

CURRICULUM VITAE

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1. Personal Data

Date of Birth: 14/2/1972
Nationality: Jordanian

2. Education

- Ph.D. (Engineering Sciences/Computerized Control Systems and Progressive Information Technology) 2002, Kharkov National University of Radio Electronics, Kharkov, Kharkov, Ukraine.
- M.Sc. (Computer Engineering/ Computers, Intellect Systems and Networks) 1997, Kharkov State Technical University of Radio Electronics, Kharkov, Kharkov, Ukraine
- B.Sc. (Computer Engineering/ Computers, Intellect Systems and Networks) 1997, Kharkov State Technical University of Radio Electronics, Kharkov, Kharkov, Ukraine

3. Ph.D. Dissertation

- *Models, Algorithms and Technology of Distributed Database Development for Information Managing Systems, Kharkov National University of Radio Electronics, Kharkov, Kharkov, Ukraine.*



4. Employment

Academic Positions

- Associate Professor, Software Engineering Department, Al Zaytoonah University of Jordan, Amman, Jordan -July 18, 2011 – Present
- Assistant Professor, Software Engineering Department, Al Zaytoonah University of Jordan, Amman, Jordan - September 15, 2002 – July 18,2011

Administrative Positions

- Deputy Dean, Faculty of Science and Information Technology, Al Zaytoonah University of Jordan, Amman, Jordan – October 1,2019- 2020.
- Deputy Dean, Deanship of Scientific Research and Graduate Studies , Al Zaytoonah University of Jordan, Amman, Jordan – October 1,2015- October 1,2018.
- Deputy Dean, Faculty of Science and Information Technology, Al Zaytoonah University of Jordan, Amman, Jordan – October 1,2013- October 1,2015.
- Chairman of Software Engineering Department , Faculty of Science and Information Technology, Al Zaytoonah University of Jordan, Amman, Jordan – October 1,2005- October 1,2015.

5. Research Interests

- Software Engineering, Big Data Engineering

6. Teaching Experience

• *Graduate Courses*

- Advanced Software Development

• *Undergraduate Courses*

- Computer Skills
- Programming languages (Visual basic, Pascal, C++);
- Object Oriented Programming Languages (Java, VB.Net, C#)
- Data Structure;
- Algorithms;
- Computer Networks;
- Software Engineering;
- Software Requirements and Design;



- System Analysis and Design;
- Object Oriented System Analysis and Design;
- Case Tools (Rational Rose);
- Database;
- Advanced Database;
- Distributed and parallel Systems;
- E-Commerce applications;
- Web design and programming (HTML, ASP.Net, JSP & Servlet, JSF);
- Information Technology;
- Graduation Projects;
- Selected Topics in Software Engineering;

7. Supervision of Graduate Research

1. Supervisor for Master student (Ayat Mashal Almanaseer), "Propose Model for Elicitation Nonfunctional Requirements in Agile Methods", Al-Zaytoonah University of Jordan, Jordan, 2022.
2. Supervisor for Master student (Hamza Talep Al-Kfaween), "Using AI approach and big data architecture to enhance heart disease diagnosis", Al-Zaytoonah University of Jordan, Jordan, 2022.
3. Supervisor for Master student (Mutaz Al Mherat), "A new technique to transform users' requirements (Stories) into UML models", Al-Zaytoonah University of Jordan, Jordan, 2020.
4. Supervisor for Master student (Abeer Al Sabagh), "A new approach to generate web services models from distributed user requirements", Al-Zaytoonah University of Jordan, Jordan, 2019.

8. Grants

- Developing a Reverse Engineering Approach to Generate UML Models from GUI of Web Applications for Funded Research Projects at ZUJ, 2014, Al Zytoonah University of Jordan, 16620 JD.
- Software Development for Solving University Course Timetabling Problem Using Evolutionary Algorithms: Case Study at Al-Zaytoonah University of Jordan, 2015, Al Zytoonah University of Jordan, 15550 JD.
- Computing Virtualization: Development of a Green Computing Approach for Al-Azytoonah University of Jordan Educational Infrastructure, 2018, Al Zytoonah University of Jordan, 52390 JD.
- A New Quality Model for Measuring Big Data Applications, 2019, Al Zytoonah University of Jordan, 7168 JD.



