

## **Professor Mohammad Aref Alshraideh**

### QUALIFICATIONS

Dynamic, goal oriented Software Engineering and development professional extensive skills with PhD degree in computer science and over ٢٠ years of experience spanning software development life cycle. Proven analytical, problem solving and project management skills in demanding environment for national customers especially Army environment, Hospital Information System (HIS), University ERP. Strong team leader and cross-functional team contributor with excellent communication, presentation and interpersonal skills.



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Secondary e-mail: [mshridah@gmail.com](mailto:mshridah@gmail.com)

Mobile: 00962799505279.

#### **Home Page:**

[http://computer.ju.edu.jo/Lists/FacultyAcademicStaff/DispDept\\_Staff.aspx?ID=16&dept=Computer%20Science&deptName=Computer%20Science](http://computer.ju.edu.jo/Lists/FacultyAcademicStaff/DispDept_Staff.aspx?ID=16&dept=Computer%20Science&deptName=Computer%20Science)

**Home Page @ UJ:** <http://eacademic.ju.edu.jo/mshridah/default.aspx>

#### **Publications List:**

<http://eacademic.ju.edu.jo/mshridah/Lists/Published%20Research/AllItems.aspx>

#### **Google Scholar Citations:**

<https://scholar.google.com/citations?user=mIPbP5QAAAAJ&hl=en>

**ResearchGate Profile:** [https://www.researchgate.net/profile/Mohammad\\_Alshraideh](https://www.researchgate.net/profile/Mohammad_Alshraideh)

**ORCID:** <http://orcid.org/0000-0002-2724-9290>

**Researcher ID:** <http://www.researcherid.com/rid/C-8113-2015>

## PERSONAL INFORMATION

- **Nationality:** Jordanian.
- **Marital Status:** Married.
- **Number of Children:** Five.
- **Date of Birth:** January 8, 1966.
- **Place of Birth:** Irbed – Jordan.

## CURRENT POSITION

Professor at Computer Science Department. In addition working as **Dean of Graduate School & Registrar General** at the University of Jordan.

## EDUCATION

- **Ph.D.** – The University of Hull (UK), June 2007.  
Computer Science / Software Testing. Thesis' title: "Use of Program and Data-specific Heuristics for Automatic Software Test Data Generation".  
Advisor: Prof. Leonardo Bottaci.
- **Master of Science** – The University of Jordan, Amman, Jordan, January 2000. with **honor**, Computer Science/ Artificial Intelligent, Thesis' title : " Recognition of Handwritten Arabic Characters Via Neural Networks".  
Advisor: Prof. Ahmed Alshraih.
- **Diploma in System Engineering** (RDBM, Oracle) with **honor**. 1996, Royal Scientific Society, Amman, Jordan
- **Bachelor of Science** – Mu'tah University, Jordan, February 1988. **Computer Science** with **honor**.

## EMPLOYMENT & POSITIONS HELD

### Professional Experience

- 1- August 2017- Now: Dean of Graduate School at the University of Jordan.
- 2- November 2014 –Now: Registrar General at the University of Jordan.
- 3- June 2012 – November 2014: Director of Human Resources at the University of Jordan.
- 4- January 2008 – June 2012: Head Director Assistant for Computer Technology at the Hospital of the University of Jordan.

- 5- September 2007 – January 2008. Assistant Dean for Students Affairs at King Abdullah II for Information and Technology.
- 6- Feb 2003 –July 2004 King Abdullah II school for IT, Jordan University: Instructor.
- 7- August 97 – 2003 Royal Medical Service: Team leader, collaborates with 70 teammates developing Automated HMS (hospital Management Systems) software project.
- 8- June 1995 – June 1997 Jordan Army Forces - Amman, Jordan, Senior System Analysis:
  - Built the following systems using Designer 2000 ver1.5: checks receivable & payable system, account receivable & payable system, accounting Information system, military housing payments system, and a correspondence system.
  - Supervised two other DBA's as a senior Oracle DBA involved in the System design, data modeling, database design, construction and implementation.
  - Installed Oracle Database, Developer 2000 and Designer 2000 as well as built repository.
  - Performed database administration activities needed to manage the systems.
  - Responsible for logical and physical backup & recovery for Oracle7 Database.
  - Solved application performance issues and performed tuning tasks to improve system performance.
  - Performed Performance Monitoring and tuning. This includes database structure and instance parameters to maximize system performance.
  - Performed SQL review of development code to ensure best path selection by Oracle and optimal system performance.
  - Used Oracle Designer to document system functional requirements and created case diagram. Entity relationships, functional & data models were also created.
  - Generated system forms and reports using Designer 2000 generators.
  - Gave training on Designer 2000 and Developer 2000 for junior Oracle programmers.
  - Established Oracle user group and delivered technical presentations on Oracle technologies.
- 9- August 1993 -June 1995: Ministry of Public works – Amman, Jordan, IT Consultant and Team Leader
  - Supervised and managed the development of a bid and contractor tracking system for all public work requested by the Ministry. The system tracks the entire bid process from it is inception and requirements stage until it is award stage. The system also tracks all contractors and consultants and their classifications by the Ministry.
  - Directed and supervised the system development team in the use of application development tools, Relational Database Management Systems (RDBMS), Structured Query Language (SQL) and other computer analytical techniques to support the design and development of the system applications and databases.

