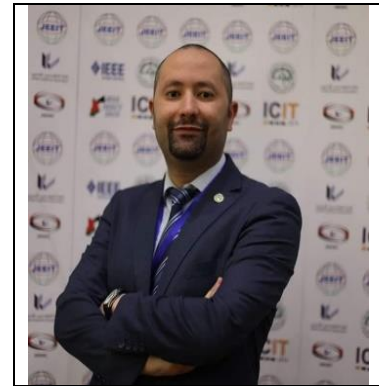| QFG11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

CURRICULUM VITAE

Mohammad Mahmoud Aref Abdallah

*Software Engineering Department, Faculty of Science
and Information Technology
Al-Zaytoonah University of Jordan, Amman, Jordan
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1. Education

- Ph.D. (Software Engineering) 2012, Durham University, Durham, Durham County, UK

- M.Sc. (Software Engineering) 2008, Bradford University, Bradford, West Yorkshire , UK

- B.Sc. (Computer Science) 2007, Al-Zaytoonah University of Jordan, Amman, Jordan

2. Ph.D. Dissertation

A Weighted Grid for Measuring Program Robustness, Durham University, Durham, Durham County, UK.

3. Employment

Academic Positions

- Assistant Professor Rank A, Software Engineering Department, Al-Zaytoonah University of Jordan, Amman, Jordan
  January 2018 – now.
- Assistant Professor, Software Engineering Department, Al-Zaytoonah University of Jordan, Amman, Jordan
  October 2012 – January 2018.
- Teaching Assistant, Computing Studies, Durham University, Durham, UK

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__Administrative Positions__

- Director of Technology Transfer Office, Deanship of Scientific Research, Al-Zaytoonah University of Jordan, Amman, Jordan – 10/2020 – Present.
- Chairman of Computer Science Department, Science and IT, Al-Zaytoonah University of Jordan, Amman, Jordan – 10/2016-10/2017.
- Chairman of Software Engineering Department, Science and IT, Al-Zaytoonah University of Jordan, Amman, Jordan – 10/2015-10/2016.

4. **Research Interests**

   Software Quality, Software Measurement, Program Analysis and Big Data.

5. **Membership in Scientific Societies and Associations**

- **2020 – Present:** Al-Zaytoonah Representative in Academic Network for Development Dialogue (ANDD), ESCWA, UN.
- **2018 – Present:** ACM Professional member– SIGCHI and SIGSOFT Member.
- **2018 – Present:** Board Member - Jordan Computer Society (JCS)
- **2017 – Present:** Jordan Country Officer - International Federation of Global and Green ICT (IFGICT).
- **2017 – Present:** Professional Member of Association for Computing Machinery (ACM).
- **2017 – Present:** Member of the International Association of Engineers.
- **2008 – 2012:** Student member of The British Computer Society (BCS).
- **2010 – 2012:** Student member of Association for Computing Machinery (ACM).

6. **Teaching Experience**

   - *Graduate Courses*

     Advanced Software Architecture.
     Advance Software Quality.

   - *Undergraduate Courses*

     Introduction to Software Engineering.
     Technical writing.
     Software Economics.
     Software Design.
     Software Architecture.

Software Modeling.
Software Verification and Validation.
Software Maintenance and Reengineering.
Software Quality.
System Analysis and Design.
Special Topics in CS, SE
  and supervised many students in their final year projects.

7. **Supervision of Graduate Research**

   PhD Degree
   - Moath Tarawneh. Thesis title: A New Model for Measurement and Visualization Software Metrics for Java Program. (Start February 2020)

   Master Degree
   - Hussam Hourani. Thesis title: A New Change Management Framework Integrated with the Software Development Lifecycle. (Finished May 2019).
   - Tamara Jaber. Thesis title: A Proposed Code Inspection Model using Program Slicing Technique. Starts (Finished January 2020).
   - Nour Alabwaini. Thesis title: A Proposed Quality Model for e-Government Systems. Co-Supervisor. (Finished June 2020).
   - Hala Awawdeh. Thesis title: Proposing a quality model for the Internet of Things Applications in Smart Cities. (Finished June 2021).
   - Ala' Hammad. Thesis Title: A Quality Data Collection Framework for Big Data Systems. (Expected Feb 2022).

8. **Grants**

   - **January 2021 – July 2022 (50K $):** *The impact of using virtual reality and augmented reality techniques on the educational process and marketing - Al-Zaytoonah University of Jordan (case study).* Funded Project by Al-Zaytoonah University of Jordan.

   - **January 2020 – July 2021 (15K $):** *Hand veins recognition using multidirectional transform.* Funded Project by Al-Zaytoonah University of Jordan.