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- Development of New Big Data Model for Decision Making (Case Study- Drugs Chemical Structure), 2020, Al Zaytoonah University of Jordan, 5500 JD.

9. Membership of Committees

- **National and International**
 - Jordan Computer Society
 - Jordanian Engineering Association
- **University**
 - QS Committee (University Committee)
 - Green Metrix Committee (University Committee)
 - Graduation Studies Committee (Deanship of Scientific Research and Graduation Studies)
 - Scientific Research Committee (Deanship of Scientific Research and Graduation Studies)
 - Scientific Research Committee (Faculty of Science and Information Technology)
 - Computing and E-learning Committee (Faculty of Science and Information Technology)
 - Faculty of Science and Information Technology Representative in the University Council
 - Study Plan and Educational Resources Committee (Software Engineering Department)
 - Graduation Studies Committee (Software Engineering Department)

10. Professional and Scientific Meetings

- **Scientific Meetings Organized**
 - General Co-Chair in the 8th International Conference on Information Technology - ICIT'2017 – Al Zaytoonah University – Jordan, May 2017.
 - International Program Committee in the 7th International Conference on Information Technology - ICIT'2015 – Al Zaytoonah University – Jordan, May 2015.
 - Organization Committee in the 6th International Conference on Information Technology - ICIT'2013 – Al Zaytoonah University – Jordan, May 2013.
 - Organization Committee in the 5th International Conference on Information Technology - ICIT'2011 – Al Zaytoonah University – Jordan, May 2011.
 - Organization Committee in the 4th International Conference on Information Technology - ICIT'2009 – Al Zaytoonah University – Jordan, May 2009.



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- **Participation in Scientific meetings**
 - The 8th International Conference on Information Technology - ICIT'2017 – Al Zaytoonah University – Jordan, May 2017.
 - The 7th International Conference on Information Technology - ICIT'2015 – Al Zaytoonah University – Jordan, May 2015.
 - The 6th International Conference on Information Technology - ICIT'2013 – Al Zaytoonah University – Jordan, May 2013.
 - The 5th International Conference on Information Technology - ICIT'2011 – Al Zaytoonah University – Jordan, May 2011.
 - The 4th International Conference on Information Technology - ICIT'2009 – Al Zaytoonah University – Jordan, May 2009.

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

- **Curricular Activates**
 - Data Engineering Master Course, Online Course, 2020.
 - Mobile Application Development Using Flutter Framework, Online Course, 2019.
 - Web Development Using ASP MVC, Online Course, 2018.
 - Java programming language (JSE) / JDeveloper, Al Zaytoonah University, 2010.
 - Java EE and Web Application (J2EE) / JDeveloper, Al Zaytoonah University, 2010.
 - Oracle ADF Technology / JDeveloper, Al Zaytoonah University, 2010.
 - SQL programming Al Zaytoonah University, 2010.
 - Rational Unified Process (RUP) & UML Using Rational Tools, Al Zaytoonah University, 2007.
 - Rational Automated Testing Tools-Robot, Al Zaytoonah University, 2007.
 - Developing Windows Applications and Web using ASP.Net, C#.Net and ADO.Net, Al Zaytoonah University, 2005.
- **Extra-Curricular Activities**
 - The Day of Graduate Student, Al Zaytoonah University, 2013.
 - Extracurricular Activities Committee, Al Zaytoonah University, 2007-2011.

12. Publications

- **Papers in refereed journals**
 - Wael Alzyadat, **Mohammad Muhairat**, Aysh Alhroob, and Thamer Rawashdeh , A Recruitment Big Data Approach to interplay of the Target Drugs. Int. J. Advance Soft Compu. Appl., Vol. 14, No. 3, 2022.