- Performed daily database administration tasks in support of the system.
- Established a disaster recovery plan for the Oracle database systems. The plan covered all aspects of system failure and provided procedures for system recovery.
- Performed Performance Monitoring and tuning. This includes database structure and instance parameters to maximize system performance.
- Performed SQL review of development team code to ensure best path selection by Oracle and optimal system performance.
- Prepared bids and solicitations for the purchase of system hardware, software and networking equipments.
- Gave training on Oracle7 & Developer 2000 tools for other programmers on the team.
- Built statistical reports using Oracle Graphics 2 & Report 2.
- Migrated data from legacy systems into Oracle7 using Oracle SQL loader. Script and programs were written to extract data from the legacy database and populate text files that were later imported to Oracle.
- Produced training material and provided training to MOPW personnel.

10- June 1992 – August 1993, Jordan Armed Forces - Amman, Jordan, System analyst and Programmer.

- Developed inventory control and requisition system using Oracle6 Tools.
- Developed personnel system.
- Developed bid tracking system.
- Developed library indexing and searching system.
- Developed student scholarship and payment tracking system for OMAN embassy.
- Developed computer maintenance system.
- Provided training on Oracle 6 tools (SQL-Forms 3, SQL-Report Writer 1, RPT (Report Writer), SQL loader, Oracle export and import).

## RESEARCH INTERESTS

*Automated software testing and analysis, search-based software engineering, automated test generation, data analytics, optimization, information retrieval, Computer Algorithms, Genetic Algorithms, Artificial Intelligence, Data Mining, Robotics, Software Clustering, Machine learning and Big Data.*

## ACADEMIC EXPERIENCE

- **Professor**, Computer Science Department, The University of Jordan, March 15/2016.  
*Taught courses:*  
*Advance data database (Ph.D. Course), Artificial Intelligent (Ph.D. course), Temporal Database (Master course), Computational intelligent (master course), software Testing (master course) and programming languages, AI, Software Eng. Database, programming methodology, C++.*

- **Associate Professor**, Computer Science Department, The University of Jordan, July 20 / 2012 till March 15/2016.

***Taught courses:***

*Data Base (PhD course), Special & Computational intelligent (master course), software Testing (master course), Data base, software engineering, simulation, programming languages and data structure.*

- **Assistant Professor**, Computer Science Department, The University of Jordan, August 9, 2007 till July 2012.

***Taught courses:***

*Special & Temporal Database (Master course), Computational intelligent (master course), software Testing (master course), Data base, software engineering, simulation, programming languages and data structure, Object oriented language (Java).*

<b>REVIEWING AND EDITORIAL BOARD MEMBER ACTIVITIES</b>
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- i-manager's Journal on Software Engineering. (**Editor-in-Chief** since 2015).
- Applied Soft Computing, Netherlands.
- Journal of Basic and Applied Research international, USA.
- Journal of Experimental & Theoretical Artificial Intelligence (Taylor and Francis, United Kingdom).
- International Journal of Computers & Technology
- WSEAS Transactions on Systems and Control Journal.
- Parallel Algorithms and Applications – Taylor and Francis, United Kingdom.
- American Association for Science and Technology.
- Journal of Software Engineering and Applications (JSEA).
- Computational Intelligence Journal.
- International Journal of Information and Computer Security (IJICS)
- 16th International Conference on Neural Networks
- International conference ICCCS-2015.
- WSEAS Conferences.
- Technical Program Committee, Conference Committees - IEEE Xplore (ICMIRA 2013).
- Technical Committee Member, International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2009).
- Technical Committee Member, Conference on the Application of Digital Information and Web Technologies (ICADIWT)
- Technical Committee Member, International Conference on Integrated Intelligent Computing (ICIIC 2010).

- Technical Committee Member, International Arab Conference of e-Technology (IACe-T), (2008 – Present) . URL address: <http://www.iace-t.org/callforpaper.html>

#### ACADEMIC COMMITTEES MEMBERSHIP

- King Abdullah II Prize...
- Chairman of Student disciplinary committees of the year 2010 –now.
- Member of smart campus university committee.
- Member of marketing the university committee.
- Supervising the computerization in the National Center for Diabetes Endocrinology and Genetics
- Talal Abu-Ghazaleh (TAG) member.
- Committee for granting graduate students academic excellence in Jordanian universities at Scientific Research Support Fund.
- Member of the Strategic Plan Committee.
- Chairman of the audit committees of patients files for Ministry of Health.
- Member of the grievance of staff in the University of Jordan Hospital
- Member of the committee supervising the elections for the club University of Jordan in 2010 till now.
- Health Management Information System Evaluation Committee Member, Royal Medical Services, (January – April 2009).
- Technical Job Interview Committee Member, Jordan university hospital, 2008-2012.
- Technical Job Interview Committee member Jordan University, 2012- 2015.
- Member of the Scientific Research, Conferences, Seminars, and Expositions
- Committee at JUH.
  - Member of the Higher Studies Committee.
  - Member of the Quality Assurance Committee.
  - Member of the Graduation Projects Committee.
  - Member of the Training Committee.
- **The University of Jordan, King Abdullah II School for Information Technology, (2007 – Present):**
  - Member of the Strategic Plan Committee.
  - Member of the Scientific Research, Conferences, Seminars, and Expositions Committee.
  - Member of the Curriculum Planning Committee.
  - Member of the e-Learning Committee.
  - Member of the Examinations and Quality Assurance Committee.
  - Member of the Accreditation Committee.
  - Member of ;2the Qualifying Examination for PhD Students Committee.
  - Member of the Activities and Awards Committee.
  - Member of the Broadcasting Committee.
  - Member of the I-Lab Committee.

