer – Albalqa' Applied University.
Nov 1999 – Sep 2002	<b>Computer Instructor</b> ( $\underline{Part-Time}$ ) – BAU and Private Colleges.
Nov 1999 – Sep 2002	<b>Computer Instructor –</b> Ministry of Education - JORDAN.
Aug 1987 – Nov 1999	Computer Instructor - [Alalamiah Institute for Computer and Technology]

#### Teaching Duties

I have been involved teaching several undergraduate and graduate courses. The relevant courses information is available below:

Artificial Intelligence, Information Retrieval, Fundamentals of Data Science, Selected Programming for Data Science, Data Analysis, Software Engineering (Requirements, Modeling, Design, Development ....), Object Oriented Analysis & Design, Operating Systems, Database Systems management, Project Management, Introduction to Cyber Security, Cyber Criminals and Forensics.

Languages/Packages	C++, Python, Prolog, Enterprise Architect.

- Operating Systems
  Windows, NT, Unix.
- Management

(Sep 2019-Sep 2021)	: Head of Intelligent Systems – Faculty of AI – BAU
(Aug 2016-Aug 2019)	: Coordinator Branch - College of Computation and Informatics and
	Chair of Coordinator of Quality Assurance – Accreditations – Saudi
	Electronic University -KSA
(Aug 2012-Aug 2016)	: Head of Software Engineering Department - Prince Abdullah bin
	Ghazi Faculty of Information and Communication Technology (BAU)
(Aug 2008-July 2016)	: Chair of Quality Assurance - Accreditations - Prince Abdullah bin
	Ghazi Faculty of Information and Communication Technology (BAU)
(Aug 2008-July 2016)	: Chair of Curriculum and Course Equivalent committee - Prince
	Abdullah bin Ghazi Faculty of Information and Communication
	Technology (BAU)

### **MEMBERSHIP / EDITORIAL BOARDS**

 International Journal of Computational Linguistics Research http://www.dline.info/jcl/eb.php
 Journal of Intelligent Computing http://www.dline.info/jic/index.php

# The International Journal of ACM JORDAN http://iswsa2010.acm.org/ Association of Computer Science and Information Technology (IACSIT) http://www.iacsit.org International Business Information Management Association (IBIMA) http://www.ibima.org

### **RESEARCH INTEREST & PROJECT DETAILS**

### Artificial Intelligence (AI) – Software Engineering

#### PUBLICATIONS

		Daw av Titla	Vee	
No	Author(s)	Paper Title	Year	Journal / Conference
1-	Shihadeh Alqrainy et al.	Arabic Part-of-Speech Tagging with Decision Trees: Effects of Algorithm and Dataset Size	2024	Journal of Logistics, Informatics and Service Science Vol. 11 (2024) No. 11, pp. 281-299
2-	Maryam Alzwahra and Shihadeh Alqrainy	Examining the Drivers and Performance Impact of Business Intelligence Adoption in Healthcare Organizations: Evidence from Jordan.	2023	Journal of System and Management Sciences
3-	Shihadeh Alqrainy Muhammed Alawairdhi	Towards Developing a Comprehensive Tag Set for the Arabic Language	2021	Journal of Intelligent Systems
4-	Shihadeh Alqrainy	Arabic Word Class Tagging System Using Pattern-Based Technique	2018	IEEE (EECCMC 2018)
5-	Bilal. Abu-Salih Wongthongtham Dengya. Zhu Shihadeh Alqrainy	An Approach for Time-Aware Domain- Based Analysis of Users' Trustworthiness In Big Social Data	2015	International Journal of Big Data (IJBD) 2 (1) : p 41- 56
6-	Shihadeh Alqrainy	Determining Max/Min Values for Two- Dimensional Mathematical Functions Using Random Crossover Techniques	2014	Journal of Theoretical and Applied Information Technology (JATIT) 65 (3) : p 849 - 853
7-	Haneen Hijazi, Shihadeh Alqrainy Hasan Muaidi Thair Khdour.	Identifying Causality Relation Between Software Projects Risk Factors	2014	International Journal of Software Engineering and Its Applications (IJSEIA) – 8 (2) : p 51 - 58
8-	Haneen Hijazi, Shihadeh Alqrainy Hasan Muaidi Thair Khdour.	Risk Factors in Software Development Phases	2014	European Scientific Journal (ESJ) 10 (3) : p 213 - 232
9-	M.Alkhoffash M.Bawaneh Hasan Muaidi Shihadeh Alqrainy Muath Alzhgool.	A Survey of Digital Image Processing Techniques in Character Recognition	2014	International Journal of Computer Science and Network Security (IJCSNS) 3 (14) : p 65 - 71
10-	Hasan Muaidi Ayat AlAhmad Thair Khdour Shihadeh Alqrainy Mahmud Alkoffash	Arabic Audio News Retrieval System Using Text to Speech Application, Mel Frequency Cepstral Coefficient (MFCC) and Dynamic Time Warping (DTW) Techniques	2014	Research Journal of Applied Sciences, Engineering and Technology ( <b>RJASET</b> ) 7 (24) : p 5082 - 5097
11-	Haneen Hijazi Shihadeh Alqrainy Hasan Muaidi, Thair Khdour.	A Framework for Integrating Risk Management into the Software Development Process	2014	Research Journal of Applied Sciences, Engineering and Technology ( <b>RJASET</b> ) 8 (8) : p 919 - 928

