

Professor Mohammad Aref Alshraideh

Basic Information

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Home Page:

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=mlPbP5QAAAAJ&hl=en>

ResearchGate Profile: 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>

S.S.R.N. Id: 3389332

Publon profile: C-8113-2015

PERSONAL INFORMATION

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

CURRENT POSITION

Professor at Information Technology College, Lusail University, Qatar.
Professor at the Artificial Intelligence Department, the University of Jordan, Jordan.

EDUCATION

- **PhD** – The University of Hull (U.K.), June 2007.
Computer Science / Software Testing Using A.I. 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 **honour**, Computer Science/ Artificial intelligence, *Thesis'* title: " Recognition of Handwritten Arabic Characters Via Neural Networks".
Advisor: Prof. Ahmed Alshraih.
- **Diploma in System Engineering** (R.D.B.M., Oracle) with **honour**. 1996, Royal Scientific Society, Amman, Jordan
- **Bachelor of Science** – Mu'tah University, Jordan, February 1988. **Computer Science** with **honour**.

EMPLOYMENT & POSITIONS HELD

Professional Experience

- 1- August 2022 – August 2023: Vice President for Administrative and Financial Affairs.
- 2- August 2017- September 2020: Dean of Graduate School at the University of Jordan.
- 3- November 2014 –January 2020: Registrar General at the University of Jordan.
- 4- June 2012 – November 2014: Director of Human Resources at the University of Jordan.
- 5- January 2008 – June 2012: Head Director Assistant for Computer Technology at the Hospital of the University of Jordan.
- 6- September 2007 – January 2008. Assistant Dean for Students Affairs at King Abdullah II for Information and Technology.
- 7- Feb 2003 –July 2004 King Abdullah II School for IT, Jordan University: T.A.
- 8- July 1988 – Feb 2003: Private companies; Team leader, System Analyst, Programmer for different applications.

RESEARCH INTERESTS

Automated software testing and analysis, Computational Intelligence, Digital Humanities, search-based software engineering, automatic 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**, Information Technology College, Lusail, Qatar, August 2003.
- **Professor**, Computer Science Department, The University of Jordan, March 15/2016.
Taught courses:
Advanced data database (PhD Course), Artificial Intelligent (PhD course), Temporal Database (Master course), Computational intelligence (master course), Software Testing (master course), A.I., Software Eng., Theory of Algorithms, Discrete Math., Database, programming methodology, C++.
- **Associate Professor**, Computer Science Department, The University of Jordan, July 20 / 2012 till March 15/2016.
Taught courses:
Database (PhD course), Temporal Database (Master course), Computational intelligence (master course), Software Testing (master course), Database, software engineering, simulation, programming languages and data structure, A.I., Theory of Algorithms, Discrete Math, Programming Methodology.
- **Assistant Professor**, Computer Science Department, The University of Jordan, August 9, 2007, until July 2012.
Taught courses:
Temporal Database (Master course), Computational intelligence (master course), Software Testing (master course), Database, software engineering, simulation, programming languages and data structure, Object-oriented language (Java), Theory of Algorithms, Discrete Math.

PUBLICATIONS

Refereed Journal Papers

1. Imad Salah, Bayan Alfayoumi, Amani Alghareeb, Basima Elshqeirat , **Mohammad Alshraideh**, Applying Artificial Intelligence Techniques on Cyber Security Datasets: Detecting Cyber Attacks. International Journal on Recent and Innovation Trends in Computing and Communication, V.11(10), 2024.
2. **Mohammad Alshraideh**, Najwan Alshraideh, Abedalrahman Alshraideh, Yara Alkayed, Yasmin Al Trabsheh, Bahaaldeem Alshraideh, Enhancing Heart Attack Prediction with Machine Learning: A Study at Jordan University Hospital, Applied Computational Intelligence and Soft Computing, 2024.
3. **Mohammad Alshraideh**, Mohammad Abushariah, Modern Standard Arabic Speech Disorders Corpus for Digital Speech Processing Application, International Journal of Speech Technology, Springer Nature, 27, pp. 157-170, 2024.
4. Yazan Al Shamaileh, **Mohammad Alshraideh**, Ibrahim Aljarah, Hamad Alsawalqah, Hossam Faris. An Automatic Prediction of Students' Performance to Support The University Education System: A Deep Learning Approach, Multimedia Tools and Applications, 2024.
5. **Mohammad Alshraideh**, Abeer Abdel-Jabber Abu-Zayed, Martin Leiner, Iyad Muhsen Aldajani, Beyond the Scoreboard: A Machine Learning Investigation of Online Games' Influence on Jordanian University Students' Grades, Applied Computational Intelligence and Soft Computing, 2024.
6. Imad Salah, Amani Alghareeb, **Mohammad Alshraideh**, Navigating Ethics in Digital Humanities: A Deep Dive into Decision Distribution within Higher Education at the University of Jordan, International Journal on Recent and Innovation Trends in Computing and Communication, vol. 11 (9), 2024.
7. Muyad Mahmoud ALkharabsheh, **Mohammad Alshraideh**, Imad Salah, Enhancing Cybercrime Deterrence with Artificial Intelligence, International Journal of Advanced Networking and Applications (I.J.A.N.A.), 15(4), 2024.
8. Bayan Alfayoumi, **Mohammad Alshraideh**, Iyad Muhsen Aldajani. Influence for online education on higher education institutions using Netnography, **Reconciliation, Conflict Transformation and Peace Studie** Springer Nature, ISBN, pp., 2024.
9. Nancy Shaar, **Mohammad Alshraideh**, Iyad Muhsen Aldajani, A comparative study for the traffic predictions in intelligent cities using Artificial intelligence techniques: Survey, **Reconciliation, Conflict Transformation and Peace Studies**, Springer Nature, ISBN, pp. 2024.
10. Ibrahim Aljarah and Raed Masadeh Yazn Alshamailah, Hossam Farisa, **Mohammad Alshraideh**, an intelligent rule-oriented framework for extracting key factors for grants scholarships in higher education, International Journal of Data and Network Science, 2024.
11. A. M. Alqudah, **Mohammad Alshraideh**, A. A. S. Sharieh, M. A. M. Abushariah and F. M. D. Quiam, "Arabic Automatic Speech Recognition for Speakers with Speech Disorders: A Comprehensive Review," 2023 *International Conference on*