- **The University of Jordan, Computer Science Department, (2007 – Present):**
  - Member of the Higher Studies Committee.
  - Member of the Appointment and Promotion Committee.
  - Member of the Ph.D. Program Committee.
  - Member of the Ph.D. Examinations Committee.
  - Member of the Curriculum Planning Committee.
  - Member of the Seminars and Expositions Committee.
  - Member of the Quality Assurance Committee.
  - Member of the M.Sc. Theses Examination Committees.
  - Member of the Graduation Projects Committee.
  - Member of the Training Committee.
  - Member of the Work Plan Committee.
  - Member of the Students Union Elections Supervision Committee.

<b>GRADUATE STUDENTS SUPERVISION</b>
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**Supervised the following Ph.D. Theses:**

1. Azam Nsour. Enhancing information retrieval for spatial data using R-tree and its variations.
2. Asal Qdah. Automatic Speech Recognition for Speakers with Speech Disorders.

**Supervised the following M.Sc. Theses:**

- [1] Hashem Jawad. Branch Coverage Testing Using Anti-Random., 2011.
- [2] Tasneem Mahmoud abu-kabeer. Intelligence Medical Decision Support System(Mdss) For Medical Management Diabetes Type Ii, 2013.
- [3] Nesreen Adnan. A clinical decision support system for heart disease diagnosis, 2013.
- [4] Atef Musa Abu-Arida. Expert System for Hospitals' Multi Standard Accreditation, 2012.
- [5] Elham alqassrawy . Gynaecological diseases diagnosis using clinical decision support system, 2013.
- [6] Heba Mohammad AL Harahsheh. SQL Exception Coverage Using Genetic Algorithms, 2011.
- [7] Esra Alzaben. Breast cancer recognition. 2011.
- [8] Rasha Beidas. Skin Cancer Recognition by using Neuro-Fuzzy. 2010.
- [9] Hamzeh S. Eyal-Salman. Using Genetic Algorithm in Test Data Generation for Oracle Named Block. 2010.

- [10] Majd Bassam Al-Ashhab. Automatic Test Data Generation Using Ant Colony Optimizat. 2010.
- [11] Rana Ali Samhan. Automatic Test Data Generation for Regular Expression Predicates, 2009.
- [12] Ezdehar Jawabreh. Using Mutation Testing to Generate Test Cases for Exception Handling . 2008.
- [13] Monther Y. Lafi, "Artificial Bee Colony-Based Test Data Generation for Path Coverage Testing" Department of Computer Science, The University of Jordan, 2013.
- [14] Wareef Al-Manaseer, "Automatic Test Data Generation for Java Card Application", Department of Computer Science, The University of Jordan, 2015.
- [15] Sama Farhan. A Medical Decision Support System for ENT Disease Diagnosis using Artificial Neural Networks.2015.
- [16] Zelal Qtawneh. Clinical decision support system to predict venous thromboembolism. 2015.
- [17] Abdelrahman Hasan. Automation of Thalassemia Microscopic Films Diagnosis based on Digital Image Processing.2015.
- [18] Ebtihal Abuobaid . Kidney Disease Predictor Based On Medical Decision Support System.2014.
- [19] Ghosoun Al-Hindi, "Vulnerabilities detection in web application based on genetic algorithm and decision tree", 2014.
- [20] Esra Zeton, "Comparative between using artificial neural network and fuzzy logic in classification of satellite cloud images.2016.
- [21] Majdoleen soaiti. "Using Genetic Algorithm for Medical Management Diabetes Type II". 2016
- [22] Ayman Rfoa. "The relation between thief's fingerprint minutiae and the criminal attributes". 2016.
- [23] Zenah Momani. "Modelling and Analyzing Neural Networks using Reproducing Kernel Hilbert Space Algorithm". 2016.
- [24] Hamzeh karki." A greedy Algorithm for Testing of Java Card Applications ". 2016.
- [25] Gofran Gralleh. Best Choice To Instance Selection for Active Learning In Network Intrusion Detection, 2017.
- [26] Suhad AbuAlreish: Design of an Intrusion Detection System based on a Dendrite Morphological Neural Networks, 2018.
- [27] Rawan Alawi: A Grey Wolf Optimizer Algorithm for Testing Java Card Applications , 2018.
- [28] Aya Faouri: The predicted dwelling for refugees in Europe Using Back-

propagation Neural Network Model and GIS, 2018.

[29] Mohammad Qbea'h. Detecting and preventing SQL injection attacks: a formal approach .2016.

**Co-Supervised the following M.Sc. Theses:**

- [1] Heba Saadeh. Incorporating Experimental Conditions Knowledge into the Process of Estimating Missing values in DNA Micro array Gene Expression Levels, 2009.
- [2] Laila A. Bdour, "*Routing Algorithm for Optical Chained-Cubic Tree Interconnection Network*" Department of Computer Science, The University of Jordan, 2014.
- [3] Ahmad Mousa U'wais Alamoush. "The 0-1 Knapsack Problem on Chained-Cubic Tree Interconnection Network ".2017.