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12-	Hasan Muaidi Mahmud Alkoffash	Context-Free Grammar Analysis for Arabic Sentences	2012	International Journal of Computer Applications (IJCA) 53 (3) : p 7 - 11
13-	M.Alkhoffash Shihadeh Alqrainy Hasan Muaidi M. Wedyan	A Novel Approach for Face Recognition Based on A Multiple Faces Databases	2012	Journal of Software Engineering and Applications (JSEA) 5 (1) : p 1008 - 1012
14-	Shihadeh Alqrainy Hasan Alserhan Aladdin Ayesh	Automated Tagging System And Tag set Design For Arabic Text	2010	International Journal of Computational Linguistics Research (LJCLR) 1 (2) : p 55 - 62
15-	Shihadeh Alqrainy Hasan Alserhan Marwan Alseid Hasan Rashaydeh	Toward Developing a Universal and Standard System for Transliteration and Transcription Arabic Language	2010	15th IBIMA Int'l Conference, Cairo, Egypt. P 2002 - 2007.
16-	Shihadeh Alqrainy Hasan Alserhan Aladdin Ayesh	Pattern-based Algorithm for Part-of-Speech Tagging Arabic Text	2008	IEEE International Conference on Computer Engineering and Systems (ICCES'08). p119 - 124, Egypt.
17-	Hasan Alserhan Shihadeh Alqrainy Aladdin Ayesh	Is Paice Method Suitable For Evaluating Arabic Stemming Algorithms?	2008	IEEE International Conference on Computer Engineering and Systems (ICCES'08). p131 - 135, Egypt.
18-	Shihadeh Alqrainy Aladdin Ayesh	Developing a Tag set for Automated POS Tagging in Arabic	2006	WSEAS TRANSACTIONS on COMPUTERS 5 (11) : p 2787 - 2792
19-	Shihadeh Alqrainy Aladdin Ayesh	Word Class Tagger and Tag set design for partially-vocalized Arabic Text	2006	2nd Jordan International Conference on Computer Science & Engineering (JICCS'E06), p112 - 116, Jordan.
20-	R. Alshalabi G. Kannan Shihadeh Alqrainy	An Automatic System For Extracting Nouns From A vocalized Arabic Text	2003	Proceedings of "The 2003 Arab conference on Information Technology (ACIT'2003)", Egypt. p 60 - 66.

# MSc and PhD EXAMINATION

I have participated as External and Internal examiner for the following PhD/Master students:

No	Student Name	Thesis Title	Year	Thesis Type	Location
1-	Feras Mashaqbeh	Evaluate the Effectiveness of Genetic Algorithm (GA) in Information Retrieval Based on Arabic Documents.	2008	PhD	University of Banking and Financial Sciences
2-	Manal Khulyfat	Evolving Artificial Neural Network Using Parallel Genetic Algorithm to Model a Winding Machine	2009	Msc	Albalqa Applied University
3-	Bilal Abu Saleh	Experiments with Different Clustering Techniques to Enhance Arabic Information Retrieval	2009	PhD	University of Banking and Financial Sciences
4-	Monzer Qasem	Hybrid Knowledge Representation Scheme for Expert System	2009	PhD	University of Banking and Financial Sciences
5-	Ibrahim Mansi	Critical Success Factors for Achieving Performance Excellence: Technology Change at Jordan Telecom Group	2009	PhD	University of Banking and Financial Sciences