Information Technology (I.C.I.T.), Amman, Jordan, 2023, pp. 667-673, doi: 10.1109/ICIT58056.2023.10225965.

12. Mohammad Qbea'h, Saed Alrabaae, **Mohammad Alshraideh**, Khair Eddin Sabri, Diverse Approaches Have Been Presented to Mitigate SQL Injection Attack, But It Is Still Alive: A Review, I.C.C.A. conference, Egypt, January 2023.
13. Nancy Shaar, **Mohammad Alshraideh**, Lara Shboul, Iyad Aldajani, Decision Support System (D.S.S.) for Traffic Prediction and Building a Dynamic Internet Community using Netnography Technology in The City of Amman, *Journal of Experimental & Theoretical Artificial Intelligence*.
14. Lara Shboul, Kamil Fram, Saleh Sharaeh, **Mohammad Alshraideh**, Nancy Shaar, Njwan Alshraideh, Male and Female Hormones Reading To Predict Pregnancy Percentage Using A Deep Learning Technique-A Real Case Study, *MDPI AI*, 2022.
15. Bilal Abu-Salih, Mohammad Alhabashneh, Dengya Zhu, Albara Awajan, Yazan Alshamaileh, Bashar Al-Shboul, **Mohammad Alshraideh**, Emotion detection of social data: APIs comparative study, arXiv preprint arXiv:2207.10654, 2022.
16. Sajeda Alnwairan, **Mohammad Alshraideh**, Iyad Muhsen AlDajani, Martin Leiner. Measuring The Academic Students' Performance at the University of Jordan Using Netnography Methodology, *Reconciliation, Heritage Book*, Springer Nature, ISBN 978-3-031-08712-7, pp. 129-143, October 2022.
17. Abeer Abdel-Jabbar Abu-Zayed, Esra Alzaghoul, Prof. Dr. Martin Leiner, Dr Iyad Muhsen AlDajani, **Mohammad Alshraideh**. Netnography Internet Research methodology Applications: A Survey, *Reconciliation, Heritage Book*, Springer Nature, ISBN 978-3-031-08712-7, pp. 99-107, October 2022.
18. Abeer Abdel-Jabbar Abu-Zayed, **Mohammad Alshraideh**, Prof.Dr. Martin Leiner, Dr Iyad Muhsen AlDajani. Netnography Internet Research methodology into the Internet of Toys, *Reconciliation, Heritage Book*, Springer Nature, ISBN 978-3-031-08712-7, pp. 87-98, October 2022.
19. Heba Harahsheh, **Mohammad Alshraideh**, Saleh Al-Sharaeh & Rizik Al-Sayyed (2022) Improving Classification Performance for Malware Detection Using Genetic Programming Feature Selection Techniques, *Journal of Applied Security Research*, DOI: 10.1080/19361610.2022.2067459
20. Rama Khaled Al-Sheikh, **Mohammad Alshraideh** and Saleh Al-Sharaeh, Variable-Slot Split Scheduling Algorithm Technique for Real-Time Industrial Wireless Sensor Networks, *Journal of Hunan University Natural Science*,48(12), 2021.
21. Ayah. AlFaouri, **Mohammad. Alshraideh**, Marten Leiner, Ayad. AlDajani, Syrian Refugees Information Prediction System (RIPS) in Germany: Applied Digital Humanities, *Journal A.R.M.E.N.I.A.- Reconciliation with Refuges Book*, pages 256-273.
22. Heba Al-Harahsheh, **Mohammad Alshraideh**, Saleh Al-Sharaeh, Performance of Malware Detection Classifier Using Genetic Programming in Feature Selection, *Informatica*, 45(12), 2021