**PhD. CURRENT SUPERVISION AND CO-SUPERVISION**

[1] Ala'a M. Al-Shaikh. Parallel Metaheuristic Algorithms for Finding Strongly Connected Components in Directed Graphs.

[2] Wareef Almanaser. Improving Arabic diacritization using deep learning techniques.

**M.Sc. CURRENT PROPOSALS SUPERVISION AND CO-SUPERVISION**

Ghadeer Tamimi. Electricity Theft Detection using One-Class Support Vector Machine.

Razan Matarneh. A Jaya Algorithm for Testing of Java Card Applications.

Royaa Roadeneh. Using Genetic Algorithms and morphological neural networks to manage diabetes type -2.

**PhD. Theses – Examinations Committee Membership**

1. Azam Nsour. Enhancing information retrieval for spatial data using R-tree and its variations.
2. Asal Qdah. Automatic Speech Recognition for Speakers with Speech Disorders.

**M.Sc. THESES – EXAMINATIONS COMMITTEE MEMBERSHIP**

- [1] Reema Hussni. Efficient Routing technique that maximize the Lifetime and Coverage of Wireless Sensor Networks. 2009.
- [2] Fatema Osman. Heterogeneous Multi-Deployment Strategy Effect on Maximizing the Lifetime Routing in Wireless Sensor Network. 2009.
- [3] Rabab Abo herah. Lower-Face verification using Adaptive Correlation Filter. 2010.

- [4] Najwa Mawajdeh. Avoiding Congested Nodes In Multicast Routing Protocols. 2010.
- [5] Abdallah Zoas. A Parallel Algorithm for finding best number of Clusters using Message Passing INTERFACE (MPI). 2010.
- [6] Farah Aladwan. A Data Hiding System in Medical Images.
- [7] Ahmad Ehwat. Web Threats Detection and Prevention: An Enhanced Approach. 2015.
- [8] Meais Qasem. Data Mining Approach for commercial Data Classification and Migration in Hybrid Storage Systems.
- [9] Mohammad Allemon. Face Recognition based on Image and Geometric Features, and Neural Networks.
- [10] Ibrahim Mufid Mahmoud. Evolving Effective Multi-Robot Coordination Strategies For Dynamic Environments Using Cultural Algorithm. JUST University.
- [11] Israa Ahmad Saadeh, "*Investigating Parallel Implementations of Electronic Voting Verification and Tallying Processes*" Department of Computer Engineering and Networks, The University of Jordan, Amman – Jordan, 2015.
- [12] Samaa Yousef Farhan, "*A Medical Decision Support System for ENT Disease Diagnosis Using Artificial Neural Networks*" Department of Computer Science, The University of Jordan, Amman – Jordan, 2015.
- [13] Atef M. Abu-Arida, "*Expert System for Hospitals' Multi Standard Accreditation*" Department of Computer Science, The University of Jordan, Amman – Jordan, 2010.
- [14] Rasha A. Beidas, "*Skin Cancer Recognition by Using Neuro-Fuzzy System*" Department of Computer Science, The University of Jordan, Amman – Jordan, 2010.
- [15] Manal A. Mizher, "*Bandwidth Provisioning Scheme for Clustered Wireless Sensor Network*" Department of Computer Science, The University of Jordan, Amman – Jordan, 2009.
- [16] Hashem Jawad. Branch Coverage Testing Using Anti-Random., 2011.
- [17] Tasneem Mahmoud abu-kabeer. INTELLIGENCE MEDICAL DECISION SUPPORT SYSTEM(MDSS) FOR MEDICAL MANAGEMENT DIABETES TYPE II, 2010.
- [18] Nesreen Adel. A clinical decision support system for heart disease diagnosis, 2010
- [19] Elham alqassrawy . Gynaecological diseases diagnosis using clinical decision support system, 2010.
- [20] Heba Mohammad AL Harahsheh. Sql Exception Coverage Using Genetic Algorithms, 2011.

- [21] Esra Alzaben. Breast cancer recognition. 2011.
- [22] Rasha Beidas. Skin Cancer Recognition by using Neuro-Fuzzy. 2010.
- [23] Hamzeh S. Eyal-Salman. USING GENETIC ALGORITHM IN TEST DATA GENERATION FOR ORACLE NAMED BLOCK. 2010.
- [24] Majd Bassam Al-Ashhab. AUTOMATIC TEST DATA GENERATION USING ANT COLONY OPTIMIZAT. 2010.
- [25] Rana Ali Samhan. Automatic Test Data Generation For Regular Expression Predicates, 2009.
- [26] Ezdehar Jawabreh. Using Mutation Testing to Generate Test Cases for Exception Handling. 2008.
- [27] Monther Y. Lafi, "*Artificial Bee Colony-Based Test Data Generation for Path Coverage Testing*" Department of Computer Science, The University of Jordan, 2013.
- [28] Wareef Al-Manaseer, "*Automatic Test Data Generation for Java Card Application*", Department of Computer Science, The University of Jordan, 2015.
- [29] Sama Farhan. A Medical Decision Support System for ENT Disease Diagnosis using Artificial Neural Networks.2015.
- [30] Zelal Qtawneh. Clinical decision support system to predict venous thromboembolism. 2015.
- [31] Abdelrahman Hasan. Automation of Thalassemia Microscopic Films Diagnosis based on Digital Image Processing.2015.
- [32] Ebtihal Abuobaid . Kidney Disease Predictor Based On Medical Decision Support System.2014.
- [33] Heba Saadeh. Incorporating Experimental Conditions Knowledge into the Process of Estimating Missing values in DNA Micro array Gene Expression Levels, 2009.
- [39] Laila A. Bdour, "*Routing Algorithm for Optical Chained-Cubic Tree Interconnection Network*".
- [40] Aman Ali Mohammed Awman. Fast Automated Diagnosis of Malignant Skin Lesions.2012.
- [41] Eman S. Alwadiyeh. Multipath, Quality of Service Routing Protocols for Mobile Ad hoc Network (MANet).
- [42] Aman Ali Awama. Fast Automated Diagnosis of Malignant Skin Lesions. 2011.
- [43] Omar M. Al-kasabeh. Anew Approach for Mobile Ip Routing Technique. 2010.
- [44] Manar Abdul Jabbar Ahmad Mizhar. Advanced Dynamic Sink Location foe Clustered WSN. 2010.
- [45] Hasan Mohammad Alhasan. Efficient Node-Energy Utilization in Wireless Sensor Networks. 2011.
- [46] Aiman Mamdouh Ayaal Awwad. Digital Image Scrambling method Based on two Dimensional Cellular Automata: Atest of the Lambda value. 2009.