   - **April 2018 – October 2020 (10K $):** *A New Quality Model for Big Data Applications.* Funded Project by Al-Zaytoonah University of Jordan.

   - **July 2018 – July 2019 (75K $):** *Computing Virtualization: Development a green computing approach for Al-Zaytoonah University educational infrastructure.* Funded Project by Al-Zaytoonah University of Jordan.

   - **March 2016 – June 2017 (20K $):** *A novel approach for measuring Java language standards for educational purposes*. Funded Project by Al-Zaytoonah University of Jordan.

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- **June 2011:** *Durham Graduate School Grant for Event and Conferences***:** I have awarded a grant to organize a one day workshop in Durham University under the title: "*A Multidisciplinary Workshop for research students to share Experiences of Conducting a Systematic Review*".

9. Membership of Committees

- **2020 – Present:** Represent faculty of Science and IT in Al-Zaytoonah University Council, Al-Zaytoonah of Jordan.
- **2019 – Present:** ACM Amman SIGCHI Chapter Vice-Chair.
- **2019 – Present:** ACM SIGSOFT Professional Member.
- **2019 – Present:** Board Member - Jordan Computer Society (JCS).
- **2019 – Present:** Editor-in-chief for Al-Zaytoonah Newsletter, Al-Zaytoonah University of Jordan.
- **2019 – Present:** Al-Zaytoonah University Marketing Committee Member, Al-Zaytoonah of Jordan.
- **2019 – Present:** Media and Marketing Committee Director, Faculty of Science and IT, Al-Zaytoonah of Jordan.
- **2018 – Present**: Higher Committee Member, Information Technology Students Activity Fair (ITSAF), http://lms.uop.edu.jo/itsaf/.
- **2015 – Present**: Activities Committee Rapporteur Faculty of Science and IT, Al-Zaytoonah of Jordan.
- **2018 – 2019**: member of Media and Marketing committee, Faculty of Science and IT, Al-Zaytoonah of Jordan.
- **2018 – 2022:** Computer Centre Council member, Al-Zaytoonah of Jordan.

10. Professional and Scientific Meetings

- Editor in International Journal of Software Engineering and Applications, ERA listed.
- Served as a member of the Technical Committee of the biannual International Conference on Information Technology, at Al-Zaytoonah University, Amman, Jordan, since 2012.
- Served as a member of the Technical Committee of the International Conference on Computing, Mathematics and Engineering Technologies (iCoMET) since 2018.
- Served as a member of the PC members of the International Conference on Frontiers of Information Technology (FIT) since 2015. IEEE conference.
- Served as a member of the Technical Committee of the International Conference on Software Engineering Advances (ICSEA) since 2012.
- Served as a member of the PC members of the International Conference on Emerging Technologies (ICET) 2014. IEEE conference.

For the above conferences, helped supervise and organize some activities, evaluated papers for meeting conference conditions, refereed several papers, and chaired some sessions.

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11. <u>Participation in or organization of curricular and/or extra-curricular activities</u>

- **Marketing Campaign Management**, Amman Chamber of Commerce, *October 2018.*

- **E-Marketing**, Counselling and Community Services Centre, Al-Zaytoonah University of Jordan, *February 2018.*

- **E-Marketing**, Edraak for online courses, *December 2017.*

- **LDRA test suites tools**, LDRA Company, Liverpool, UK. *October 2016.*

- **Exams Write, Analysis and Evaluate**, Quality Assurance Department, Al-Zaytoonah University of Jordan. *February 2016.*

- **Human Resources Course**, Counselling and Community Services Centre, Al-Zaytoonah University of Jordan. *June – July 2015.*

- **Arduino Microcontroller Course**, Al-Baheth Centre, Amman, Jordan, *June – July 2013.*

- **Collaborative Researcher**. Vitae organization, Durham, UK. *June 2012.*

- **Leadership in Action**. Vitae organization, Leeds, UK. *November 2011.*

- **DULTA** (*Durham Learning and Teaching Award*) certificate. Durham University, Durham, UK. *June – October 2011.*

- **Durham Entrepreneurship**. Durham University, Durham, UK. *June 2010.*

- **How to be effective researcher**, Sunderland University, Sunderland, UK. *May 2010.*

- **Communication Skills and More**. Durham University, Durham, UK. *September 2009.*

- **Teaching Induction for postgraduates engaged in teaching and supporting learning**. Durham University, Durham, UK. *November 2008.*

I also attended many different training courses in different aspects (research skills, business skills, organizing events… etc.) provided by Durham University, UK research office, and other Universities.

12. <u>Publications</u>

- **Book Chapters:**

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1. Abdelfatah Tamimi, Ayman Abdalla, and **Mohammad Abdallah, 2021.** _Utilizing Quality Measures in Evaluating Image Encryption Methods._ Advances in Computer Vision and Computational Biology. Springer.