23. Bayan Alfayoumi, **Mohammad Alshraideh**, Saleh Al-Sharaeh, Martin Leiner, Ayad Muhsen. (2021), Analyzing the Sentiments of Jordanian Students Towards Online Education in the Higher Education Institutions, (I.J.A.C.S.A.) International Journal of Advanced Computer Science and Applications, 12(11).
24. AlDajani Abdallah Alhameedyeen, **Mohammad Alshraideh**, Hazem Hairy. Goal-oriented Testing for Pointer Data Type. International Journal of Computers, 6, 60-67, 2021.
25. Amena Bataineh, **Mohammad Alshraideh**, Amjad Hudaib, The Automation of Java Smart Card Using Negative Testing, International Journal Of Computing and Digital Systems, 8/2021.
26. Bayan Alfayoumi, **Mohammad Alshraideh**, Prof. Dr. Martin Leiner, Dr Iyad Muhsen AlDajani, Machine Learning Predictions for the Advancement of Online Education in The Higher Education Institutions in Jordan. , Journal of Hunan University Natural Sciences, Volume 48 (9), 2021.
27. Methaq Kadhum; Enas Rawashdeh; **Mohammad Alshraideh**, An Efficient Bug Reports Assignment for IoT Application with Auto-tuning Structure of E.L.M. using Dragonfly Optimizer, Journal of Hunan University Natural Sciences, Volume 48 (7), 2021.
28. Al-Shaikh, A., Mahafzah, B.A., **Mohammad Alshraideh**, Hybrid harmony search algorithm for social network contact tracing of COVID-19. Soft Comput, 2021. <https://doi.org/10.1007/s00500-021-05948-2>
29. Waref Atef Almanaseer, **Mohammad Alshraideh**, Omar Sultan Al-Kadi. A Deep Belief Network Classification Approach for Automatic Discretization of Arabic Text, Applied Sciences, 2021.
30. Ebtihal Abuobaid, **Mohammad Alshraideh**, Sameha Ahmad Al-Shelleh, Baha Aldeen Alshraideh. Kidney Disease Predictor Based On Medical Decision Support System, Trends in Technical & Scientific Research, 4(5), 2021.
31. Elham F. Ahmad, **Mohammad Alshraideh**, Kamil Fram. A Clinical Decision Support System for Diagnosing Gynecological Diseases, Journal of Theoretical and Applied Information Technology, 98(16), 2020.
32. Raneem Qaddoura, Waref Manaseer, Mohammad Abushariah, **Mohammad Alshraideh**. Dental radiography segmentation using expectation-maximization clustering and grasshopper optimizer, Multimedia Tools and Applications, 2020.
33. Tasneem Abu-Kabeer, **Mohammad Alshraideh**, Ferial Hayajneh. Intelligence Clinical Decision Support System for Diabetes Management, W.S.E.A.S. Transactions on Computer Research, 8(8), pp. 44-60, 2020.
34. Basel A. Mahafzah, **Mohammed Alshraideh**, Luay Tahat, and Nada Almasri. Topological Properties Assessment for Hyper Hexa-Cell Interconnection Network, INTERNATIONAL JOURNAL OF COMPUTERS, 13, 2019.
35. Ala'a Al-Shaikh, Basel Mahafzah, **Mohammad Alshraideh**. Metaheuristic Approach Using Grey Wolf Optimizer for Finding Strongly Connected Components in Digraphs, Journal of Theoretical and Applied Information Technology, 97(16), 2019.
36. Ghofran Mohammad Alqaralleh, **Mohammad Aref Alshraideh**; Ali Alrodan. The Effect of Attacker On Three Sampling Strategies in Active Learning i-manager's Journal on Software Engineering, 2019.

37. Majdoleen Al Switi, **Mohammad Alshraideh**, Bahaaldeen Alshraideh, Abedalrhman Alshraideh. The Treatment of Diabetes Type II Using Genetic Algorithm, *International Journal of Online and Biomedical Engineering (iJOE)*, 2019.
38. Hamzeh M. Allawi, Warif AL Manasir, **Mohammad AlShraideh**. A greedy particle swarm optimization (G.P.S.O.) algorithm for testing real-world smart card applications. *International Journal on Software Tools for Technology*, 2019, DOI: 10.1007/s10009-018-00506-y.
39. Ayman Al-Refoa, **Mohammad Alshraideh**, Ahmad Shariah. A New Algorithm for Locating and Extracting Minutiae from Fingerprint Images, *Pattern Recognition and Image Analysis Journal*, 2019.
40. Isra Zaitoun, Nada Almasri, Luay Tahat, **Mohammad Alshraideh**. Satellite Image Cloud Classification Using Fuzzy Logic. *International Journal of Imaging & Robotics*, 19(1), 2019.
41. 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.
42. 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.
43. Assal A. M. Alqudah, **Mohammad Alshraideh**, Ahmad A. S. Shariah. Arabic Disordered Speech Phonetic Dictionary Generator for Automatic Speech Recognition. *Journal of Theoretical and Applied Information Technology*, 2018.
44. 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.
45. 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.
46. Zaineh Momani, **Mohammad Alshraideh**, Omar Abu, Arqub, Shaher Momani. Modelling and Analyzing Neural Networks Using the Reproducing Kernel Hilbert Space Algorithm. *Applied Mathematics and Information Science*, 2018.
47. 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.
48. 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 (I.J.S.B.A.R.)*, 35(3), 2017.
49. Zelal Qatawneh, **Mohammad Alshraideh**, Nada Almasri, Luay Tahat, Abdullah Awidi. Clinical Decision Support System for Venous Thromboembolism Risk Classification, *Applied Computing and Informatics*, 2017.
50. Osama Mohammad Rababah, **Mohammad Alshraideh**, Mohammad AM Abushariah, Saher Manaseer, Maged AlQisi. Optimizing the process of developing an E-government website using a decision support system. *Scientific Research and Essays*, (2016), 11(10), pp. 104-116.

