

Curriculum Vitae (updated 25/12/2018)

Dr. Mousa AL-Akhras, BSc, MSc, PhD, Senior MIEEE

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Specialization: Computer Science / Artificial Intelligence & Multimedia Networking

Academic Qualifications:

August 2007 **Ph.D.** in Computer Science
Major: Communications and Neural Networks
De Montfort University, UK, <http://www.dmu.ac.uk>
Thesis Title: Quality of Media Traffic over Lossy Internet Protocol Networks:
Measurement and Improvement.
NB: I've developed many techniques based on Artificial Neural Networks and Genetic Algorithms.
Supervisors: Professor Hussein Zedan and Professor Robert John

June 2003 **M.Sc.** in Computer Science, Average 3.81 / 4.
The University of Jordan, <http://www.ju.edu.jo>
Thesis Title: Instance Reduction Using Techniques for Building Ensembles of Classifiers
Supervisor: Dr. Khalil El-Hindi

January 2000 **B.Sc.** in Computer Science, Average 3.35 / 4
The University of Jordan, <http://www.ju.edu.jo>
Graduation Project: Part of a team of 3 members developed Banking System using Developer R2.1 2000 Forms and Reports

1996 General Secondary Education Certificate Exam Scientific Branch, Average 91.2%

Academic Posts

24/08/2014–Present	Associate Professor + Coordinator for Master in Information Security Program College of Computation and Informatics Saudi Electronic University, Riyadh, Kingdom of Saudi Arabia
10/12/2012–Present (On Unpaid Leave)	Associate Professor Department of Computer Information Systems King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan
17/10/2007–9/12/2012	Assistant Professor Department of Computer Information Systems King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan
2010-2014	Arab Open University – Jordan Branch - Part time Assistant and Associate Professor
12/2009–11/2010	Assistant Dean for Development and Computer Affairs, Faculty of Graduate Studies, The University of Jordan, Amman, Jordan
10/2004–02/2005	Tutor - De Montfort University, UK
08/2003–01/2004	The University of Jordan - Teaching Assistant
06/2003–08/2003	Philadelphia University, Jordan - Part-Time Lecturer
10/2002–06/2003	Amman Private University – Lecturer Teaching Introduction to Computer (Skills-1) and Programming Language (1), C++ Course.

Industrial Experience

<p>08/2002 – 09/2002</p>	<p>ESKADENIA SOFTWARE SOLUTIONS, www.eskadenia.com- Consultant agreement for a single project. http://hotels.mota.gov.go Business: This is a website for MOTTA (Ministry of Tourism and Antiques). The purpose of this website was to develop an automated web site to collect information about hotels' reservations and fulfilment in hotels across Jordan. This Ministry previously was collecting that information manually. Each hotel has an ID and Password to log on to his profile and enter the hotels information on a monthly basis. The entered information is processed automatically by the new system and set of reports were generated on the web using Crystal report. Implementation: ASP was used for website development and while Crystal Reports used to prepare the summary and analysis reports. MS-SQL 2000 was the backbone database.</p>
<p>05/2001 – 08/2002</p>	<p>3TierFactory Software Solutions, www.3TierFactory.com -System Analyst and Senior VB Developer Projects:</p> <ol style="list-style-type: none"> 1. Accounting System: <ol style="list-style-type: none"> a. Developing a trusted accounting package for the local market for middle to large size companies. b. Careful design for the system for ease of use and good understand of functionality from the end user's perspective. c. This is the core system where other systems can be integrated with. 2. Inventory/Stores System: <ol style="list-style-type: none"> a. This system can be integrated with the accounting system. b. This system used to manage the stock items in the stores, and to produce the stocks sales reports. 3. Car Show System: <ol style="list-style-type: none"> a. The system is used to manage the cars expenses and sales. b. This system can be integrated with the accounting system. 4. Repair Parts and Maintenance System: <ol style="list-style-type: none"> a. This system is used to manage the maintenance process and the parts repair schedule. b. Set of reports is generated to report about the available machines, repair parts, total maintenance's expenses for the machines and other set of reports 5. News Papers' Ads and Invoice System: I worked as a team coordinator in this project and helping in testing some parts of the system <p>Technology:</p> <ol style="list-style-type: none"> 1. VB 6.0 was used as the Programming language. 2. Sql Server 2000 Database. 3. InterBase Open source/ Free of License/ light weighted Database is used as the backend database. 4. Crystal Reports was used as the reporting tool in various systems.
<p>02/2000 – 04/2001</p>	<p>Integrant Inc, www.integrantinc.com - Quality Assurance, team coordinator, analyst and database developer in many projects.</p> <p>Projects:</p> <ol style="list-style-type: none"> 1. http://www.CitizensAdvantage.Com, web application with Oracle Backbone Database Business: The purpose of this project was to provide the facility for online loan submitting with immediate verification and approval or rejection through the connectivity with Zoot Credit Reporting Bureau through XML message exchange. Implementation: The project has two major parts: The first part was implemented using ASP/VB with VB Script and JavaScript with 3 tiers Architecture and this part available for public via the above web site and The Second part implemented using Oracle 8i forms and Reports with remote access using Oracle application server 2. NAGS Systems, National Auto Glass Systems Business: The purpose is to administrate common database accessible from other systems. Implementation: The project implemented using Developer 2000. 3. http://www.HTRN.Org , Web project to announce for meeting schedules and announcements of the HTRN Business group

