

# **Amjad Ahmad Hudaib**

**Professor of Software Engineering**

**Department of Computer Information Systems  
The University of Jordan**



## **1. Personal Information:**

Name: **Amjad**  
Surname: **Hudaib**  
Date of birth: **28/8/1969**  
Nationality: **Jordanian**  
Marital status: **Married**  
Mobile: **+962 777635255**  
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King Abdullah II School of Information Technology  
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- The University of Jordan Website:  
<http://eacademic.ju.edu.jo/ahudaib/default.aspx>
- Google Scholar Website:  
[https://scholar.google.com/citations?hl=en&user=WezwTlcAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=WezwTlcAAAAJ&view_op=list_works&sortby=pubdate)

## **2. Academic Qualifications:**

- Degree: **Ph.D. In Computer Science / Software Engineering**  
University: **University of Pisa, Pisa, Italy**  
Date: **May 2003**
- Degree: **MSc. in Computer Science**  
University: **The University of Jordan, Amman, Jordan**  
Grade: **Excellent**  
Date: **January 2000**
- Degree: **BSc. in Computer Science**  
University: **Mutah University, Mutah, Jordan**  
Grade: **Very Good**  
Date: **January 1991**

### **3. Summary of Professional Experience:**

#### **3.1 Administrative Positions:**

<b>Position</b>	<b>Place</b>	<b>Country/ City</b>	<b>Period</b>
<b>Dean of the King Abdullah II School of Information Technology</b>	The University of Jordan	Jordan / Amman	<b>2018-2020</b>
<b>Head of the Department of Computer Information Systems</b>	The University of Jordan	Jordan / Amman	<b>2017- 2018</b>
<b>Director of Accreditation and Quality Assurance Center</b>	The University of Jordan	Jordan / Amman	<b>2009- 2014</b>
<b>Head of the Department of Computer Information Systems</b>	Department of Computer Information Systems, King Abdullah II School of Information Technology, The University of Jordan	Jordan / Amman	<b>2004 –2008</b>
<b>Assistant Dean for Laboratories Affairs</b>	King Abdullah II School of Information Technology, The University of Jordan	Jordan / Amman	<b>2003 – 2004</b>

#### **3.2 Academic Positions:**

<b>Position</b>	<b>Place</b>	<b>Institution- City/ Country</b>	<b>Period</b>
<b>Professor</b>	Department of Computer Information Systems King Abdullah II School of Information Technology	The University of Jordan Amman/ Jordan	2016- now
<b>Associate Professor</b>	Department of Computer Information Systems King Abdullah II School of Information Technology	The University of Jordan Amman/ Jordan	August 2009- December 2016
<b>Associate Professor</b>	Department of Computer Science and Department of Software Engineering Information Systems King Hussein Faculty of Computer Sciences	Princess Sumaya University for Technology Amman/ Jordan	September. 2015- September, 2016.  (Sabbatical Leave)
<b>Associate Professor</b>	Department of Computer Information Systems King Abdullah II School of Information Technology	The University of Jordan Amman/ Jordan	August, 2009-  September,2015
<b>Assistant Professor</b>	Department of Computer Information Systems King Abdullah II School of Information Technology	The University of Jordan Amman/ Jordan	July, 2003 - August, 2009

<b>Teaching Assistant</b>	Department of Computer Science	The University of Jordan Amman/ Jordan	1995 - 2000
<b>Teaching Assistant</b>	Department of Computer Science	Mutah University Karak/Jordan /	1993-1995

### **3.3 Technical Positions:**

<b>Position</b>	<b>Place</b>	<b>Country/ City</b>	<b>Period</b>
<b>-Project manager - System analyst - Programmer</b>	<b>Computer Center Mutah University</b>	<b>Jordan / Karak</b>	<b>1993-1995</b>
<b>-Project manager - System analyst - Programmer</b>	<b>Free Lancer, Different Companies</b>	<b>Jordan /Amman</b>	<b>1991-1993</b>

### **4. Language Skills:**

Mother tongue: **Arabic**

Other languages:

<b>Language</b>	<b>Understanding</b>	<b>Speaking</b>	<b>Writing</b>
<b>English</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>
<b>Italian</b>	<b>Very Good</b>	<b>Very Good</b>	<b>Very Good</b>

### **5. Research Intrests:**

- Software Engineering, Software Architectural Design, Requirements Engineering, Pattern Matching, Systems Engineering and Tools, Software Testing and Evaluation, Optimization Algorithms, Data Mining Artificial Intelligence Techniques, Project Management, Quality Assurance.