- **Journals:**

1. Ahmad Althunibat, **Mohammad Abdallah**, Mohammed Amin Almaiah, Thamer Ahmed Alrawashdeh, Nour Alabwaini. **2021**. An Acceptance Model of Using Mobile-Government Services (AMGS). Computer Modeling in Engineering and Sciences (CMES). ACCEPTED. Web of Science (IF = 0.669) and SCOPUS indexed.

2. **Mohammad Abdallah**, Mustafa Alrifaee. **2021**. A Heuristic Tool for Measuring Software Quality Using Program Language Standards. The International Arab Journal of Information Technology (IAJIT). ACCEPTED. Web of Science (IF = 0.669) and SCOPUS indexed.

3. **Mohammad Abdallah,** Mohammad Muhairat, Ahmad Althunibat, Ayman Abdallah, **2020**. Big Data Quality: Factors, Frameworks and Challenges. An International Journal of Advanced Computer Technology (CompuSoft). Vol 9 No. 8. SCOPUS indexed.

4. Rana Badr, Basem Alukosh, **Mohammad Abdallah**, Khalil Awad, Amir Ngah, **2020**, A proposed Java Forward Slicing Approach. TELKOMNIKA (Telecommunication, Computing, Electronics and Control). Vol. 18 No. 1. SCOPUS indexed.

5. Mohammad Muhairat, **Mohammad Abdallah**, Ahmad Althunibat, **2019**. Cloud Computing in Higher Educational Institutions. An International Journal of Advanced Computer Technology (CompuSoft). Vol 8 No. 12. SCOPUS indexed.

6. Hussam Hourani, Raneem Dawood, Lana Sandoqa, **Mohammad Abdallah,** Abdelfatah Tamimi. **2019**. A Proposed Cloud Computing Quality Model: S3MQual (Service Measurement Metrics Model). ICIC Express Letters. Vol. 13 No. 11 SCOPUS indexed.

7. Hussam Hourani, **Mohammad Abdallah,** Abdelfatah Tamimi. **2019**. 7e: A Proposed Change Management Model Integrated With Software Development Lifecycle. ICIC Express Letters. Vol. 13 No. 10 SCOPUS indexed.

8. Khalil Awad, **Mohammad Abdallah,** Abdelfatah Tamimi, Amir Ngah, Hanadi Tamimi. **2019**. A proposed forward clause slicing application. Indonesian Journal of Electrical Engineering and Computer Science. Vol. 13 No. 1. SCOPUS indexed.

9. Basem Alokush, **Mohammad Abdallah**, Mustafa Alrefaee, Mosa Salah. **2018**. A Proposed Java Static Slicing Approach, Indonesian Journal of Electrical Engineering and Computer Science. Vol. 11 No. 1. SCOPUS indexed.

10. **Mohammad Abdallah**, Mustafa Alrifaee. **2018**. Towards a new framework of program quality measurement based on programming language standards, International Journal of Engineering & Technology. Vol. 7 No. 2.3. SCOPUS indexed.

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11. Amir Ngah, Malcolm Munro, **Mohammad Abdallah**. **2017**. An Overview of Regression Testing, Journal of Telecommunication, Electronic and Computer Engineering (JTEC). Vol 9, No. 3-5 p 45-49. SCOPUS indexed.

12. **Mohammad Abdallah**, Mustafa Alrifaee. **2017.** Java Standards: A Comparative Study, International Journal of Computer Science and Software Engineering (IJCSSE), Volume 6, Issue 6 p 146-151. ProQuest indexed.

13. Mustafa Alrifaee, **Mohammad Abdallah**, Basem Alokush. **2017**. A Short Survey of Iris Images Databases. International Journal of Multimedia and its Applications (IJMA). Vol. 9 No. 2 ERA listed.

14. Ayman Abdallah, **Mohammad Abdallah**, Mosa Salah. **2017**. A Brief Survey of Program Robustness. International Journal of Software Engineering and Applications (IJSEA). Vol. 8 No.1 p. 1-10 ERA listed.

15. **Mohammad Abdallah**, Hanadi Tamimi. **2016**. Clauser: Clause Slicing Tool for C Programs. International Journal of Software Engineering and its Application (IJSIEA). Vol. 10 No. 3 p.49-56 SCOPUS indexed.

- **Conferences:**

1. **Mohammad Abdallah**, Khalid Mohammad Jaber, Mousa Salah, Mohammad Abdul Jawad, Naji AlQbailat, Ayman Abdalla. **2021**. *An E-learning Portal Quality Model: from Al-Zaytoonah University Students' Perspective.* International Conference of Information Technology (ICIT 2021) IEEE conference, Amman-Jordan. IEEE conference and SCOPUS indexed.