Professional Membership, Editorial Board, Organizing and Technical Committees

1. External Verifier, Saudi Skills Standards (SSS), 2018 External Verification Program for Colleagues of Excellence.
2. Head of Steering Committee of ACM Programming Contest, Jordanian Collegiate Programming Contest (JCPC) <http://jordan.acmacpc.org/>. Part of International Collegiate Programming Contest <http://icpc.baylor.edu/> 2011 - 2014.
3. Member of the Editorial Board:
 - Saudi Electronic University Journal.
 - Communications, Science Publishing Group (SciencePG).
 - International Journal of Intelligent Information Processing - ISSN 2093-1964.
 - Advanced Electrical & Electronics Engineering and Scientific Journal (AEEESJ)
 - IET Teknologia Journal.
4. Guest Editor for International Journal of Information Technology and Web Engineering (IJITWE), Volume 7, Issue 2, 2012.
5. Guest Editor for International Journal of Information Technology and Web Engineering (IJITWE), Volume 9, Issue 4, October-November 2014.
6. IEEE
 - IEEE Senior Member (15/02/2014-Present).
 - IEEE Member (01/01/2009-14/2/2014).
 - Member of IEEE Computational Intelligence Society (CIS) (01/01/2010–Present).
 - Member of IEEE Robotics and Automation Society (RAS) (01/01/2010–31/12/2014).
 - IEEE Western Saudi Arabia Section Executive Committee Member – (26/02/2015–Now)
 - IEEE Western Saudi Arabia Section – Secretary (26/02/2015–22/6/2016).
 - IEEE Western Saudi Arabia Section – Secretary (12/09/2017–Now).
 - IEEE Jordan Section Executive Committee Member – Different roles as below (01/01/2010–31/5/2014)
 - Chair IEEE Jordan Computational Intelligence/Computer Joint Chapter (22/2/2012–4/5/2014).
 - Vice Chair IEEE Jordan Computational Intelligence/Computer Joint Chapter (02/08/2010–21/02/2012).
 - IEEE Jordan Section – Secretary General Activities (01/01/2010–31/12/2013).
 - IEEE Jordan Professional Activities Officer in Jordan (04/09/2011–31/5/2014).
 - e-Government, IEEE Computer Society Technical Community on (16/02/2014–Present).
 - Proctor for the teams participating in IEEEExtreme:
 - i. 2012 – 2013, The University of Jordan
 - ii. 2015 - 2016, Saudi Electronic University
 - iii. 2018, King Abdulaziz University
7. Keynote Speaker
 - 2019 2nd International Conference on Computer Applications & Information Security (ICCAIS) Holiday Inn Izdehar area, Riyadh, Saudi Arabia, 19-21 March, 2019. **The Role of Artificial Intelligence in Health Informatics: A Systematic Literature Review.**
8. Technical committee and peer reviewer for the following conferences:
 - 2019 2nd International Conference on Computer Applications & Information Security (ICCAIS) Holiday Inn Izdehar area, Riyadh, Saudi Arabia, 19-21 March, 2019
 - Technical Program Committee + Reviewer – The Third International Saudi Health Informatics Conference (ISHIC), 17-21 November, 2018, Riyadh, KSA.
 - Technical Program Committee – 2018 International Conference on Industrial Internet of Things and Smart Manufacturing (IoTsm), September 5-6, 2018, London, United Kingdom.
 - Technical Program Committee – 1st International Conference on Computer Applications & Information Security 2018 (ICCAIS-18), April 4-6, 2018, Riyadh, Saudi Arabia.