## 6. International Funded Projects:

Project title	Sponsored by	Description and Objectives
<b>- Joint Programs and Framework for Doctoral Education in Software Engineering</b>	ERASMUS+ project number 561577-EPP-1-2015-1-FI-EPPKA2-CBHE-JP-ERASMUS+ CBHE	Joint Programs and Framework for Doctoral Education in Software Engineering /
<b>- EQTeL</b>	TEMPUS project number 544491-TEMPUS-1-2013-1-ES-TEMPUS-SMGR	Enhancing Quality of Technology-Enhanced Learning at Jordanian Universities
<b>-RecoNow</b>	TEMPUS project: RecoNow - ENPI South: Knowledge of recognition procedures in ENPI South countries	<ul style="list-style-type: none"> <li>-Favouring and increasing the quality of vertical and horizontal mobility within Middle East and European higher education systems</li> <li>- Strengthen competencies and skills for recognition of European and Middle East qualifications among European and Middle East institutions</li> <li>-Defining common practices and tools among European and Middle East institutions in order to foster recognition</li> </ul>
<b>- Expert Fast Fuzzy Clustering System</b>	The University of Jordan	The main concept of this research is to come out with an enhanced algorithm that depends on fuzzy logic to increase the performance of clustering processes, so that it can come out with results with the least possible time.
<b>- ODISEAME</b>	European Economic Community	ODISEAME is a Euro-Mediterranean network for higher education institutions that will co-operate together in the creation and distribution of electronic contents for educational purposes. <a href="http://www.odiseame.org/">http://www.odiseame.org/</a>
<b>- STRABON</b>	European Economic Community	Strabon is a Euro-Mediterranean project that began in 2002 with <i>Cultural Heritage and Tourism</i> as its theme. It is part of the Eumedis Sector 3 initiative of the European Commission. <a href="http://www.strabon.org/">http://www.strabon.org/</a>
<b>- DEGAS</b>	European Economic Community	Design Environments for Global Applications. <a href="http://www.omnys.it/degas/">http://www.omnys.it/degas/</a>
<b>- SAHARA</b>	Italian Project	Software Architectures for Heterogeneous Access Networks Infrastructures. <a href="http://sahara.di.univaq.it/">http://sahara.di.univaq.it/</a>
<b>- SALADIN</b>	Italian Project	Software Architectures and Languages for Distributed and Mobile Components . <a href="http://www.di.unipi.it/~monta/SALADIN/">http://www.di.unipi.it/~monta/SALADIN/</a>

## 7. Consultations and Committee Memberships:

2018-2020	Member of The University of Jordan Deans Board.
2018-2020	Head of the King Abdulla II School of Information Technology Board.
2018-2020	Member of the eLearning Comity at the University of Jordan.
2018-2020	Head of the eLearning committee at the King Abdulla II School of Information Technology. Its responsibility it to manage and operate the eLearning at the University of Jordan.
2012-2020	Member of the Quality Assurance Board at the University of Jordan.
2018-2020	Member of the Information Technology Center Board at the University of Jordan.
2004- Present	Head and Member of different accreditation and quality assurance committees for the <b>Higher Education Accreditation Commission</b> , for accrediting various IT programs at different universities such as Yarmouk University, Jordan University for Science and Technology, The Hashemite University, Alalbait University, Princess Sumaya University for Technology, Al-Ahliyya Amman University, Al Zaitonah Private University, Al Zarqa University, Petra University and Philadelphia University.
2004- Present	Head and Member of different accreditation and quality assurance committees for <b>Ministry of Higher Education and Scientific Research</b> in Jordan. Such as: Committees to accredit CIS and CS programs at different universities in Jordan
2009-2015	Head and Member of different committees at The University of Jordan, Amman, Jordan. Such as: - Accreditation committees for all Faculties at The University of Jordan. - Strategic Planning Committee for Planning and Quality Assurance Center. - Steering committee for International Academic Ranking at The University of Jordan.
2013-2014	Member of University Actuarial committee
2012-present	Member of The Accreditation and Quality Assurance Council at The University of Jordan
2013-2014	eLearning steering committee at The University of Jordan
2003- Present	Head and Member of different committees at King Abdullah II School of Information Technology, and The University of Jordan, Amman , Jordan.
2012 –2014	Member of eLearning Committee

2016-2020	Member of the Qualifying Examination for Ph.D. Students Committee.
Jan. 2013, Nov. 2014	Member of The University Hospital Health Information System Evaluation Committee
2010-2014	Member of The University Website Committee
2011-2014	Member of Anti Plagiarism Implementation Committee
2005-2006	Member of University Board
2010-2014	Member of The Curriculum Committee (For all majors of the UoJ)
2012-2014	Member of The University Jobs Descriptions Committee
2012-2014	Member of The University Hierarchy Committee
2003- Present	Program committee Member for different regional and international conferences.
2003- Present	Program committee Member for different regional and international conferences.
2004-Present	Head and Member of different Examination committees at the Civil Services Department, Amman, Jordan.
2010-Present	Steering committee for the International Arab Conference for Quality Assurance in the Higher Education

