

CURRICULUM VITAE

Personal Information

Name: Mohammad I.A. Muhairat
Nationality: Jordanian
Place and Date of Birth: Jordan – Amman, 1972.
Marital Status: Married
Languages: Arabic, English and Russian.
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Qualification

1. Ph.D. degree in Computer Science and Engineering 2002
Kharkov National University of Radio Electronics, Kharkov, Ukraine;
Thesis Title: Models, Algorithms and Technology of Distributed
Database Development for Information Managing
Systems
2. Master and Bachelor degrees in Computer System Engineering 1997
Kharkov State Technical University of Radio Electronics, Kharkov,
Ukraine
Specialization: Computers, Intellect Systems and Networks
3. 1990 General Secondary Certificate, Amman, Jordan.

Professional and Teaching Experience

1. 2018 to present, Associate Professor at Software Engineering
Department, Faculty of Science and Information Technology, Al-
Zaytoonah University, Amman, Jordan;
2. 2015 to 2018, Associate Professor and Deputy Dean of scientific
research and graduate studies, Al- Zaytoonah University, Amman,
Jordan;
3. 2013 to 2015, Associate Professor, Deputy Dean and a head of Software
Engineering Department, Faculty of Science and Information
Technology, Al- Zaytoonah University, Amman, Jordan;

4. 2011 to 2013 Associate Professor and a head of Software Engineering Department, Faculty of Science and Information Technology, Al-Zaytoonah University, Amman, Jordan;
5. 2005 to 2011 Assistant Professor and a head of Software Engineering Department, Faculty of Science and Information Technology, Al-Zaytoonah University, Amman, Jordan;
6. 2002 to 2005 Assistant Professor at Computer Science Department, Faculty of Science and Information Technology, Al-Zaytoonah University, Amman, Jordan;
7. 1998 -2001 Scientific researcher in Information Systems: "research laboratory at Kharkov National University of Radio Electronics".

Taught Courses

- **Undergraduate Courses**

1. Computer Skills
2. Discrete Math;
3. Logic Design;
4. Computer Organization and Architecture;
5. Operating System;
6. Programming languages (Visual basic, Pascal, C++);
7. Object Oriented Programming Languages (Java, VB.Net, C#)
8. Data Structure;
9. Algorithms;
10. Computer Networks;
11. Software Engineering;
12. Software Requirements and Design;
13. Software Verification and validation;
14. System Analysis and Design;
15. Object Oriented System Analysis and Design;
16. Case Tools (Rational Rose);
17. Database;
18. Advanced Database;
19. Database Management Systems (Access, Oracle, Oracle ADF);
20. Distributed and parallel Systems;
21. E-Commerce applications;
22. Project Management;
23. Web design and programming (HTML, ASP.Net, JSP & Servlet, JSF);
24. Information Technology;
25. Graduation Projects;
26. Selected Topics in Software Engineering;

- **Graduate Courses**

1. Object Oriented System Analysis & Design using UML;
2. Formal Methods "Petri Net";

Research Interest

1. Software Engineering (Requirements Engineering, Software Design, Development Processes and Reverse Engineering, Quality Assurance).
2. Database Systems;

Publications

- **Journals:**

1. 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, Submitted 2021.
2. Ahmad Althunibat , Wael Alzyadat, Mohammad Muhairat, Aysh Alhroob and Ikhlas H. Almukahel, "An Approach to Acquire the Constraints Using Panel Big Data Hybrid Association Rule and Discretization Process for Breast Cancer Prediction", Journal of Healthcare Engineering. Article, Vol. 2021, ID 3870147, 9 pages, 2021. <https://doi.org/10.1155/2021/3870147>
3. Zina Houhamdi, Belkacem Athamena, Rani Abuzaineddin, **Mohammad Muhairat;**" A Multi-Agent System for Course Timetable Generation"; TEM Journal. Volume 8, Issue 1, Pages 211-221, ISSN 2217-8309, DOI: 10.18421/TEM81-30, February 2019.
4. **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; 15th September 2016. Vol.91. No.1.
5. Mohammad Al Rawajbeh, Vladimir Sayenko and **Mohammad I. Muhairat**, "SIMPLIFIED CBA CONCEPT AND EXPRESS CHOICE METHOD FOR INTEGRATED NETWORK MANAGEMENT SYSTEM", International Journal of Computer Networks & Communications, Vol.8, No.3, May 2016.
6. Ahmad Althunibat and **Mohammad I. Muhairat**, "USER REQUIREMENTS MODEL FOR UNIVERSITY TIMETABLE MANAGEMENT SYSTEM", International Journal of Software Engineering & Applications (IJSEA), Vol.7, No.3, 2016.
7. **Mohammad I. Muhairat** And Akram Abdel Qader, "A Mathematical Model to Verify a Reverse Engineering Approach Which Convert Form Fill Format into UML Class Diagram ", International Journal of Software Engineering & Its Applications, Vol 10, No. 5, 2016.