- Reviewer - International Conference on Internet of Things, Embedded Systems and Communications (IINTEC 2017), 20-22 October, 2017, Gafsa, Tunisia.
- Reviewer - The Fourth IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2017), 11-13 October, 2017, Amman, Jordan.
- International Conference on Computer and Applications (ICCA'17), Dubai, United Arab Emirates, September 06-07, 2017.
- The International Conference on Computer Science and Information Technology (CSIT 2016), Amman, Jordan, 13 - 14, July, 2016.
- International Forum on Knowledge Asset Dynamics (IFKAD 2016) - Track Innovative Business Analytics in the Era of Big Data: Behavioral Trend Discovery Using Computer Intelligence, Dresden, Germany, 15-17 June, 2016
- 2015 IEEE 81st Vehicular Technology Conference: VTC2015-Spring, 11-14 May 2015, Glasgow, Scotland.
- The 7th International Conference of Computer Science and Information Technology (CSIT 2015), 18-19, March, 2015, Applied Science University, Amman, Jordan.
- The 8th IEEE GCC Conference & Exhibition, 1-4, February, 2015, Muscat, Oman.
- International Program committee, The Fifth International Symposium on Innovations in Information & Communications Technology (ISIICT 2014), 22-24 April, 2014, Philadelphia University, Amman, Jordan.
- International Program Committee Member - The 6th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2014), 7-9, April 2014 Bangkok Thailand.
- 2013 1st International Conference & Exhibition on the Applications of Information Technology to Renewable Energy Processes and Systems (IT-DREPS 2013), 29-30 May 2013, Amman, Jordan.
- The fourth International Conference on Information and Communication Systems (ICICS'13), 23-25 April 2013, Irbid, Jordan.
- The 3rd International Conference on Computing and Artificial Intelligence (MIC-CAI2013), 5-7 April 2013, Belgrade, Serbia.
- The First International Conference on Communications, Signal Processing, and their Applications (ICCSPA'13), Sharjah, UAE, February 12-14, 2013.
- Intelligent Systems and Knowledge Engineering (ISKE) track of the 5th International Conference on Communications, Computers and Applications (MIC-CCA2012), Istanbul, Turkey, 12-14 October 2012.
- 2012 International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC 2012), 10-12 October, 2012, Sanya, China.
- International Workshop on Advances in Data Management (ADM-2012) - co-located with International Conference on Advances in Computing, Communications and Informatics (ICACCI-2012), 3 - 5 August, 2012, Chennai, India.
- Computational Biosciences (CBS) track of Mosharaka International Conference on Biomedical Engineering, Electronics and Nanotechnology (MIC-BEN2012), Palma de Mallorca, Spain, 15-17 June 2012.
- International Arab Conference on e-Technology (IACeT'2012), 25-27 April, 2012, Zarqa University, Zarqa, Jordan.
- Industrial Automation and Embedded Systems track of 8th International Symposium on Mechatronics and its Applications, Sharjah, United Arab Emirates, April 10-12, 2012.
- Control, Robotics and Automation (CRA) track of Mosharaka International Conference on Power Engineering, Control and Mechatronics (MIC-PCM2012), 6-8 April 2012, Barcelona, Spain.
- International Program Committee - The Fourth IEEE International Symposium on Innovation in Information & Communication Technology (ISIICT 2011), 29 November- 1 December, 2011, Philadelphia University, Amman, Jordan.
- The Seventh International Multi-Conference on Systems, Signals & Devices (SSD'10), 27-30 June, 2010, Amman, Jordan.
- International Arab Conference on e-Technology, October 15-16, 2008, Amman, Jordan.
- The Fifth International Multi-Conference on Systems, Signals, and Devices, IEEE SSD'08, July, 2008, Amman, Jordan.