## 8. Publications:

### - Indexed Refereed International Scientific Journal Papers

1. Mais Haj Qasem, Nadim Obeid, **Amjad Hudaib**, Mohammed Amin Almaiah, Ali Al-Zahrani, Ahmad Al-Khasawneh, (2021), *Multi-Agent System Combined With Distributed Data Mining for Mutual Collaboration Classification*, IEEE Access, Vol. 9, PP. 70531-70547. DOI: 10.1109/ACCESS.2021.3074125 (May, 2021).
2. Nabeel Al-Milli, **Amjad Hudaib**, Nadim Obeid, (2021), *Population Diversity Control of Genetic Algorithm Using a Novel Injection Method for Bankruptcy Prediction Problem*, Mathematics, Vol 9, Issue 8, PP. 823, <https://doi.org/10.3390/math9080823> (April, 2021).
3. Sarah E Shukri, Rizik Al-Sayyed, **Amjad Hudaib**, Seyedali Mirjalili, (2021), *Enhanced Multi-Verse Optimizer For Task Scheduling in Cloud Computing Environments*, Expert Systems with Applications, Vol. 168, PP. 114230. <https://doi.org/10.1016/j.eswa.2020.114230> (April, 2021).
4. Sandi N Fakhouri, **Amjad Hudaib**, Hussam N Fakhouri, (2020), *Enhanced Optimizer Algorithm And Its Application to Software Testing*, Journal of Experimental & Theoretical Artificial Intelligence, Vol. 32, Issue 6, PP. 885-907. (November 2020).

5. Fakhouri, H. N., **Amjad Hudaib**, and Sleit, A. Hybrid Particle Swarm Optimization with Sine Cosine Algorithm and Nelder–Mead Simplex for Solving Engineering Design Problems. *Arabian Journal for Science and Engineering*, 1-19, 2020.
6. Fakhouri, H. N., **Hudaib, A.**, and Sleit, **A.** *Multivector particle swarm optimization algorithm*. *Soft Computing*, 1-19, **2019**.
7. Hussam N Fakhouri, **Amjad Hudaib**, Azzam Sleit, (2020), *Hybrid Particle Swarm Optimization With Sine Cosine Algorithm And Nelder–Mead Simplex For Solving Engineering Design Problems*, *Arabian Journal for Science and Engineering*, Vol. 45, Issue 4, PP. 3091-3109. <https://doi.org/10.1007/s13369-019-04285-9> (January, 2020).
8. Hussam N Fakhouri, **Amjad Hudaib**, Azzam Sleit, (2019), *Multivector Particle Swarm Optimization Algorithm*, *Soft Computing*, Vol.24, PP. 11695–11713. <https://doi.org/10.1007/s00500-019-04631-x> , ( December, 2019).
9. Mais Haj Qasem, **Amjad Hudaib**, Nadim Obeid, (2019), *Multiagent System For Mutual Collaboration Classification For Cancer Detection, Mathematical Problems in Engineering*, Vol. 2019, PP.1-17. <https://doi.org/10.1155/2019/2127316> (December, 2019).
10. Salsabeel FM Alfalah, Jannat F Falah, Nadia Muhaidat, **Amjad Hudaib**, Diana Koshebye, Sawsan AlHourani, *Virtual Reality Learning Environment In Embryology Education, International Journal of Educational and Pedagogical Sciences*, Vol. 13, Issue 12, PP. 1461-1464. ISNI:0000000091950263, (November 2019),
11. Salam Hamdan, **Amjad Hudaib**, Arafat Awajan, (2019). *Detecting Sybil Attacks in Vehicular Ad Hoc Networks*, *International Journal of Parallel, Emergent and Distributed Systems*, Vol. 36, PP. 69-79 (May 2019).
12. Khalid K Adhim, **Amjad Hudaib**, Bashar Al-Shboul, (2019). *Efficient Requirement Prioritization Based On Enhanced Multi-Verse Optimizer*, *Journal of Theoretical And Applied Information Technology*, Vol. 97, Issue 19, pp 4966-4977. E-ISSN: 1817-3195, (October ,2019).
13. **Amjad Hudaib**, Layla Albdour, (2019), *Fog Computing to Serve the Internet of Things Applications: A Patient Monitoring System*, *International Journal of Fog Computing (IJFC)*, Vol. 2, Issue 2. Pp 44-56. DOI: 10.4018/IJFC.2019070103, (June, 2019).
14. **Amjad Hudaib**, Afaf Edinat, Bara'a Alhammad, (2019), *A Survey On Security Patterns And Their Classification Schemes*, *International Journal of Advanced Engineering Research and Science*, Vol. 6, pp 79-90. (2019)
15. Hijazi, S., and **Hudaib, A.**, *Verification Of Web Content Integrity: Detection And Recovery Security Approach Using Colored Petri Nets*. *International Journal of Computer Network and Information Security*, 9(10), 1, **2018**