8. **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), Vol.5, No.6, November 2014.
9. Ahmad Althunibat, Thamer A. Alrawashdeh And **Mohammad Muhairat**. THE ACCEPTANCE OF USING M-GOVERNMENT SERVICES IN JORDAN, Journal of Theoretical and Applied Information Technology 31st May 2014. Vol. 63 No.3
10. Thamer A. Alrawashdeh, **Mohammad I. Muhairat** and Ahmad M. Althunibat. (2013). **A Software Quality Model of ERP System in Higher Education Institutions**. *European Journal of Scientific Research (EJSR)*, Vol. 99 Issue 1.
11. 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 (IJCEIT), Vol.2, No.2, April **2012**.
12. **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, Vol. 24, No.1, pp 28-40, **2011**.
13. **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, Vol.46 No.2, pp 221-232, **2010**. (ISSN: 1450-216X)
14. **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*, Vol.6 No.3, pp 253-260, **2010**. (ISSN: 1549-3636)
15. 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*, Vol. 7, No. 3, July **2010**. (ISSN: 1683-3198)
16. 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*, Vol. 8, No. 2, **2009**, pp217-226. (ISSN: 1109-2742)
17. 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*, Vol. 3, No. 1, **2009**, pp. 191-199. (ISSN: 1998-4480)

18. Belkacem Athamena; Zina Houhamdi and **Mohammed Muhairat**; "**Fault Detection and Isolation in Dynamic Systems using Statistical Local Approach and Hybrid Least Squares Algorithm**". Vol (4), No (12), pp: 977-986, *American Journal of Applied Sciences*. **2007**.

- **Conferences:**

1. Wael Alzyadat, Aysh AlHroob, Ikhlas Hassan Almukahel, Mohammad Muhairat, Mohammad Abdallah, Ahmad Althunibat," Big Data, Classification, Clustering and Generate Rules: An inevitably intertwined for Prediction", *International Conference on Information Technology (ICIT)*, Pages 149-155, 2021(IEEE).
2. 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)*, 2014.(IEEE)
3. 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)*, 2014, vol., no., pp.643,644, 7-9 April 2014
4. **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)*, February 21-23, **2009**, University of Cambridge, Cambridge, UK.
5. 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)*, February 21-23, **2009**, University of Cambridge, Cambridge, UK.
6. 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)*, February 21-23, University of Cambridge, Cambridge, UK, **2009**, pp. 39-44. (ISBN: 978-960-474-053-6)
7. 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)*, Vol. 1, pp229-233, 28-30 Dec, **2009**. Dubai.

- 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)*, December 29-31, **2008**, Cairo, Egypt.

Thesis Publication & Conferences

- V.M levykin, MV. Yevlanov, **Mohammad Muhirat.**" **Conception of Construction of a Case – System for the Development of the Data Control Systems** "// ACS and automatics instruments -**2001**- Issue 114.P 55-59.
- G .F Krivula ,**Mohammad Muhairat** " **The Problems of DDB Design for Corporate Information System**" // Data control Systems for the railway transport – **2000**-No 4.P.9-12
- Mohammed Muhairat**, V.M Levyken V.N Borysenko " **Therory - & Category Modeling of the Processes of Computer - Aided design of the DDB, for corporate Information Controle Systems** " // ACS and automatics instrumatics - **2000** – Issue 111-p156-162>
- Mohammad Muhairat** , L.V Pavlenko , V.P Avramenko " **Heristice Programming of the Logical Structure of the DDB of the Corporate Information System** "// Vestink of the Khariv state Polytechnic University - **2000**- No 108- P 17- 26.
- Mohammad Muhairat** " **Vulnerability of the Information Systems in TCP / IP Stack** "/ Thesis of the paper for international conference " Theory and technique of data transfer , acquisition and Processing " (" New information technologies") –Kharkov: KhTUREture ,**2000**.P.17-19.

Examination Committee Member

Over 5 Master’s degree theses at different universities.

Research Projects Undertaken

No	Project Title
1	DEVELOPING A REVERSE ENGINEERING APPROACH TO GENERATE UML MODELS FROM GUI OF WEB APPLICATIONS FOR FUNDED RESEARCH PROJECTS AT ZUJ.
2	SOFTWARE DEVELOPMENT FOR SOLVING UNIVERSITY COURSE TIMETABLING PROBLEM USING EVOLUTIONARY ALGORITHMS(CASE STUDY- AUTOMATION OF COURSE TIMETABLING IN SCIENCE & IT FACULTY)

Professional Accomplishment

- Java programming language (JSE) / JDeveloper.

2. Java EE and Web Application (J2EE) / JDeveloper.
3. Oracle ADF Technology / JDeveloper.
4. SQL programming.
5. Rational Unified Process (RUP) & UML Using Rational Tools.
6. Rational Automated Testing Tools-Robot.
7. Developing Windows Applications and Web using ASP.Net, C#.Net and ADO.Net.

Professional References

Available upon request.