- [47] Rasha Salah Blow. Developing a collaborative electronic portfolio framework for higher education and industry in Saudi Arabia. 2012.
- [48] Ezam Galeb. Routing Algorithm for CCT Interconnection Network. 2012.
- [49] Aesha Abo BAKER. Braille Character Recognition. 2013.
- [50] Ghosoun Al-Hindi, “*Vulnerabilities detection in web application based on genetic algorithm and decision tree*”, Department of Computer Science, The University of Jordan, August 2014.
- [51] Ishaq N. Sandoqah. The effectiveness of using a statistical debugging in python programs, 2016.
- [52] Ayman Rfoa. “The relation between thieves fingerprint minutiae and the criminal attributes”. 2016.
- [53] Zenah Momani. “Modelling and Analyzing Neural Networks using Reproducing Kernel Hilbert Space Algorithm”. 2016.
- [54] Hamzeh karki.” A greedy Algorithm for Testing of Java Card Applications “. 2016.
- [55] Ahmad Mousa Alamoush. “The 0-1 Knapsack Problem on Chained-Cubic Tree Interconnection Network “.2017.
- [56] Nafi’ Alsawae’r .”Formal modeling of Role Hierarchy and Delegation Constraints Role Based Access Control Polices. 2017.
- [57] Ahmad Jala yahya. “Paper Watermarks Detection and extraction based on digital Image Segmentation Techniques”. 2017.
- [58] **Suhad AbuAlreish**: Design of an Intrusion Detection System based on a Dendrite Morphological Neural Networks, 2018.
- [59] Omar Sawaer. Removal of fog in digital images using filtering, restoration and reconstruction.
- [60] **Rawan Alawi**: A Grey Wolf Optimizer Algorithm for Testing Java Card Applications
- [61] Aya Faouri: The predicted dwelling for refugees in Europe Using Back-propagation Neural Network Model and GIS.
- [62] Reem Saadah. Vehicles classification using image processing and convolutional neural network.
- [63] Khald Atawi. **Regression Algorithms Evaluation Using Multi-Criteria Decision Making**

## GRANTS

- Project Title: Smart Intelligent Anti-Collision Robotic Wheelchair System to Enhance Mobility for Incapable of Movement Patients.  
Funded by the University of Jordan (JU).  
Amount of Grant: JD 11,000, (2012 -2015).

- Project Title: Joint Programs and Framework for Doctoral Education in Software Engineering / PWs@PhD

Funded by EUMEDIS – European Union (EU)

Amount of Grant: €70,000. (2015 -2018)

- Project Title: Automatic Speech Recognition for Speakers with Speech Disorders.

Funded by the University of Jordan (JU).

Amount of Grant: JD 20,000, (2017 -2018).

#### PROFESSIONAL COURSES CERTIFICATES

- International Computer Driving Licence (ICDL).
- Oracle 9i Certified Professional Database Administrator - OCP DBA 9i –
- Oracle 8i Certified Professional Database Administrator - OCP DBA 8i –
- Sun Java 2 Certified Programmer.
- Introduction and advance Unix OS.

#### TAUGHT COURSES

#### COMPUTER SKILLS

Operating Systems	Applications & Tools
MS-DOS	Oracle SQL
Windows OS	Oracle Forms
Linux and Unix (Solaris)	Oracle Designer
<b>Programming Languages (C++, C#, Java,...)</b>	Microsoft Office

## Courses taught by the Dr Alshraideh

- Communication Skills
- Introduction to Oracle SQL and PL/SQL
- Oracle Developer (Forms and Reports)
- Oracle Database Administration
- Oracle Backup & Recovery
- Oracle Tuning
- Oracle Designer
- Object orienting in Oracle 8
- Visual Basic 6
- Java
- Introduction to Unix Operating Systems
- Advance Unix Operating Systems
- Windows NT (core and Admin)
- Networking Essentials
- Archiving system
- Secretary sessions
- Higher Administration
- Human Resources
- ICDL