16. Masadeh, R., **Hudaib, A.**, and Alzaqebah, A., *WGW: A Hybrid Approach Based On Whale And Grey Wolf Optimization Algorithms For Requirements Prioritization*. Advances in Systems Science and Applications, 18(2), 63-83., **2018**
17. **Amjad Hudaib**, Mohammad Khanafseh, and Ola Surakhi, *An Improved Version of K-medoid Algorithm using CRO*, Modern Applied Science; Vol. 12, No. 2; pp. 116-127, 2018. doi:10.5539/mas.v12n2p116. **2018**.
18. **Amjad Hudaib**, Mohammad Khanafseh, and Ola Surakhi, *An Improved Version of K-medoid Algorithm using CRO*, Modern Applied Science; Vol. 12, No. 2; pp. 116-127, 2018. doi:10.5539/mas.v12n2p116. **2018**.
19. **Amjad Hudaib**, Saad AL-Azzam, *A Simple and Inexpensive 3D Scanning of Remote Objects by Robot*, Modern Applied Science, Vol. 12, No. 4, pp. 171-177. DOI: <https://doi.org/10.5539/mas.v12n4p171>, **2018**.
20. **Amjad Hudaib**, Raja Masadeh, Mais Haj Qasem, Abdullah Alzaqebah, *Requirements Prioritization Techniques Comparison*, Modern Applied Science, Vol. 12, No. 2, pp. 62-80. DOI: <https://doi.org/10.5539/mas.v12n2p62>, **2018**.
21. **Amjad A. Hudaib**, and Ahmad K. AL Hwaitat, *Movement Particle Swarm Optimization Algorithm*, Modern Applied Science, Vol.12, No.1, pp. 148-164, Doi: <https://doi.org/10.5539/mas.v12n1p148>, **2018**.
22. Raja Masadeh, Abdullah Alzaqebah, **Amjad Hudaib**, *Grey Wolf Algorithm for Requirements Prioritization*, Modern Applied Science, Vol. 12, No. 2, pp. 45-61, DOI: <https://doi.org/10.5539/mas.v12n2p54> , **2018**.
23. **Amjad A. Hudaib** and Hussam N. Fakhouri , *Supernova Optimizer: A Novel Natural Inspired Meta-Heuristic*, Modern Applied Science, Vol. 12, No. 1, pp.32-50, Doi:10.5539/mas.v12n1p32, **2018**.
24. **Amjad Hudaib**, Qasem M.H., Obeid N., *FIPA-Based Semi-centralized Protocol for Negotiation*. Advances in Intelligent Systems and Computing (AISC), Vol. 661. Springer, PP. 135-149, **2018**.
25. **Amjad Hudaib**, Mohammad Alsharaideh, Ola Surakhi, Mohammad Khanafseh, *A Survey on Design Methods for Secure Software Development*, International Journal of Computer and Technology, Vol. 16, No. 7, PP. 7047-7063, **2017**.
26. **Amjad A. Hudaib**, Hussam N. Fakhouri, Fatima Eid Al Adwan, Sandi N. Fakhouri, *A Survey about Self-Healing Systems (Desktop and Web Application)*, Communications and Network, Vol. 9, No. 1, pp. 71-88, **2017**.