51. 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.
52. Nada Almasri, Luay Tahat **Mohammad Alshraideh**. Maintenance-Oriented Classifications of E.F.S.M. Transitions. *Journal of Software*. (2016), JSW 11 (1), 64-79.
53. 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.
54. Sama Farhan, **Mohammad Alshraideh**, Tareq Mahafza. A Medical Decision Support System for E.N.T. Disease Diagnosis using Artificial Neural Networks. *International Journal of Artificial Intelligence and Mechatronics*,(2015), 4 (2), 45-54.
55. **Mohammad Alshraideh**, Luay Tahat. Multiple-Population Genetic Algorithm for Solving Min-Max Optimization Problems. *International Review on Computers and Software (I.R.E.C.O.S.)*. Vol 10, Issue 1, pp. 10-20.
56. Mohammed Alshraideh, Basel A Mahafzah, Saleh Al-Shariah, 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.
57. Esraa Ahmad AL-Dreabi, **Mohammad Alshraideh**, Bareqa Salah, Ziad M. Hawamdeh, Automated Detection of Breast Cancer using Artificial Neural Networks, *International Journal of Sciences: Basic and Applied Research (IJSBAR)*, 35(3), 2017.
58. 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.
59. Hashim J. Hasan, **Mohammad Alshraideh**, Basel A. Mahafzah. Branch coverage testing using the anti-random technique. *I-manager's Journal on Software Engineering*. Vol. 8 Issue 2, pp.1-23.
60. **Mohammad Alshraideh**, Ezdehar Jawabreh, Basel A. Mahafzah, Heba M. AL Harahsheh. Applying Genetic Algorithms to Test J.U.H. D.B.s Exceptions. *International Journal of Advanced Computer Science and Applications*, Vol.4, No. 7, pp.8-20, 2013.
61. Imad Salah, **Mohammad Alshraideh**, Saleh Al-Shariah, Heba Saadeh, Alia Naser. Three-Dimensional Dynamic Based Borrowing Scheme for Wireless Cellular Networks *Computer Science & Communications*, Vol. 6, No. 2, pp. 99- 110.
62. Imad Salah, **Mohammad Alshraideh**, Saleh Al-Shariah. 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.
63. **Mohammad Alshraideh**, Basel A. Mahafzah, hamzah s. Eyal Salman, Imad Salah. Using Genetic Algorithms 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.
64. 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.
65. Ziad M. Hawamdeh, **Mohammad Alshraideh**, Jihad M. Al-Ajlouni³, 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
 66. Basel A. Mahafzah, **Mohammad Alshraideh**, Tasneem M. Abu-Kabeer, Elham Ahmad, 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
 67. Bareqa Salah, **Mohammad Alshraideh**, Rasha Beidas, Ferial Hayajneh. Skin Cancer Recognition 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.
 68. **Mohammad Alshraideh**, Basel Mahafzah, Saleh Al-Shariah. A Multiple-Population Genetic Algorithm for Branch Coverage Test Data Generation. Software Quality Journal. [Volume 19, Number 3](#), pp 489-513
 69. **Mohammad Alshraideh**, Qatawneh 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.
 70. **Mohammad Alshraideh**, Leonardo Bottaci, Basel Mahafzah. Using program data state 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.
 71. Fawaz A. M. Masoud, Qatawneh Mohammad, Wesam Almobaideen, **Mohammad Alshraideh**, Nabil Abu Hashish, Oraib Megdady, Shatha Al-Asir, Shorouq Aladaileh. Interactive R.P.C. Binding Model. European Journal of Scientific Research. Vol.27 No.1 (2009), pp.112-119, EuroJournals Publishing, Inc. 2009.
 72. <http://www.eurojournals.com/ejsr.htm>.
 73. **Mohammad Alshraideh**. A Complete Automation of Unit Testing for JavaScript Programs. Journal of Computer Science 4 (12): 1012-1019, 2008, ISSN 1549-3636.
 74. **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.
 75. **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.
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- [1] **Mohammad Alshraideh** and Nessreen Ahad, " A clinical decision support system for heart disease diagnosis ".
- [2] **Mohammad Alshraideh** and Leonardo Bottaci. A control flow scarcity heuristic for search-based test data generation.
- [3] **Mohammad Alshraideh and Esam Nsour**: Multiple quality factors combined for splitting nodes in tree-structured spatial indices.
- [4] **Mohammad Alshraideh**, Ghosoun AL Hindi. Vulnerabilities Detection in Web Application Using Genetic Algorithm
- [5] **Mohammad Alshraideh**, Hani Younis, Performance Analysis of a Retail Banking Customer Churn Prediction Model Using Deep Forward Neural Network