## PUBLICATIONS

### Refereed Journal Papers

1. Hamzeh M. Allawi ,Warif AL Manasir , **Mohammad Alshraideh**. A greedy particle swarm optimization (GPSO) algorithm for testing real-world smart card applications. International Journal on Software Tools for Technology, V. Issue..., DOI :10.1007/s10009-018-00506-y.
2. Ayman Al-Refoa , **Mohammad Alshraideh**, Ahmad Sharieh. A New Algorithm for Locating and Extracting Minutiae from Fingerprint Images, Pattern Recognition and Image Analysis Journal, v. 4 , Issue ,...
3. **Ghofran Alqaralleh**, **Mohammad Alshraideh** and **Ali Alrodan**. A Comparison Study between Different Sampling Strategies for Intrusion Detection System of Active Learning Model. Journal of Computer Science, 2018. To be appear.
4. Esam Al-Nsour, Azzam Sleit, **Mohammad Alshraideh**. SOLD: A Node-Splitting algorithm for R-tree based on Objects' Locations Distribution, Journal of Information Science, pp. 1-27, 2018.
5. Isra Zaitoun , Nada Almasri, Luay Tahat, **Mohammad Alshraideh**. Satellite Image Cloud Classification Using Fuzzy Logic. International Journal of Imaging & Robotics, 19(1), 2019.
6. Assal A. M. Alqudah, **Mohammad Alshraideh**, Ahmad A. S. Sharieh. Arabic Disordered Speech Phonetic Dictionary Generator for Automatic Speech Recognition. Journal of

- Theoretical and Applied Information Technology, 2018.
7. Esam Al-Nsour, Azzam Sleit, **Mohammad Alshraideh**. Evaluating Various Quality Factors for Splitting Nodes in Tree-Structured Spatial Indices. *International Journal of Computer Applications*, 180(29), 49-55, March 2018.
  8. Esam Al-Nsour, Azzam Sleit, **Mohammad Alshraideh**. R-tree Node-splitting Algorithm using Combined Quality Factors and Weights. *The 2017 International Conference on Computational Science and Computational Intelligence*, 2018.
  9. Zaineh Momani, **Mohammad Alshraideh**, Omar Abu, Arqub, Shaher Momani. Modelling and Analyzing Neural network using Reproducing Kernel Hilbert Space Algorithm. *Applied Mathematics and information Science*, 2018.
  10. Amjad Hudaib, **Mohammad Alshraideh**, Ola Surakhi, Mohammed Alkhanafseh. A Survey On Design Methods for Secure Software Development, *International Journal of Computers and Technology*, 16(7), 2017.
  11. Esraa A. AL-Dreabi, Mohammad M. Otoom, Bareqa Salah, Ziad M. Hawamdeh, **Mohammad Alshraideh**. Automated Detection of Breast Cancer using Artificial Neural Networks, *International Journal of Sciences: Basic and Applied Research (IJSBAR)*, 35(3), 2017.
  12. Zelal Qatawneh, **Mohammad Alshraideh**, Nada Almasri, Luay Tahat, Abdullah Awidi. Clinical Decision Support System for Venous Thromboembolism Risk Classification, *Applied Computing and Informatics*, 2017.
  13. Osama Mohammad Rababah, **Mohammad Alshraideh**, Mohammad AM Abushariah, Saher Manaseer, Maged AlQisi .Optimizing the process of developing E-government website using decision support system. *Scientific Research and Essays*,( 2016), 11(10), pp. 104-116.
  14. Saher Manaseer, Wareef Manaseer, **Mohammad Alshraideh**, Nabeel Abuhashish, Omar Adwan .Automatic Test Data Generation for Java Card Applications Using Genetic Algorithm. (2016),8(12), pp. 603-616.
  15. Nada Almasri, Luay Tahat,**Mohammad Alshraideh**. Maintenance-Oriented Classifications of EFSM Transitions. *Journal of Software*. (2016), JSW 11 (1), 64-79.
  16. Farah Al Adwan, Mohammad Al Shraideh , Mohammed Rasol” Saleem Al Saidat . A Genetic Algorithm Approach for Breaking of Simplified Data Encryption Standard. *International Journal of Advanced Science and Technology*. Vol.9, No.9 (2015), pp.295-304.
  17. Sama Farhan, **Mohammad Alshraideh**, Tareq Mahafza. A Medical Decision Support System for ENT Disease Diagnosis using Artificial Neural Networks. *International Journal of Artificial Intelligence and Mechatronics* ,(2015), 4 (2), 45-54.
  18. **Mohammad Alshraideh** , Luay Tahat. Multiple-Population Genetic Algorithm for Solving Min-Max Optimization Problems. *International Review on Computers and Software (IRECOS)*. Vol 10, Issue 1, pp. 10-20.
  19. Mohammed Alshraideh, Basel A Mahafzah, Saleh Al-Sharaeh, Ziad M Hawamdeh. A robotic intelligent wheelchair system based on obstacle avoidance and navigation