27. **Amjad Hudaib**, Dima Suleiman, Arafat Awajan, *A Fast Pattern Matching Algorithm Using Changing Consecutive Characters*, Journal of Software Engineering and Applications (JSEA), Vol. 9, No. 8, **2016**.
28. **Amjad Hudaib**, Ammar Huneiti, Islam Othman, *Software Reusability Classification and Prediction Using Self Organizing Map (SOM)*, Communications and Network (CN). Vol. 8, No. 3. **2016**.
29. **Amjad Hudaib**, Hussam N. Fakhouri, Rawan Ghnemat, *New Methodology For Microarray Spot Segmentation And Gene Expression Analysis*, Scientific Research and Essays, Vol. 11 (12), pp. 126-134, **2016**.
30. **Amjad Hudaib**, Hussam N. Fakhouri, *An Automated Approach for Software Fault Detection and Recovery*, Communications and Network (CN). Vol. 8, No. 3. Pp.158-169, 2016.
31. Osama Rababah, Thair Hamtini, Hussam Fakhouri, **Amjad Hudaib**, Ahmad Hwaitat, *Theoretical Framework for Social Network Marketing Base on Genetic Algorithm*. Scientific Research and Essays, Vol. 11 (3), pp. 23-28, **2016**.
32. **Amjad Hudaib**, Fawaz Al-zaghoul, Maha Saadeh, Huda Saadeh, *ADTEM-Architecture Design Testability Evaluation Model to Assess Software Architecture Based on Testability Metrics*, Journal of Software Engineering and Applications (JSEA), Vol. 8, No. 4, pp. 201-210, 2015.
33. **Amjad Hudaib**, Riham Dannon, Osama Harfoushi, Ruba Obiedat, Hussam Faris, *Hybrid Data Mining Models For Predicting Customer Churn*, International Journal of Communications, Network and System Sciences (IJCNS), Vol.8, No.5, pp. 91-96, 2015.
34. **Amjad Hudaib**, Rola Al-Khalid, Aseel Al-Anani, Mariam Itriq, Dima Suleiman, *Four Sliding Windows Pattern Matching Algorithm (FSW)*, Journal of Software Engineering and Applications, Vol.8, No. 3, pp. 154-165, 2015.
35. Dima Suleiman, Mariam Itriq, Aseel Al-Anani, Rola Al-Khalid, **Amjad Hudaib**, *Enhancing ERS-A Algorithm for Pattern Matching (EERS-A)*, Journal of Software Engineering and Applications, Vol. 8, No.3 , pp.143-153, 2015.
36. **Amjad Hudaib**, Mohammad Alnabhan, Osama Harfoushi, Ruba Obiedat, Omar Adwan, Waed Adham, *Emerging Trends of Outsourcing Business to Cloud Computing Services: A Perspective Study Support*, Communications and Network, Vol.6, No.1, pp. 1-8, 2014.
37. Ghadeer Ghazal, **Amjad. Hudaib** and Waffa Maitah, *Software Architectural Patterns for Service Composition*, International Journal of Computer Science & Information Technology (IJCSIT), Vol. 6, No. 4, pp.31-45, 2014.

38. O. Adwan, A. M. Huneiti, M.B. Al- Zoubi, **A. Hudaib**, T. Hamtini, *Simple Image Watermarking Method Using Wavelet Transform*, Australian Journal of Basic and Applied Sciences, Vol. 9, No. 17, pp. 98-101, 2014.
39. **Amjad Hudaib**, F. Al Zaghoul, J Al Widian, *Investigation of Software Defects Prediction Based on Classifiers (NB, SVM, KNN and Decision Tree)*, Journal of American Science, 9 (12), pp.381-386, 2013.
40. D. Suleiman, **Amjad Hudaib**, A. Al-Anani, R. Al-Khalid, M. Itriq, *ERS-A Algorithm for Pattern Matching*, Middle East Journal of Scientific Research 15 (7), 1067-1075, 2013
41. O Adwan, **Amjad Hudaib**, HN Fakhouri, LM Alnemer, *Microarray Gene Expression Extraction and Archiving Based on Local Spot Locations*, International Journal of Computer Science Issues (IJCSI) 10 (6), pp.203-208, 2013.
42. Mariam Itriq, **Amjad Hudaib**, Aseel Al-Anani, Rola Al-Khalid, Dima Suleiman, *Enhanced Two Sliding Windows Algorithm For Pattern Matching (ETSW)*, Journal of American Science, 8 (5), pp.607-616, 2012.
43. Thair Hamtini, **Amjad A. Hudaib**, *Measuring E-Learning Web-based Application Usability*, International Review on Computers and Software (IRECOS), Vol. 7 No. 1, pp.67-73, 2012.
44. S. Al-Areqi, **Amjad Hudaib**, N Obeid, *Improving Availability in Distributed Component-Based Systems via Replication*, Challenges for Intelligent Information, Springer, Vol. 351, pp. 43-52, 2011.
45. Rizik M. H. Al-Sayyed, **Amjad Hudaib**, Muhannad Al-Shboul, Yousef Majdalawi, Mohammed Bataineh, *Automated Assessment, Face to Face*, International Journal of Emerging Technologies in Learning (iJET), Vol.5, No. 3, 2010.
46. **Amjad Hudaib**, Khalid Kaabneh, Mohamad Qatawneh, *Modified On-Demand Multicasting Routing Protocol for Ad Hoc Networks*, WSEAS Transactions on Information Science and Applications, Vol. 6, Issue 2, pp. 147-158, 2009.
47. **Amjad Hudaib**, Rola Al-Khalid, Dima Suleiman, Mariam Itriq and Aseel Al-Anani, *A Fast Pattern Matching Algorithm with Two Sliding Windows (TSW)*, Journal of Computer Science 4(5), pp. 393-401, 2008.
48. **Amjad Hudaib**, Bassam Hammo, and Yara ALKhader, *Systematic Development for Software Requirements Using Natural Language Techniques*, WSEAS Transactions on Computer Research, Issue 2, Vol. 2, pp. 255- 261, 2007.