9. Technical committee & Reviewer for the following journals:
 - JMIR Medical Informatics – JMIR
 - Autosoft Journal - TSI Press
 - Neural Computing & Applications – Springer.
 - Journal of Intelligent & Fuzzy Systems – IOS Press.
 - Computer Methods and Programs in Biomedicine – Elsevier.
 - Computers & Electrical Engineering – Elsevier.
 - IET Wireless Sensor Systems (WSS).
 - The International Arab Journal on e-Technology, ISSN 1997-6364, Arab Open University.

10. Organizing Committee for the following conferences
 - Technical Committee – Saudi Electronic University International Conference on Blended, November, 2017, Riyadh, Saudi Arabia.
 - Program Committee - International Conference on new Trends in Computing Sciences 11-13 October, 2017 Amman-Jordan
 - Program Committee - New Trends in Information Technology – 2017 (NTIT-2017), Amman, Jordan, April 25-27, 2017.
 - Publicity & Public Relations - The Third IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2015), 3-5 November, 2015, Amman, Jordan.
 - Technical Program Chair - The Second IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2013), 3-5 December, 2013, Amman, Jordan.
 - Publication Chair -2013 1st International Conference & Exhibition on the Applications of Information Technology to Renewable Energy Processes and Systems (IT-DREPS 2013), 29-30 May 2013, Amman, Jordan.
 - IEEE Jordan Professional Activities Summit, PA, October 2012, The Hashemite University, Zarqa, Jordan.
 - Steering Committee + Publications Chair + Intelligent Systems Track Chair- The IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2011), 6 - 8 December, 2011, Amman, Jordan.
 - IEEE Jordan Professional Activities Summit, PA, November 2011, The University of Jordan, Amman, Jordan.
 - Third Mosharaka International Conference on Communications, Networking and Information Technology (MIC-CNIT 2009), December 2009, Amman, Jordan.

11. Microsoft Academic Partner (Formerly known as Dot Net Advisor) – The University of Jordan (1/9/10-1/9/2012).

12. Consultant, Judge and Mentor for the following contests:
 - 2013 NYUAD Annual Hackathon: Building Apps for Social Good in the Arab World, Abu Dhabi, United Arab Emirates, 22-24 February, 2013. **Mentor.**
 - The Second F1 in Schools National Competition 2012 Amman, Jordan 12 May 2011. **Chief Judge.**
 - The 7th National Robot Programming Contest, Amman, Jordan 11-12 February 2012.
 - The First F1 in Schools National Competition 2011 Amman, Jordan 28 May 2011.
 - The First Lego League Arabia Championship 2010 Dead Sea, Jordan 13-14 March 2010.
 - The 1st First Lego League Arabia Championship, Dead Sea, Jordan 27-29 March 2009.
 - The 4th National Robot Programming Contest, Dead Sea, Jordan 3-4 December 2008.

13. Organizing committee for the following contests:
 - Head of Steering committee – The Second Universities Robotics Competition (URC 2013), 27-28/2/2013, The University of Jordan, Amman, Jordan.
 - First Universities Robotics Competition (URC'1), 9-10 May 2011, Philadelphia University, Amman, Jordan.