- functions. Journal of Experimental & Theoretical Artificial Intelligence. Volume 27, Issue 4, 2015, pp.471-482.
20. Esraa Ahmad AL-Dreabi, **Mohammad Alshraideh**, Bareqa Salah, Ziad M. Hawamdeh, Automated Detection of Breast Cancer using Artificial Neural Networks, Neural Network World Journal. Accepted.
  21. Samar Al-Saqqa , Rizik Al-Sayyed , **Mohammad Al Shraideh** , Maisaa Abu Obaidah , Sana'a Balawi . How Technology Affects Our Life: The Case of Mobile Free Minutes in Jordan. Life science journal, vol. 11, no. 7, 2014. ISSN: 1097-8135.pp.417 -423.
  22. Hashim J. Hasan, **Mohammad Alshraideh**, Basel A. Mahafzah. Branch coverage testing using anti-random technique. i-manager's Journal on Software Engineering. Vol. 8 Issue 2, pp.1-23.
  23. **Mohammad Alshraideh** , Ezdehar Jawabreh , Basel A. Mahafzah , Heba M. AL Harahsheh. Applying Genetic Algorithms to Test JUH DBs Exceptions. International Journal of Advanced Computer Science and Applications, Vol.4 , No. 7, pp. 8-20 , 2013.
  24. Imad Salah , **Mohammad Alshraideh**, Saleh Al-Sharaeh, Heba Saadeh, Alia Naser. Three-Dimensional Dynamic Based Borrowing Scheme for Wireless Cellular Networks Computer Science & Communications, Vol. 6, No. 2,pp. 99- 110.
  25. Imad Salah , **Mohammad Alshraideh**, Saleh Al-Sharaeh. An Efficient Priority Based Routing Technique That Maximizes The Lifetime And Coverage of Wireless Sensor Networks, Int'l J. of Communications, Network and System Sciences, volume (6), Issue 2,pp.100-108.
  26. **Mohammad Alshraideh**, Basel A. Mahafzah, hamzeh s. eyal salman, Imad Salah. Using Genetic Algorithm as Test Data Generator for Stored PL/SQL Program Units, Journal of Software Engineering and Applications, Scientific Research , Vol. 6 No. 2, pp. 65- 73.
  27. M. Abu-Arida, I. Salah, **Mohammad Alshraideh**, F. Hayajneh. Multi Standard Accreditation as Expert System Tool in Jordan University Hospitals, International Journal Of Computers And Communications, Issue 4, volume 6. pp.202 -217.
  28. Ziad M. Hawamdeh , **Mohammad Alshraideh** , Jihad M. Al-Ajlouni<sup>3</sup>, Imad K. Salah , Margo B. Holm , Ali H. Otom . Development of a decision support system to predict physicians' rehabilitation protocols for patients with knee osteoarthritis. International Journal of Rehabilitation, 35(3):214-9.,2012, doi: 0.1097/MRR.0b013e3283533766
  29. Basel A. Mahafzah, **Mohammad Alshraideh**, Tasneem M Abu-Kabeer, Elham FAhmad, Nesreen A Hamad, The optical chained-cubic tree interconnection network topological structure and properties. Computers and Electrical Engineering, Elsevier publisher, (2011). Volume 38 Issue 2, March, 2012 , Pages 330-345
  30. Bareqa Salah, **Mohammad Alshraideh**, Rasha Beidas, Ferial Hayajneh . Skin Cancer Recognition by using Neuro-Fuzzy system, Cancer Informatics, ISSN: 1176-9351,Libertas Academica . doi: [10.4137/CIN.S5950](https://doi.org/10.4137/CIN.S5950), 02 Feb 2011.
  31. **Mohammad Alshraideh**, Basel Mahafzah,, Saleh Al-Sharaeh. A Multiple-Population

Genetic Algorithm for Branch Coverage Test Data Generation. Software Quality Journal. Volume 19, Number 3, pp 489-513

32. **Mohammad Alshraideh**, Qataweh Mohammad, Wesam Almobaideen, Azzam Sleit. Program-Operators to Improve Test Data Generation Search. WSEAS TRANSACTIONS on COMPUTERS, Issue 8, Volume 9, August 2010. ISSN: 1109-2750.
  33. **Mohammad Alshraideh**, Leonardo Bottaci, Basel Mahafzah . Using program datastate scarcity to guide automatic test data generation. Software Quality Journal. Volume 18, Issue 1 (2010), pages 109-144, DOI:10.1007/s11219-009-9083-x.
  34. Fawaz A. M. Masoud, Qataweh Mohammad, Wesam Almobaideen, **Mohammad Alshraideh**, Nabil Abu Hashish, Oraib Megdady, Shatha Al-Asir, Shorouq Aladaileh. Interactive RPC Binding Model. European Journal of Scientific Research. Vol.27 No.1 (2009), pp.112-119, EuroJournals Publishing, Inc. 2009.  
<http://www.eurojournals.com/ejsr.htm>.
  35. **Mohammad Alshraideh**. A Complete Automation of Unit Testing for JavaScript Programs. Journal of Computer Science 4 (12): 1012-1019, 2008, ISSN 1549-3636.
  36. **Mohammad Alshraideh**, Leonardo Bottaci. Search-based Software Test Data Generation for String Data using program-Specific Search Operators. Special Issue of Software Testing, Verification and Reliability, 16(3), September 2006, pp.175-203.
  37. **Mohammad Alshraideh**, Ahmed Alshraih. Recognition Process of Handwritten and Typed Arabic Letters, A.M.S.E (Association for the advancement of Modeling & Simulation Techniques in Enterprises), Vol. 45, No. 1, pp.1-20 , Lyon, France, 2002.
- 