Refereed Conference and Workshop Papers

1. Assal A. M. Alqudah, **Mohammad Alshraideh**, Ahmad A. S. Sharieh Fatima M. D. Quiam. Arabic Automatic Speech Recognition for Speakers With Speech Disorders: A Comprehensive Review, Conference: 2023 International Conference on Information Technology (I.C.I.T.), August 2023, DOI: 10.1109/ICIT58056.2023.1022596
2. **Mohammad Alshraideh** (University of Jordan) - Iyad Al-Dajani (Friedrich Schiller University Jena), Applied Phronesis in Reconciliation Digital Research, Digital Research in Digital Humanities, The Academic Alliance For Reconciliation In The Middle East And North Africa Aarmena 2020: Heritage, Reconciliation And Social Inclusion Jena Center for Reconciliation Studies, Friedrich Schiller University Jena (11. - 14.08.2020)
3. Esam Al-Nsour, Azzam Sleit, **Mohammad Alshraideh**. A Pictorial Performance Comparison of Spatial Indexes, 2020 11th International Conference on Information and Communication Systems (I.C.I.C.S.), pp.42-47, 2020.
4. 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.

5. **Mohammad Alshraideh**. Using Program Specific Search Operators in Test Data Generation, EUROPEAN COMPUTING CONFERENCE (E.C.C. '10), Bucharest, Romania, April 20-22, 2010.
6. **Mohammad Alshraideh**. Using Genetic Algorithms to Solve Flag Problems 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.
7. **Mohammad Alshraideh**. From Population Diversity to Search Diversity For Test Data Generation. Testing: Academic & Industrial Conference Practice and Research Techniques (T.A.I.C.), London, UK, September 2008.
8. **Mohammad Alshraideh**, Leonardo Bottaci. Using program data-state diversity in test data search. Testing: Academic & Industrial Conference Practice and research techniques (T.A.I.C.), London, UK, August 29 -31, 2006, pp. 107 -114.
9. **Mohammad Alshraideh**, Leonardo Bottaci. Automatic Software Test Data Generation for String Data Using Heuristic Search with Domain-Specific Search Operators, Proceedings of the U.K. Software Testing Workshop ([UKTest 2005](#)), University of Sheffield, UK, September 5-6, 2005, pp. 137-150.

Conference and Workshop attended

1. The Academic Alliance For Reconciliation In The Middle East And North Africa A.A.R.M.E.N.A., August 11th – 14th, 2020).
2. I-manager's Virtual Conference On Electronic And Communication: Loading Intelligence On Future Electronic (V.C.E.C.: LIFE2020.), 17 November 2020. (Online).
3. Facebook Testing and Verification Symposium, London, Nov. 20-21, 2019
4. 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.
5. 7th Annual Symposium 'Anti-Doping in Humans and Animals: Biomarkers & Threshold Substances' 1st & 2nd May 2017, Doha, Qatar.
6. The 10th anniversary of the annual International Anti-Doping Seminar in Asia and Oceania: "PLAY TRUE 2020 Week", December 7-10, 2016, Sapporo, Hokkaido, Japan.
7. The Seminar, titled 'Achieving a Quality Practice with 2015 Code and Engagement', was held on 27-28 January, followed by the "Intelligence Workshop in Asia and Oceania" on 29 January 2016, in Tokyo, Japan.
8. T.A.M. on Diploma Supplement Activity. 26-27 April 2017, The University of Jordan, Amman, held by National Erasmus+ Office – Jordan and International experts.
9. Jean Monnet Actions' Promotion Project (JMAPP). Beirut, Lebanon, on 12th January 2016.
10. "Developing interdisciplinary minors in climate change and sustainability policy" (C.L.I.M.A.S.P.), Frederick University, Cyprus, 5-7 May 2016.
11. 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.
12. eASia 2009 conference and exhibition Colombo, Sri Lanka, 2-5 December 2009.
13. CUSEF 2015 Conference (2015) Al-Balqa University, Jordan, 19-21 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.