49. Suhad Hajjara, Moussa Abdallah, **Amjad Hudaib**, *Digital Image Watermarking Using Localized Biorthogonal Wavelets*, European Journal of Scientific Research, Vol. 26, No.4, pp.596-610, 2009
50. Fawaz A. M. Masoud, Qataweh Mohammad, Wesam Almobaideen, Azzam Sleit, **Amjad Hudaib**, Alshraideh Mohammad, Nabil Abu Hashish, Oraib Megdady, Shatha Al-Asir, Shorouq AlAdaileh. *Interactive RPC Binding Model*, European Journal of Scientific Research, Vol. 27, No. 1, pp. 112-119, 2009.
51. Moh'd Belal Al- Zoubi, **Amjad Hudaib**, Ammar Huneiti and Bassam Hammo, *New Efficient Strategy to Accelerate k-Means Clustering Algorithm*, American Journal of Applied Sciences, 5(9), pp.1247-1250, 2008.
52. Moh'd Belal Al- Zoubi, **Amjad Hudaib**, and Bashar Al-Shboul. *A Proposed Fast Fuzzy C-Means Algorithm*, WSEAS Transactions on Systems, Issue 6, Volume 6, pp. 1191-1196. June 2007.
53. Emad Abuelrub, Mahmoud Al Wadi, **Amjad Hudaib**, and Fawaz Al-Zaghoul. *Analytical Study of the Jordanian Accreditation Standards for Information Technology Programs*, Journal of Human Sciences. Issue 30, 2007. (In Arabic)

## **- International Conferences**

1. Fakhouri, H. N., **Hudaib, A.**, & Sleit, A. *Hybrid Particle Swarm Optimization with Science Cosine Algorithm and Mathematical Equations for Enhancing Robot Path Planning*. In International Conference on Information, Communication and Computing Technology (pp. 226-236). Springer, Cham., 2019
2. **Hudaib, A.**, & Alhaj, F. *Self-Organizing Maps for Agile Requirements Prioritization*. In 2019 2nd International Conference on new Trends in Computing Sciences (ICTCS) (pp. 1-5). IEEE., 2019
3. Abuqaddom, I., Alazzam, H., **Hudaib, A.**, & Al-Zaghoul, F. *A measurable website usability model: Case Study University of Jordan*. In 2019 10th International Conference on Information and Communication Systems (ICICS) (pp. 83-87). IEEE., 2019
4. Abuqaddom, I., & **Hudaib, A.** *Cost-Sensitive Learner on Hybrid SMOTE-Ensemble Approach to Predict Software Defects*. In Proceedings of the Computational Methods in Systems and Software (pp. 12-21). Springer, Cham, 2018
5. Rawashdeh, E. F., Abuqaddom, I. I., & **Hudaib, A. A.** *Trust models for services in cloud environment: A survey*. In 2018 9th International Conference on Information and Communication Systems (ICICS) (pp. 175-180). IEEE., 2018

6. Alzaqebah, A., Masadeh, R., & Hudaib, A. ***Whale optimization algorithm for requirements prioritization.*** In 2018 9th International Conference on Information and Communication Systems (ICICS) (pp. 84-89). IEEE., 2018
7. **Amjad Hudaib**, Mais Haj Qasem, Nadim Obeid, (2017), FIPA-Based Semi-centralized Protocol for Negotiation, Proceedings of the Computational Methods in Systems and Software, pp. 135-149. **2017.**
8. Sherin Hijazi, and **Amjad Hudaib**, Using Petri Nets to Verify Design Model: A Survey, 4th Annual Conf. on Computational Science & Computational Intelligence (CSCI'17), Las Vegas, Nevada, USA, December **2017.**
9. Dyana Rashid Ibrahim, Rawan Ghnemat, and **Amjad Hudaib**, Software Defect Prediction Using Feature Selection and Random Forest Algorithm, Proceedings of The International Conference on new Trends in Computing Sciences (ICTCS 2017), PP. 252-258, Princess Sumaya University for Technology, Amman, Jordan, October, **2017.**
10. Raneem Qaddoura, Alaa Abu-Srhan, Mais Haj Qasem, and **Amjad Hudaib**, Requirements Prioritization Techniques Review and Analysis, Proceedings of The International Conference on new Trends in Computing Sciences (ICTCS 2017), PP. 258-264, Princess Sumaya University for Technology, Amman, Jordan, October, 2017.
11. Raghda Hraiz, Mariam Khader , Mostafa Z. Ali , **Amjad Hudaib**, Evaluating the Performance of “Derandomized-LSHade” Algorithm on CEC 2014 Benchmark Functions. Proceedings of The International Conference on new Trends in Computing Sciences (ICTCS 2017), PP. 36-42, Princess Sumaya University for Technology, Amman, Jordan, October, 2017.
12. Fawaz Al-Zaghoul, **Amjad Hudaib**, Raneem Qaddoura, Mais Haj Qasem, Alaa Abu-Srhan, A Weighted Framework for Process Model Selection, 30th International Conference on Computer Applications in Industry and Engineering (CAINE 2017), October 2-4, 2017, San Diego, California, USA, pp 193-198.
13. **Amjad Hudaib**, Qasem M.H., Obeid N. (2018), FIPA-Based Semi-centralized Protocol for Negotiation. In: Silhavy R., Silhavy P., Prokopova Z. (eds) Cybernetics Approaches in Intelligent Systems. CoMeSySo 2017. Advances in Intelligent Systems and Computing (AISC), vol 661. Springer, Cham.
14. Dima Suleiman com Marwah Alian, **Amjad Hudaib**, A Survey on Prioritization Regression Testing Test Case, 2017 8th International Conference on Information Technology (ICIT), pp.854-862, May 2017. Jordan.
15. **Amjad Hudaib**, Dima Suleiman, Arafat, Awjan, (2016), Dynamic Berry Ravindran Algorithm for Pattern Matching (DBR), 16th International Conference on Applied Computer Science (ACS '16), Istanbul, Turkey. 2016.