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- A Althunibat, W Alzyadat, **M Muhairat**, A Alhroob. An Approach to Acquire the Constraints Using Panel Big Data Hybrid Association Rule and Discretization Process for Breast Cancer Prediction. Journal of Healthcare Engineering 2021.
- W Alzyadat, A AlHroob, IH Almukahel, **M Muhairat**. Big Data, Classification, Clustering and Generate Rules: An inevitably intertwined for Prediction, 2021 International Conference on Information Technology (ICIT).
- **Mohammad Muhairat**, Shadi ALZu'bi, Bilal Hawashin, Mohammad Elbes and Mahmoud Al-Ayyoub, "An Intelligent Recommender System Based on Association Rule Analysis for Requirement Engineering", Journal of Universal Computer Science, Volume No.26, Issue No.1, Year 2020, Pages 33-49.
- **Mohammad Muhairat**, Mohammad Abdallah, Ahmad Althunibat, "Cloud Computing in Higher Educational Institutions", COMPUSOFT, An international journal of advanced computer technology, Volume No. VIII, Issue No. XII, Year 2019, Pages 3507-3517.
- Zina Houhamdi, Belkacem Athamena, Rani Abuzaineddin, **Mohammad Muhairat**, "A Multi-Agent System for Course Timetable Generation", TEM Journal. Volume No. 8, Issue No. 1, Year 2019, Pages 211-221.
- **Mohammad I. Muhairat**, Akram Abdelqader, Mohammad Al Rawajbeh; "A Novel Approach To Generate Distributed Global and Local Use Cases: A New Notation", Journal of Theoretical and Applied Information Technology, Volume No.91. Issue No.1, Year 2016, Pages 1-11.
- Ahmad Althunibat and **Mohammad I. Muhairat**, "User Requirements Model for University Timetable Management System", International Journal of Software Engineering & Applications, Volume No.7, Issue No.3, Year 2016, Pages 1-9.
- **Mohammad I. Muhairat** and Akram AbdelQader, "A Mathematical Model to Verify a Reverse Engineering Approach Which Convert Form Fill Format into UML Class Diagram", International Journal of Software Engineering and Its Applications, Volume No.10, Issue No.5, Pages 45-60, Year 2016.
- **Mohammad I. Muhairat** and Akram Abdel Qader, "A New Reverse Engineering Approach to Convert Form Fill Format Document into UML Class Diagram", International Journal of Software Engineering & Applications (IJSEA), Volume No.5, Issue No.6, Pages 75-86, Year 2014.
- Ahmad Althunibat, Thamer A. Alrawashdeh and **Mohammad Muhairat**, "The Acceptance of Using M-Government Services in Jordan", Journal of Theoretical and Applied Information Technology, Volume No.63, Issue No.3, Pages 733-740, Year 2014.
- Thamer A. Alrawashdeh, **Mohammad Muhairat** and Ahmad Althunibat, "Evaluating the Quality of Software in ERP Systems Using the ISO 9126 Model", International Journal of Ambient Systems and Applications, Volume.1, Issue No.1, Pages 1-9, Year 2013.
- Thamer A. Alrawashdeh, **Mohammad I. Muhairat** and Sokyna M. Alqatawnah, "Factors Affecting Acceptance of Web-Based Training System: Using Extended UTAUT and Structural Equation Modeling", International