REVIEWING AND EDITORIAL BOARD MEMBER ACTIVITIES

- I-manager's Journal on Software Engineering. (**Editor-in-Chief** since 2015).
- Applied Soft Computing, Netherlands.
- IEEE Access
- The International Arab Journal of Information Technology
- Journal of Basic and Applied Research International, U.S.A.
- Journal of Experimental & Theoretical Artificial Intelligence (Taylor and Francis, United Kingdom).
- International Journal of Computers & Technology
- W.S.E.A.S. 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 (J.S.E.A.).
- Computational Intelligence Journal.
- International Journal of Information and Computer Security (I.J.I.C.S.)
- 16th International Conference on Neural Networks
- International conference ICCCS-2015.
- W.S.E.A.S. Conferences.

- Technical Program Committee, Conference Committees - IEEE Xplore (I.C.M.I.R.A. 2013).
- Technical Committee Member, International Conference on the Applications of Digital Information and Web Technologies (I.C.A.D.I.W.T. 2009).
- Technical Committee Member, Conference on the Application of Digital Information and Web Technologies (I.C.A.D.I.W.T.)
- Technical Committee Member, International Conference on Integrated Intelligent Computing (I.C.I.I.C. 2010).
- Technical Committee Member, International Arab Conference of e-Technology (IACe-T), (2008 – Present). URL address: <http://www.iace-t.org/callforpaper.html>
- 2021 3rd Asia Pacific Information Technology Conference
- 2nd International Conference on Signal, Image Processing (S.I.P.O. 2018)

ACADEMIC COMMITTEES MEMBERSHIP

- 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 the Ministry of Health.
- Member of the grievance of staff at the University of Jordan Hospital
- Member of the committee supervising the elections for the University of Jordan club from 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
- The committee at J.U.H.
 - 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 Ph.D. 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 PhD 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. These 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.

OTHER COMMITTEES

- Member of King Abdullah Bin Al-Hussein Award for Creativity, 2018- NOW
- Member of the Higher Committee supervising the Scientific Research Award for university students
- Member of the I.T. Specialized Committee in the Ministry of Higher Education.
- Member of YOUTH IN A CHANGING WORLD, A project of the Committee on Global Thought, Columbia University

GRADUATE STUDENTS SUPERVISION

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.
3. Ala'a M. Al-Shaikh. Parallel Metaheuristic Algorithms for Finding Strongly Connected Components in Directed Graphs.
4. Methag, Kathem. Enhancing Cloud Network Performance Based on Data Processing in Edge Computing Level Using Machine Learning Techniques, 2020.
5. Wareef Almanaser. Improving Arabic discretization using deep learning techniques 2021.

6. Heba Harahsheh, An Intelligent Efficient Dynamic Malware Detection technique, 2021.

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 disease diagnosis using clinical decision the 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 a Genetic Algorithm in Test Data Generation for Oracle Named Block. 2010.
- [10] Majd Bassam Al-Ashhab. Automatic Test Data Generation Using A Colony Optimization. 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 E.N.T. Disease Diagnosis using Artificial Neural Networks.2015.
- [16] Zelal Qtawneh. A 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 classifying satellite cloud images 2016.
- [21] Majdoleen society. "Using Genetic Algorithms 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 European refugees using Back-propagation Neural Network Model and G.I.S., 2018.
- [29] Mohammad Qbea'h. Detecting and preventing SQL injection attacks: a formal approach .2016.
- [30] Razan Matarneh. A Jaya Algorithm for Testing of Java Card Applications, 2019.
- [31] Abdallah Aldaajah. Goal-oriented testing for the pointer data type, 2019.
- [32] Amneh Bataenah. Negative testing for Java Smart Card, 2019.
- [33] Ghadeer Tamimi. Electricity Theft Detection using One-Class Support Vector Machine.2020.
- [34] Hani Younes. Banking Customer Churn Prediction System Using Artificial Neural Network.2020.
- [35] Gaith Abo Hasheish. Testing and Analysis Financial Company Data Using Big Data Framework.2020.
- [36] Abeer Abu Zaid, A qualitative content analysis of the social media discourses on the Internet of things at Jordanian universities, 2021.
- [37] Sajedah Noyran, Measuring the academic students' performance at the University of Jordan using Netnography methodology, 2021.
- [38] Bayan Fayomi, The Prediction & Influence for online education on higher education institutions using Netnography & machine learning in Jordan.2021.
- [39] Ahamad Alsroor. Toward Fairness Grading of Undergraduate Programming Assignments Based-On Mutation Testing Technique,2021.
- [40] Nancy Shaar, A hybrid model for traffic prediction and communication with social media based on selective features using DSS.2021.
- [41] Lara Shbool, Male and Female hormones reading to predict pregnancy percentage and disease detection,2021.