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6-	Wafa Alshorfat	Development of Genetic Based Machine Learning Algorithm for Network Intrusion Detection	2009	PhD	University of Banking and Financial Sciences
7-	Jazia Qatnani	Strategic Alignment Between Business and IT Based on Knowledge Based View and Dynamic Capabilities Approach	2009	PhD	University of Banking and Financial Sciences
8-	Aref Alfetyani	Development and Investigation of a new Data Compression Technique Using Boolean Minimization	2009	PhD	University of Banking and Financial Sciences
9-	Nazeer Ghraybeh	Theoretical Software Development Methodology for Building DSS	2009	PhD	University of Banking and Financial Sciences
10-	Tahseen Ramaden	Reduction Technique for Instance-Based Learning Using Distributed Genetic Algorithm	2009	PhD	University of Banking and Financial Sciences
11-	Farah Zawaydeh	Using Genetic Algorithm to Improve Naïve Bayesian Classifier for Arabic Documents Categorization	2009	PhD	University of Banking and Financial Sciences
12-	Marwan Zanonah	Developing a Novel Model for Arabic Handwritten Text Recognition (AHRS)	2009	PhD	University of Banking and Financial Sciences
13-	Abdullah Oqaili	A framework Model for Successful Implementation of Outsourcing and Reversibility in Information System	2010	PhD	University of Banking and Financial Sciences
14-	Ali Shaltoni	Analysis of Artificial Neural Networks used in Optimized Arabic Letters Recognition	2010	PhD	University of Banking and Financial Sciences
15-	Rabab Abu Maloh	Arabic Part-of-Speech Tagger: An Approach Based on Neural Network Modeling	2010	Msc	Albalqa Applied University
16-	Basim Zaghmori	Multicasting in Ad-hoc Network Based on Genetic Algorithm Approach	2010	PhD	University of Banking and Financial Sciences
17-	Safa,a Alrawi	Building a Database for Recognition Arabic Handwritten Forms for the Research Purposes	2011	Msc	Albalqa Applied University
18-	Meran Alhadidi	Keywords Extraction Using Page Rank Algorithm for Arabic Text	2014	Msc	Albalqa Applied University
19-	Ala'a Abu Hudaib	Building an Intelligent System for Prediction the Children Heart Diseases Based on Electrocardiogram (ECG) Analysis	2014	Msc	Albalqa Applied University
20-	Osama Alsemerat	An Intelligent Model for Software Project Risk Prediction	2014	Msc	Albalqa Applied University
21-	Maysa Alsamerai	The Relationship Between Trust Factors and Users Satisfaction in E-commerce Service	2014	Msc	Amman Arab University
22-	Ahmad Alshalabi	Decision Support Systems and its Impact on the Performance of Employees in Telecom Companies	2015	Msc	Amman Arab University
23-	Ali Saab	Cloud Computing Access Authentication Through Mobile Device Based on Face Recognition	2015	Msc	Amman Arab University

24-	Loai Alqudah	A comprehensive Comparative Study Among Important Heuristic Search Algorithms in AI	2015	Msc	Princess Sumaya University for Technology
25-	Abdelnaser Alsarkhi	The Effect of Knowledge Management Processes on Enhancing Capacity Management Decisions in Jordan Telecom Companies	2016	Msc	Amman Arab University

## MSc SUPERVISION

I have successfully supervised the following Master students:

No	Student Name	Thesis Title	Year	Thesis	Location
				Туре	
1-	Amal Ashour	The Efficiency of Applying Vector Space Model (VSM) Techniques in Information Retrieval for Arabic Language : A Comparative Study	2011	Msc	Albalqa Applied University
2-	Nancy Alramahi	Arabic Part-of-Speech Tagging System Using Transformation-Based Learning (TBL) Approach	2011	Msc	Albalqa Applied University
3-	Jihan Alelyan	An Automated System for Parsing Arabic Text Using Top-Down Approach	2011	Msc	Albalqa Applied University
4-	Ikhlas Alsakarneh	Building an Automated System for Parsing the Context-Free Arabic Grammar	2015	Msc	Albalqa Applied University
5-	Yosef Abu Elbeh	Developing Arabic Part of Speech Tagging Using Machine Learning	2016	Msc	Albalqa Applied University

### LANGUAGE PROFICIENCY

Arabic:Native Language.English:Writing, Reading, Speaking [Excellent].

## **REFERNCES**

Prof . Riyadh Alshalabi - AMMAN ARAB UNIVERISTY -JORDAN	E-mail: <u>shalabi@aau.edu.jo</u>
Prof. Aladdin Ayseh - DE-MONTFORT UNIVERSITY - UK	E-mail: <u>aayesh@dmu.ac.uk</u>
Prof. Mohammed Alawairdhi Saudi Electronic University	E-mail: malawairdhi@seu.edu.sa