16. Mariam Khader, Ali Hadi, **Amjad Hudaib**, Covert Communication Using Port Knocking, Cybersecurity & Cyberforensics Conference, The University of Jordan, August 2016, Amman, Jordan.
17. Mariam Biltawi, Wael Etaiwi, Sara Tedmori, **Amjad Hudaib**, Arafat Awajan, (2016), Sentiment Classification Techniques for Arabic Language: A Survey. International Conference on Information and Communication Systems (ICICS), Irbid,–Jordan, 2016.
18. Marwah Alian, **Amjad Hudaib**, (2016) Towards Adaptive Hybrid Optimization Technique, International Computer Sciences and Informatics Conference (ICSIC), Amman- Jordan, 2016.
19. Fawaz Al-Zaghoul, **Amjad Hudaib**, Mohammad Abo Shariah, and Assal Alqudah, *A suggested Framework for Software Requirements Specification*, UKSim 2015 - 17th International Conference on Mathematical/Analytical Modeling and Computer Simulation, Cambridge University, 2015.
20. Fawaz Al-Zaghoul, **Amjad Hudaib**, Majdi Ahed, *Software Engineering Education in Jordan*, 6th International Computer Science and Information Technology (CSIT), 2014.
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25. Bassam Hammo, **Amjad Hudaib**, Ammar Huneiti, and Moh'd Belal Al-Zoubi. **Preparing Jordanian Teachers to Face the Challenges in Applying Information and Communication Technology in Education**. The MIT Learning International Network Consortium (MIT LINC 2007), Dead Sea, Jordan, 2007.

26. Y. Alkhader, **Amjad Hudaib**, and B. Hammo. **Experimenting With Extracting Software Requirements Using NLP Approach.** IEEE International Conference on Information and Automation (ICIA2006), Colombo, Sri Lanka, pp. 349-354, December 2006.
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28. Moh'd Belal AL-Zobi, **Amjad Hudaib**, and Bashar Al-Shboul. **A Fast Fuzzy Clustering Algorithm.** Proceedings of the 6th WSEAS Int. Conf. on Artificial Intelligence, Knowledge Engineering and Data Bases, Corfu Island, Greece, pp. 28-32, 2007
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30. Majed A. Yahya, Fawaz A. M. Masoud, and **Amjad Hudaib**, **The Effects of Software Development Environment on Software Cost Estimation**, Proceedings of the 10<sup>th</sup> World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2006), Volume 1, Orlando, USA, pp. 239-243, 2006.
31. Hussam Ud-Din Ihmaidi, Ahmed Al-Jaber, and **Amjad Hudaib**. **Securing Online Shopping Using Biometric Personal Authentication and Steganography.** IEEE 2nd International Conference on Information & Communication Technologies From Theory to Applications (ICTTA'06), Damascus, Syria, 2006.
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33. **Amjad Hudaib** and C. Montangero. **A UML Profile to Support the Formal Presentation of Software Architecture.** 26th IEEE Annual International Computer Software and Applications Conference COMPSAC 2002, Oxford, England, pp. 217-223, 2002.
34. **Amjad Hudaib**, and C. Montangero. **On the Mapping of Oikos\_adtl to UML.** II Workshop progetto SALADIN, L'Aquila -Roma, Italy, February 2002.
35. **Amjad Hudaib**, and C. Montangero. **Formal Patterns for Secure Software Architectures in Oikos\_adtl.** Workshop Su Sistemi Distribuiti: Algoritmi, Architetture e Linguaggi WSDAAL 2001. Como, Italy September 2001.