- [42] Ayah Krajah, COVID-19 Detection from X-ray Images and CT-Scan Images Using Deep Learning, 2021.
- [43] Haneen Alshareef, Ensemble Machine learning for Fault Prediction in Object-Oriented Systems and Imbalanced Data Classification.2023.
- [44] Shrooq Manor, Ethical conducts and regulation for using artificial intelligence applications in the higher education institutions in Jordan.
- [45] Amani Gareeb, Applied Ethics in Digital Humanities for Decision Distribution in the Educational Process of the Higher Education Institution – A Case Study of the University of Jordan.2023.
- [46] Muyad Karabsheh, Employing artificial intelligence in combating cybercrime.2023.
- [47] Odi Aljbour, An Intelligent Model for Predicting 30-Day Readmissions in the Jordan University Hospital,2024.
- [48]

Co-supervised the following M.Sc. Theses:

- [1] Heba Saadeh. Incorporating Experimental Conditions Knowledge into the Process of Estimating Missing Values in D.N.A. Microarray 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

M.Sc. CURRENT PROPOSALS SUPERVISION AND CO-SUPERVISION

- [1] Wala Alabdlat, Arabic Depression Detection using Machine Learning Techniques.
- [2] Saja Kharabsheha, Prediction of Heart Attacks Using Machine Learning Algorithms.
- [3] Rawaah Abu-Hashesh, predicting campus violence in Jordan universities using machine learning through Netnography: A study of the University of Jordan.
- [4] Muna Matar, Detection of fake news on social media using machine learning for enhancing peacebuilding.
- [5] Noura Al-deqean, Revolutionizing Social Media: Enhancing Scalability through Blockchain Innovation

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.
3. Ala'a M. Al-Shaikh. Parallel Metaheuristic Algorithms for Finding Strongly Connected Components in Directed Graphs.
4. Khaled Adham, >>>>>>>>>>>>>>>>, 2020.
5. Methag, Kathem. Enhancing Cloud Network Performance Based on Data Processing in Edge Computing Level Using Machine Learning Techniques, 2020.
6. Mohammad Ahmed Asmaran, Finding Maximum Independent Set In A Graph Using Chemical Reaction Optimization Approach, 2020.
7. Susan Almahmood, <<<<<<<<<<, 2020.
8. Ola Surakhi, An Enhanced Parallel Time Series Prediction Model for Urban Fine Aerosols Concentrations in Amman-Jordan, 2020.
9. Areej Alshorman, A Mathematical Model for Vulnerabilities Detection in Ethereum Smart Contracts, 2020.
10. Mahmoud Ibrahim Moshref, An Enhanced Multi-Objective Non-Dominated Sorting Genetic Routing Algorithm For Improving The Qos in Wireless Sensor Networks, 2021.
11. Emad Khalid Tantawi. Automatic Speech Recognition of The Holy Qur'an Narrations Recitations, 2021.
12. Wareef Almanaser. Improving Arabic discretization using deep learning techniques 2021.
13. Nabil Refat Molaa, Self-Adaptive Methods for Regulating the Exploration and Exploitation Processes Ratio for Population-Based Algorithms
14. Heba Harahsheh, An Intelligent Efficient Dynamic Malware Detection technique, 2021.

15. Shatha Awawdeh, Missing Data Handling using Evolutionary Algorithms in the Context of Supervised Learning, 2022.
16. Sarah Shukri, an enhanced Nature-inspired algorithm for task scheduling in the cloud computing environment, 2022.
- 17.

M.SC. THESES – EXAMINATIONS COMMITTEE MEMBERSHIP

- [1] Reema Hussni. Efficient Routing technique that maximizes 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 the best number of Clusters using Message Passing Interface (M.P.I.). 2010.
- [6] Farah Aladwan. Data Hiding System in Medical Images.
- [7] Ahmad Ehwtat. 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 is 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.

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- [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(M.D.S.S.) FOR MEDICAL MANAGEMENT OF DIABETES TYPE II, 2010.
- [18] Nesreen Adel. A clinical decision support system for heart disease diagnosis, 2010.
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- [24] Majd Bassam Al-Ashhab. Automatic Test Data Generation Using Ant Colony Optimization. 2010.
- [25] Rana Ali Samhan. Automatic Test Data Generation For Regular Expression Predicates, 2009.
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thromboembolism. 2015.

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- [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 for Clustered W.S.N. 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: A test of the Lambda value. 2009.
- [47] Rasha Salah Blowli. Developing a collaborative electronic portfolio framework for higher education and industry in Saudi Arabia. 2012.
- [48] Ezam Galeb. Routing Algorithm for C.C.T. 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 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 modelling of Role Hierarchy and Delegation Constraints Role-Based Access Control Policies. 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 Sawyer. Removal of fog in digital images using filtering, restoration and

