

SULEYMAN AL-SHOWARAH

Mutah University, Jordan

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Date of Birth (Year): 1979 **Gender:** Male **Nationality:** Jordanian

PERSONAL STATEMENT

As an experienced person who has dealt with students from different cultural backgrounds, and has gained his PhD degree in Computer Science/ Software Engineering in February 2015 from the University of Buckingham, England - UK.

My PhD thesis was concern with investigating the effects of age on smartphones and tablets usability using eye-movement tracking and touch-gestures interactions. The last research project of my thesis investigated the possibility of classifying user's age-groups on smartphones using gesture-based applications. The user's age-groups classification research could be used as a system to let the users interact with the technology based on their abilities that will let the system turn into a particular setting to fit their needs and performance abilities, especially for elderly users. This eventually leads to the customization of user interfaces to increase the usability of smartphone for elderly users. In this research, we suggested to use it for users who are not able to set-up their own smartphones and for touchscreen devices in the public systems.

Recently, there were number of researches have been published in the field of machine learning algorithms, and these researches were conducted to user identification based on touch-gestures and handwriting on smartphones.

The interesting subjects in teaching in Computer Science and Information Technology include Smartphone programming languages based on touch-gesture interactions and others mentioned below. During the course of my PhD, I was acting as a teaching assistant at the University of Buckingham.

In the last year of my PhD study (Nov 2014), I joint to the Buckinghamshire University Technical College as a lecturer of Computer Science, as well as a supervisor on number of students' projects that mainly were in mobile application programming.

Suleyman's research interests are in Artificial Intelligence, Computer Vision, Machine Learning, and Deep Learning. He has co-authored number of journal and conference papers. He has successfully supervised/co-supervised a number of MSc projects and continues to supervise a number of MSc projects in AI, Biometrics, Deep Learning, and Cyber Security. He is the module lead for AI, Deep Learning, Software Project Management, and Software Engineering

In addition to my experience in academic research, I have taught a number of topics in the field of computer science and software engineering such as mobile application programming

(Android OS), web technology, computer programming, computer fundamentals, data bases and software engineering.

During my work in the United Kingdom, Saudi Arabia, and Jordan, I gained supervision experience on students' graduation projects (i.e., undergraduates' and postgraduates' students) based on software engineering methodology, computer programming, mobile computing, data mining and data analysis, which involved applying a wide range of Machine Learning Algorithms, Deep Learning Algorithms and Statistical Analysis Methodologies.

EDUCATION

- Doctor of Philosophy (PhD) in Computing.

July 2011 – February 2015, The University of Buckingham, England - UK.

Thesis title: EFFECTS OF AGE ON SMARTPHONE AND TABLET USABILITY, BASED ON EYE-MOVEMENT TRACKING AND TOUCH-GESTURE INTERACTIONS.

- Dphil (MSc.) of Computer Science.

July 2011 – Sep 2012, The University of Buckingham, England - UK.

- MSc. of Computer Science /Information Technology.

September 2006 – July 2008, The University of Sunderland, England - UK.

- BSc. of Computer Science.

September 2000 June 2004, Al-Isra University, Jordan.

EMPLOYMENT

- Mutah University (Karak, Jordan), Head of Computer Information Systems Dept., October 2018 – Present.

- Mutah University (Karak, Jordan), Assistant Professor in Computer Science, October 2016 – Present.

- Al-Isra University (Amman, Jordan), Assistant Professor in Computer Science, September 2015 – September 2016.

- Buckinghamshire University Technical College (England, UK), Lecturer of Computer Science, December 2014 – July 2015.

- Harrow College (England, UK), Visiting Lecturer of Computer Science, Nov-2014 – July 2015.

- University of Buckingham (England, UK), Teaching Assistant, 2012-2015.
- University of Hail (Kingdom of Saudi Arabia), Lecturer of Computer Science, 2008 – 2011.
- Ministry of Education (Jordan, Madaba), Lecturer of Computer Science, 2006 – 2008.
- Scientific Collage (Jordan, Amman), Lecturer of Computer Science, 2004- 2006.
- Madaba Centre For Information Technology (Jordan, Madaba), Trainer for Information Technology & Computer Science, 6 Month.