#### RESEARCH PAPERS IN PROGRESS

- [1] Basel A. Mahafzah, Luay Tahat, and **Mohammed Alshraideh**, "*Performance Assessment of Hyper Hexa-Cell Interconnection Network*".
- [2] Ebtihal Abuobaid, **Mohammad Alshraideh**, Sameeha Ahmad Al-Shelleh, " Kidney Disease Predictor Based On Medical Decision Support System "
- [3] Tasneem M. Abu-Kabeer, **Mohammad Alshraideh**, "Intelligence Clinical Decision Support System for Diabetes Management"
- [4] **Mohammad Alshraideh** and Nessreen Ahad, " A clinical decision support system for heart diseases diagnosis "
- [5] **Mohammad Alshraideh** and Elham Ahmad, " A Neural Network Based Clinical Decision Support System for the Diagnosis of Gynecological Diseases "

- [6] **Mohammad Alshraideh** and Lenardo Bottaci. A control flow scarcity heuristic for search-based test data generation.
- [7] **Mohammad Alshraideh and Esam Nsour** : Multiple quality factors combined for splitting nodes in tree-structured spatial indices.
- [8] **Mohammad Alshraideh**, Raneem Qaddoura, Waref Al Manaseer. Dental Radiography Segmentation using Expectation-Maximization Clustering and Grasshopper Optimizer
- [9] **Mohammad Alshraideh**, Ghosoun AL Hindi. Vulnerabilities Detection in Web Application Using Genetic Algorithm

## Refereed Conference and Workshop Papers

1. Mohammad Qbea'h, **Mohammad Alshraideh**, Khair Eddin Sabri. Detecting and Preventing SQL Injection Attacks: A Formal Approach. Cybersecurity and Cyberforensics Conference (CCC), pp. 123-129, 2016.
2. **Mohammad Alshraideh**. Using Program Specific Search Operators in Test Data Generation, EUROPEAN COMPUTING CONFERENCE (ECC '10), Bucharest, Romania, April 20-22, 2010.
3. **Mohammad Alshraideh**. Using Genetic Algorithms to Solve Flag Problem in Test Data Generation. The Fourth International Workshop on Advanced Computation for Engineering Applications (ACEA08). Al-Balqa Applied University, Salt, Jordan, July 23-24, 2008.
4. **Mohammad Alshraideh**. From Population Diversity to Search Diversity For Test Data Generation. Testing: Academic & Industrial Conference practice and research techniques (TAIC), London, UK, September 2008.
5. **Mohammad Alshraideh**, Leonardo Bottaci. Using program data-state diversity in test data search. Testing: Academic & Industrial Conference practice and research techniques (TAIC), London, UK, August 29 -31, 2006, pp. 107 -114.
6. **Mohammad Alshraideh**, Leonardo Bottaci. Automatic Software Test Data Generation for String Data Using Heuristic Search with Domain Specific Search Operators, Proceedings of the UK Software Testing Workshop ([UKTest 2005](#)), University of Sheffield, UK, September 5-6, 2005, pp. 137-150.

## Conference and Workshop attended

1. Improving Higher Education Quality in Jordan using Mobile Technologies for Better Integration of Disadvantaged Groups to Socio-economic Diversity/ Mequity, Gran Canary, Spain, 27-30 June, 2017.
2. 7th Annual Symposium 'Anti-Doping in Humans and Animals: Biomarkers & Threshold Substances' 1st & 2nd May, 2017, Doha, Qatar.
3. 10th anniversary of the annual International Anti-Doping Seminar in Asia and Oceania: "PLAY TRUE 2020 Week", December 7-10, 2016, Sapporo, Hokkaido, Japan.
4. The Seminar, titled 'Achieving a Quality Practice with 2015 Code and Engagement', was held on 27-28 January, followed-by "Intelligence Workshop in Asia and Oceania" on 29 January 2016, Tokyo, Japan.
5. TAM on Diploma Supplement Activity. 26-27 April 2017, The University of Jordan, Amman, held by National Erasmus+ Office – Jordan and International experts.
6. Jean Monnet Actions' Promotion Project (JMAPP). Beirut, Lebanon, on 12th January 2016.
7. "Developing interdisciplinary minors in climate change and sustainability policy" (CLIMASP), Frederick University, Cyprus, 5-7 May 2016.
8. Mobility Building schools which are part of " Joint Programs and Framework for Doctoral Education in Software Engineering / PWs@PhD" ( Erasmus + project) as follows:
  - Denmark school, Alborg University, Copenhagen, Denmark, 7 -12 December 2015.
  - Finland school, Lappeenranta University of Technology, Lappeenranta, Finland, 18 April – 1st May 2016.
  - Denmark school, Alborg University, Copenhagen, Denmark, 14 - 28 August, 2016.
  - Jordan School, Jordan University, Amman, Jordan, 29 January- 11 February 2017.
  - Russia School, South Ural State University, Chelyabinsk, Russia, May 15th - 26th, 2017.
9. eASiA 2009 conference and exhibition Colombo, Sri Lanka, 2-5 December 2009.
10. Gulf Education Conference (2015), Abu Dhabi, UAE, 18 & 19th March 2015.

## Books

1. **Mohammad Alshraideh**, Ahmed Alshraieh, Suher Abdullah. Learn the programming Language C++, Dar Almserah, ISBN 140, 2009.2nd ed.
2. Ahmed Alshraieh, **Mohammad Alshraideh**, Suher Abdullah. Learn the programming Language C++, Dar Almserah, ISBN 140, 2005. 1st ed.

## LANGUAGES

- **Arabic:** Native.
- **English:** Excellent reading and writing.

## REFERENCES

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