- reconstruction, 2019.
- [60] **Rawan Alawi**: A Grey Wolf Optimizer Algorithm for Testing Java Card Applications, 2019.
 - [61] Aya Faouri: The predicted dwelling for European refugees using Back-propagation Neural Network Model and G.I.S., 2019.
 - [62] Reem Saadah. Vehicles classification using image processing and convolutional neural network, 2019.
 - [63] Khalid Atawi. Regression Algorithms Evaluation Using Multi-Criteria Decision Making, 2019.
 - [64] Ahamad Mugarbi. >>>>>>>>>>>>>>> , 2019
 - [65] Abdallah Daajah. Goal-oriented testing for the pointer data type, 2019.
 - [66] Amneh Batayneh. Negative testing for Java Smart Card, **2019**.
 - [67] Hani Younes. Banking Customer Churn Prediction System Using Artificial Neural Network
 - [68] Abdallah Salem Hyassat, Reconstruction of Shredded Documents using Cellular Automata, 2020.
 - [69] Raneem Essam Abu Zayed, A Deep Learning Approach for Recognition Of Handwritten Arabic Mathematical Expressions, 2020.
 - [70] Raya Kamel Ali Alyazjeen, Verification of Access Control Policies using Model Checking, 2020.
 - [71] Ghadeer Saleh Tamimi, Electricity Theft Detection Using One-Class Support Vector Machine, 2020.
 - [72] Gaith Abo Hasheesh. Testing and Analysis Financial Company Data Using Big Data Framework, 2020.
 - [73] Metab Alzghoul, Anew Mechanism for load Balancing in Cloud.
 - [74] Razan Husein Aldibies, An Enhanced Segmentation Algorithm for Arabic Handwritten Recognition, 2020.
 - [75] Abeer Abu Zaid, A qualitative content analysis of the social media discourses on the Internet of things at Jordanian universities, 2021.
 - [76] Sajdah Noyran, Measuring the academic students' performance at the University of Jordan using Netnography methodology, 2021.
 - [77] Bayan Fayomi, The Prediction & Influence for Online Education on Higher Education Institutions using Netnography & Machine Learning in Jordan,2021
 - [78] Rama Khaled Ismail Alsheikh, Algorithm Enhancement Scheduling Technique for Real-Time Industrial Wireless Sensor Networks, 2021.
 - [79] Yasmin Ahmad Almashagbah, Offline Signature Identification Using Image Processing and Robust Features Selection, 2021.
 - [80] Ahamad Alroor. Toward Fairness Grading of Undergraduate Programming Assignments Based-On Mutation Testing Technique,2021.
 - [81] Nancy Shaar, A hybrid model for traffic prediction and communication with social media based on selective features using D.S.S.,2021.
 - [82] Lara Shbool, Male and Female hormones reading to predict pregnancy percentage and disease detection,2021.
 - [83] Hasan Aref Dabas, A comprehensive empirical study of the performance impact of ORMs

on .NET apps, 2021.

- [84] Mahmoud Ayyad, A biometric technique to secure credit card information on Android devices, 2022.
- [85] Imad Al-Abadi, an innovative technique for image encryption based on CHACHA Algorithm and D.N.A. coding,2022.
- [86] Muyad ALkharab, Employing Artificial Intelligence In Combating Cybercrimes, 2022.
- [87] Orobah Alnahr, A Framework for Enhancing Customer Loyalty of Enterprises Based on Moth-Flame Optimization, 2022.
- [88]

GRANTS

- Strengthening the Academic Alliance for Reconciliation in Higher Education in Peace, Conflict Transformation, and Reconciliation studies in the Middle East and North Africa (A.R.M.E.N.I.A.).
Funded by E.U.M.E.D.I.S. – European Union (E.U.)
Amount of Grant: **€870,000. (2020-2023)**
- Project Title: Joint Programs and Framework for Doctoral Education in Software Engineering / PWs@PhD
Funded by E.U.M.E.D.I.S. – European Union (E.U.)
Amount of Grant: **€70,000. (2015 -2018)**
- Project Title: Automatic Speech Recognition for Speakers with Speech Disorders.
Funded by the University of Jordan (J.U.).
Amount of Grant: JD 20,000 (2017 -2018).
- Project Title: Smart Intelligent Anti-Collision Robotic Wheelchair System to Enhance Mobility for Incapable Movement Patients.

Funded by the University of Jordan (J.U.).
Amount of Grant: JD 11,000 (2012 -2015).

PROFESSIONAL COURSES CERTIFICATES

- International Computer Driving Licence (I.C.D.L.).
- 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 advanced Unix O.S.

LANGUAGES

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

REFERENCES

- Professor Ekhleif Tarawneh was President of The University of Jordan (U.J.) from 2012 to 2016. E-mail: ek_ [tarawneh@yahoo.com](mailto:ek_tarawneh@yahoo.com)
- Prof. Azmi Mahafzahv was the President of The University of Jordan (U.J.) from 2016 to 2018. E-mail: mahafzaa@ju.edu.jo
- Prof. Nadim Obaid is the former King Abdullah II School for Information Technology dean at The University of Jordan. E-mail: nadim@ju.edu.jo
- Prof. Fawaz Al-Zaghoul is the former King Abdullah II School for Information Technology dean at The University of Jordan. E-mail: fawaz@ju.edu.jo
- Prof. Ahmad Shariah is the former King Abdullah II School for Information Technology dean at The University of Jordan. E-mail: sharieh@ju.edu.jo