KEY SKILLS & ACHIEVEMENTS:

- Ability to learn new subjects regarding Computer Science and Information Technology field.
- Ability to interact at all levels of hierarchy since I was dealing with undergraduate students, and postgraduate students.
- Ability to plane and execute tasks according to strict time-schedules.
- Ability to delegate tasks among individuals i.e. students and monitor their project progress.
- Understanding the student's abilities and needs of looking for library resources i.e. how and where to find them.
- Ability to work in team under pressure.
- Valuable opportunity to deal with all age-groups and gain experiences in communicating with them.
- Dealing with difficult situations by quick and suitable response.

PUBLICATIONS

1. Suleyman Al-Showarah (2019), "*Dynamic Recognition for User Age-Group Classification Using Hand-Writing Based Finger on Smartphones*", 2019 10th International Conference on Information and Communication Systems (ICICS). DOI: 10.1109/IACS.2019.8809083. (URL: <https://ieeexplore.ieee.org/abstract/document/8809083>) Last access: 4/2/2019.
2. Suleyman A. Al-Showarah, Sherin Salem (2017). "*The Effect of Age and Screen Sizes on the Usability of Smartphones Based on Handwriting of English Words on the Touchscreen*". Natural and Applied Sciences Series Journal, Mutah University – Karak, Jordan.
3. Suleyman Al-Showarah, (2017). "*The Effectiveness of Dynamic Features of Finger Based Gestures on Smartphones' Touchscreens for User Identification*". *International Journal of Interactive Mobile Technologies (IJIM)*, Vol 11, No 1 (2017). (URL: <https://online-journals.org/index.php/i-jim/article/view/6368/0>). Last access: 13/10/2019.

4. Suleyman Al-Showarah (2017). "How significant is the individual differences in Finger based Gestures on Smartphones' touch-screen for User Identification?". *Journal of Theoretical and Applied Information Technology*(JATIT), Vol.95. No.3 (2017), ISSN:1992-8645, E-ISSN:1817-3195. (URL: <http://www.jatit.org/volumes/Vol95No3/4Vol95No3.pdf>). Last access: 13/10/2019.
5. Al-Showarah, S., Al-Jawad, N., Sellahewa, H., (2015). "User-Age Classification Using Touch Gestures on Smartphones", *International Journal of Multidisciplinary Studies (IJMS)*, Volume 2, Issue 1, 2015. (URL: <https://ijms.sjoi.info/articles/abstract/10.4038/ijms.v2i1.57/>). Last access: 4/2/2019.
6. Al-Showarah, S., Al-Jawad, N., Sellahewa, H., (2014). "Effects of User Age on Smartphone and Tablet Use, Measured with an Eye-Tracker via Fixation Duration, Scan-Path Duration, and Saccades Proportion". HCI International 2014. International Conference on Universal Access in Human-Computer Interaction. UAHCI 2014: Universal Access in Human-Computer Interaction. Universal Access to Information and Knowledge pp 3-14. Springer International Publishing, pp. 3-14. (URL: https://link.springer.com/chapter/10.1007/978-3-319-07440-5_1). Last access: 13/10/2019.
7. Al-Showarah, S., Al-Jawad, N., Sellahewa, H., (2014). "User's Age Classification on Smartphones using Gesture-based Applications". BCS Doctoral Consortium 2014, London Central Branch.
8. Al-Showarah, S., Al-Jawad, N., Sellahewa, H., (2013). "Examining eye-tracker Scan-paths for elderly people using smart phones". York Computer Science (YCS) technical report, pp. 255-261. (URL: <https://www.cs.york.ac.uk/ftplib/reports/2014/YCS/493/YCS-2014-493.pdf>). Last access: 4/2/2019.
9. Suleyman A. K. Al-Showarah, (2010). "Assessment Jordanian Universiies Students towards e.learning: as a process to imporve Learning". WICE 2010. World International Conference on Education. Amman-Jordan.

INTERESTING TEACHING SUBJECTS:

- Smartphone Applications Programming (Android OS).
- Software Engineering.
- Web design Technology

- Human Computer Interactions.
- Microsoft Project Management.
- Data Bases Programming (SQL server, and mySQL).
- Computer Programming Languages e.g. VB.Net, C, C ++.
- Data Mining.
- Data Structure.
- E-Learning and E-Commerce (Assessment, and Strategy).
- Fundamental of Computing.

PERSONAL INTERESTS

Reading, soft music, walking, swimming, and table tennis.