### **- Book Chapter**

- Inas abugaddom, **Amjad Hudaib**, Cost-Sensitive Learner on Hybrid SMOTE-Ensemble Approach to Predict Software Defects, In book: Computational and Statistical Methods in Intelligent Systems, Editors Radek Silhavy, Petr Silhavy and Zdenka Prokopova. Springer. PP. 12-22, DOI: 10.1007/978-3-030-00211-4\_2, 2018.
- Samih Al-Areqi, **Amjad Hudaib** and Nadim Obeid, *Improving Availability in Distributed Component-Based Systems via Replication*, Studies in Computational Intelligence, Volume 351, New Challenges for Intelligent Information and Database Systems, Springer, pp. 43-52, 2011.

### **- Workshops**

- **Amjad Hudaib**, *eLearning: Tools and Technologies*, Amman Arab University, August, 2010. Amman, Jordan.
- **Amjad Hudaib**, *Tools and Methodologies of eLearning*, The First International Arab Conference on Quality Assurance in Higher Education, May, 2011. Amman, Jordan.
- **Amjad Hudaib**, *The International Standards for eLearning*, Philadelphia University, May 2011. Amman, Jordan.

### **- Books**

- Moh'd Belal Al- Zoubi, Ahmad Sharieh , **Amjad Hudaib** and Khalida Al-Zoubi, *Computer Skills 2*, Third edition. Darwaeel, Amman, Jordan, 2007. (1st edition in 2006).
- Moh'd Belal Al- Zoubi, Ahmad Sharieh , **Amjad Hudaib** and Khalida Al-Zoubi, *Advanced Computer Skills* , Third edition. Zamzam, Amman, Jordan, 2011.

### **- PhD. Thesis:**

- **Amjad Hudaib**. Formal Description of Software Architecture Patterns: The Asynchronous Case, Ph.D. Thesis.TD-6/03, Dipartimento di Informatica, Università di Pisa, May 2003.

### **- M.Sc. Dissertation:**

- **Amjad Hudaib**. *Techniques for Handwritten Recognition Using Neural Network and Neuro-Fuzzy System*, Master degree dissertation, Computer Science Department, The University of Jordan, Amman, Jordan, September 1999.

## **9. Awards:**

- ITSAF, Supervisor of the Best Graduation Project, ITSAF- Petra University, Amman, Jordan, 2007.
- WINNERS, 2006 United Arab Emirates, UAE EDUCATIONAL IT CHALLENGE: Supervisor of the Best College or University Student Project. UAE.
- The University of Jordan Scholarship for a Ph.D. in Computer Science/ Software Engineering, at University of Pisa, Italy, 2000-2003.
- The University of Jordan Scholarship for a M.Sc. in Computer Science at The University of Jordan, Jordan 1998-2000.

## **10. Teaching Experience**

### **1- Graduate Level Courses (Master & Ph.D)**

- Software Engineering (Ph.D.)
- Selected Topics in Software Engineering (Ph.D.)
- Research Methodology (Ph.D.)
- Software Engineering (Master)
- Software Verification and Validation (Master)
- Object Oriented Modelling (Master)

### **2- Undergraduate Level Courses**

- Software Engineering
- Advanced Software Engineering
- Project Management
- Systems Analysis and Design
- Database management systems
- Theory of Algorithms and Algorithms Design
- Introduction to Computer Science
- Software Engineering and Documentation
- Interpersonal Communication and Documentation
- Software Documentation
- Systems Development and Analysis
- Computer Skills
- Graduation project

### **3- High Diploma Level Courses**

- Developing and Integrating E-Government Information Systems
- Security for Information Systems
- Graphic Design
- Web Development



## **11. External and Internal Examiner:**

- Internal Examiner (PdD, Msc. Students and Graduation Projects):
  - **The University of Jordan**
- External Examiner (Ph. D. and Msc. Students):
  - **Princess Sumaya University for Science and Technology**
  - **Jordan University for Science and Technology**
  - **Philadelphia University**
  - **Al Albait University**
  - **Zarqa University**
  - **Arab Academy for Finance and Banking Sciences**

## **12. Supervision (PhD. M.Sc and Graduation Projects):**

- 2004-Present    Supervisor (Main supervisor and Co-supervisor)  
More than 10 PhD Student and More than 40 Msc.  
Department of Computer Information Systems  
King Abdullah II School of Information Technology  
The University of Jordan
- 2004-Present    Supervisor: More than 90 Graduation Projects  
King Abdullah II School of Information Technology  
The University of Jordan.