2. Wael Alzyadat, Aysh AlHroob, Ikhlas Hassan Almukahel, Mohammad Muhairat, **Mohammad Abdallah**, Ahmad Althunibat. **2021**. *Big Data, Classification, Clustering and Generate Rules: An inevitably intertwined for Prediction.* International Conference of Information Technology (ICIT 2021) IEEE conference, Amman-Jordan. IEEE conference and SCOPUS indexed.

3. Daniel Staegemann, Matthias Volk, Erik Lautenschläger, Matthias Pohl, **Mohammad Abdallah**, Klaus Turowsk. **2021**. *Towards a Data Collection Quality Model for Big Data Applications.* International Conference of Information Technology (ICIT 2021) IEEE conference, Amman-Jordan. IEEE conference and SCOPUS indexed.

4. **Mohammad Abdallah**, Alaa Hammad, Wael Al-Zyadat. **2021**. *Towards a Data Collection Quality Model for Big Data Applications.* 1st Workshop on Digitization in the Flux of Big Data Scenarios (DigBD 2021). June 14 – 17, 2021. Online.

5. Staegemann, D., Volk, M., Pohl, M., Häusler, R., Nahhas, A., **Abdallah, M.**, Turowski, K., **2021.** *A Preliminary Overview of the Situation in Big Data Testing.* Proceedings of the 6th International Conference on Internet of Things, Big Data, and Security - IoTBDS. April 23 – 25, 2021. Online.

6. Staegemann, D., Volk, M., Saxena, A., Pohl, M., Nahhas, A., Häusler, R., **Abdallah, M.**, Bosse, S., Jamous, N., Turowski, K., **2021.** *Challenges in Data Acquisition and Management in Big Data Environments.* Proceedings of the 6th International Conference on Internet of Things, Big Data, and Security - IoTBDS. April 23 – 25, 2021. Online.

7. Tamara Jabr, **Mohammad Abdallah**, Ahmad Althunibat. **2020.** *A Proposed Code Inspection Model using Program Slicing Technique.* ICCCA 2020 - 5th IEEE International Conference on Computing, Communication and Automation. October 30 – 31, 2020. Online.

8. Daniel Staegemann, Matthias Volk, Abdulrahman Nahhas, **Mohammad Abdallah**, Klaus Turowski, **2019**. *Exploring the Specificities and Challenges of Testing Big Data Systems.* The 15th International Conference on SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS. Sorrento, Italy.

9. **Mohammad Abdallah,** Ayman Abdalla, **2019**. *Using Clause Slicing as Program Robustness Measurement Technique.* 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT). Amman, Jordan. IEEE Conference and SCOPUS indexed.

10. **Mohammad Abdallah**, Tamara Jaber, Nour Alabwaini, Alaa Abd Alnabi, **2019**. *A Proposed Quality Model for the Internet of Things Systems.* 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT). Amman, Jordan. IEEE Conference and SCOPUS indexed.

11. **Mohammad Abdallah**. **2019**. Big Data Quality Challenges. The Second International Conference on Big Data and Computational Intelligence (ICBDCI'19). Mont Choisy- Mauritius. IEEE Conference and SCOPUS indexed.

12. Hussam Hourani, **Mohammad Abdallah**. **2018**. Cloud Computing: Legal and Security Issues. 8th International Conference on Computer Science and Information Technology (CSIT 2018). Amman-Jordan IEEE conference and SCOPUS indexed.

13. Nour AlAbwaini, Amal Alda`aje, Tamara Jaber, **Mohammad Abdallah**, Abdelfatah Tamimi. **2018**. Using Program Slicing to Detect the Dead Code, 8th International Conference on Computer Science and Information Technology (CSIT 2018). Amman-Jordan IEEE conference and SCOPUS indexed.

14. **Mohammad Abdallah**, Basem Alokush, Mustafa Alrefaee, Mosa Salah, Rana Badr, Khalil Awad. **2017**. JavaBST: Java Backward Slicing Tool. International Conference of Information Technology (ICIT 2017) IEEE conference, Amman-Jordan. IEEE conference and SCOPUS indexed.

15. **Mohammad Abdallah**, M. Munro, and K. Gallagher. **2011**. A Static Robustness Grid Using MISRA C2 Language Rules. The Sixth International Conference on Software Engineering Advances (ICSEA 2011) in Barcelona, Spain.

16. **Mohammad Abdallah**, M. Munro, and K. Gallagher. **2010**. Certifying Program Robustness Using Program Slicing. 26th IEEE international conference on software engineering (ICSM 2010) in Timisoara, Romania. SCOPUS indexed.