- Journal of Computer Science, Engineering and Information Technology, Volume No.2, Issue No.2, Pages 45-54, Year 2012.
- **Mohammad I. Muhairat**, Rafa E. Al-Qutaish, Belkacem Athamena, "From Graphical User Interface to Domain Class Diagram: A Reverse Engineering Approach", Journal of Theoretical and Applied Information Technology, Volume No.1, Issue No.2, Pages 28-40, Year 2011.
 - **Muhairat Mohammad**; Saleh Aldaajeh and Rafa E. Al-Qutaish, "The Impact of Global Software Development Factors on Effort Estimation Methods", European Journal of Scientific Research, Volume No.46, Issue No.2, Pages 221-232, Year 2010.
 - **Mohammad I. Muhairat**, Rafa E. Al-Qutaish and Akram A. Abdelqader, "UML Diagrams Generator: A New Case Tool to Construct the Use-Case and Class Diagrams from an Event Table", Journal of Computer Science, Volume No.6, Issue No.3, Pages 253-260, Year 2010.
 - Basil Al-Kasasbeh; Rafa Al-Qutaish and **Mohammad Muhairat**; "Innovative Algorithms for the Header Processing Transition from IPv4 to IPv6 and Vice Versa", The International Arab Journal of Information Technology, Volume No. 7, Issue No. 3, Pages 280-289, Year 2010.
 - Muzhir SH. Al-Ani; Basil M. Al-Kasasbeh, Rafa E. Al-Qutaish and **Mohammad I. Muhairat**, "Constructing a New Communication System by Integrating the GSM to the Satellites Infrastructure", WSEAS Transactions on Communications, Volume No. 8, Issue No. 2, Pages 217-226, Year 2009.
 - Ahmad H. Omari; Basil M. Al-Kasasbeh; Rafa E. Al-Qutaish and **Mohammad I. Muhairat**; "DEA-RTA: A Dynamic Encryption Algorithm for the Real-Time Applications", International Journal of Computers, Volume No. 3, Issue No. 1, Pages 191-199, Year 2009.
 - Belkacem Athamena; Zina Houhamdi and **Mohammed Muhairat**, "Fault Detection and Isolation in Dynamic Systems using Statistical Local Approach and Hybrid Least Squares Algorithm", American Journal of Applied Sciences Volume No.4, Issue No.12, Pages 977-986, Year 2007.
- Conference Presentations
 - Thamer A. Al-Rawashdeh, **Mohammad I. Muhairat**, Sokyna M. Al-Qatawnah "A Quantitative Evaluation of ERP Systems Quality Model", 11th International Conference on Information Technology: New Generations (ITNG), Pages 225-232, Year 2014.
 - Althunibat, A.; Alrawashdeh, T.A.; **Muhairat, M**, "The Acceptance of Using M-government Services in Jordan" ,11th International Conference on Information Technology: New Generations (ITNG), Pages 643,644, Year 2014.
 - **Mohammad I. Muhairat** and Rafa, E. Al-Qutaish, "An Approach to Derive the Use Case Diagrams from an Event Table", in proceedings of the 8th WSEAS



International Conference on Software Engineering, Parallel and Distributed Systems - (SEPADS'09) Pages 33-37, Year 2009.

- Rafa E. Al-Qutaish, **Mohammad I. Muhairat**, and Basil M. Al-Kasasbeh, "The Analytical Hierarchy Process as a tool to Select Open Source Software", in proceedings of the 8th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems - (SEPADS'09), Pages 39-44, Year 2009.
- Basil M. Al-Kasasbeh; Rafa E. Al-Qutaish and **Mohammad I. Muhairat**, "Utilizing Satellite Systems for Mobile Communications: An Emerging Approach", in Proceedings of the 8th International Conference on Electronics, Hardware, Wireless and Optical Communications (EHAC'09), Pages 39-44, Year 2009.
- Khaled M. Mustafa; Rafa E. Al-Qutaish and **Muhairat Mohammad**, "Classification of Software Testing Tools Based on the Software Testing Methods", the 2nd International conference on Computer and Electrical Engineering (ICCEE'09), Pages 229-233, Year 2009.
- Ahmad H. Al-Omari; Basil M. Al-Kasasbeh; Rafa E. Al-Qutaish and **Mohammad I. Muhairat**, "A New Cryptographic Algorithm for the Real Time Software Applications", in proceedings of the 7th WSEAS International Conference on Information Security and Privacy - (ISP'08), Pages 33-38, Year 2008.