14. Other Committees:

- Higher Education Committee - Services Development Master Plan for the years (2012-2015) in line with the Jordanian National Agenda (2006-2015)- cooperation with Jordan Enterprise Development Corporation (JEDCO).
- Innovation and Technology Transfer Committee - Services Development Master Plan for the years (2012-2015) in line with the Jordanian National Agenda (2006-2015)- cooperation with Jordan Enterprise Development Corporation (JEDCO).

Funded Research Projects (Visits)

1. Saudi Electronic University (SEU). An Energy-Efficient Communication System (EECS) for Wireless Sensor Networks in Medical Applications. 1/2/2017-2/2/2018. Amount 94,200 SR
2. Deutsche Forschungsgemeinschaft (DFG). Analyzing the Effect of Packet Loss and Speech Enhancement Methods on the quality of Voice over IP (VoIP) Traffic. Research visit to Frankfurt University of Applied Sciences, Frankfurt, Germany. 24/7/2014-20/8/2014.
3. King Abdullah II Fund for Development (KAFFD) + King Abdullah II Design and Development Bureau (KADDB) - Fleet Management and Optimal Route Planning using GIS Techniques and Cellular Networks, 2013. Amount 5000 JD
4. The University of Jordan - Deanship of Academic Research (DAR). HeliRobot: A prototype was built for flying robot using Lego NXT, 2011. Amount 500 JD
5. The University of Jordan - Deanship of Academic Research (DAR). Robot Library Assistant System: A prototype was built for a library assistant robot using Lego NXT, 2010. Amount 500 JD

Prizes - Awards

1. 2018 – 2nd MENA Information Security Conference 2018 – Cyber Sabers Hackathon - 3rd Place.
2. 2016 – 1st Saudi National Programming Contest (NCCC), King Abdulaziz University, Jeddah, Saudi Arabia, 17-18/2/2016, 6th place Male (overall) - Abdulrahman Albatel, Ali Alenazy, Meshal Alajmi.
3. 2016 – 1st Saudi National Programming Contest (NCCC), King Abdulaziz University, Jeddah, Saudi Arabia, 17-18/2/2016, 2nd Place Female Team (11th overall) -Dalal Joban, Buthaynah Tahhan, Sondos Altalhi.
4. 2014 ACM Jordanian Collegiate Programming Contest (ICPC-JCPC), Applied Sciences University (ASU)-4th + 5th Places out of 93 teams, 31/10-1/11/2014. Students. Ahmad Borghul, Ahmad Abu Laban, and Saif Suliman. Rodwan Abu Odeh, Diaa Ayad And Abdullah Alian.
5. IEEE Jordan Section Active volunteer Award – Award Given by Jordan Section and presented by IEEE President (Prof. J. Roberto Boisson de Marca) during the section's annual meeting on 28/1/2014.
6. 2013 ACM Jordanian Collegiate Programming Contest (ICPC-JCPC), Applied Sciences University (ASU)-2nd Place, 15-16/11/2013. Students. Ahmad Borghul, Ahmad Abu Laban, and Saif Suliman.
7. The Second Universities Robotics Competition (URC 2013), 27-28 February 2013 The University of Jordan, Amman, Jordan — **Ball Collection 1st Place**. Lina Qasem + Lana Ezzidien+ Tala Ibrahim.
8. The Second Universities Robotics Competition (URC 2013) , 27-28 February 2013 The University of Jordan, Amman, Jordan — **Sumo Robot Game 3rd Place**. Dana AlMajaly, Dania Daoud.
9. The University of Jordan Distinguished Researcher Award for the year 2011.
10. 2012 ACM Jordanian Collegiate Programming Contest (ICPC-JCPC), Princess Sumaya University for Technology (PSUT)-3rd Place, 16-17/11/2012. Students. Yazan Dabain, Omran AlAmayreh, and Ethar Abu Awwad.
11. Proctor for the team that achieved the 31st ranking in the world out of 1941 teams- IEEEExtreme Programming challenge, 20/10/2012. Students. Mohammad Natsheh, Yazan Dabain, and Omran AlAmayreh.
12. Nominated for Ministry of Higher Education and Scientific Research – Scientific Research Support Fund. Prize for distinguished researcher in IT sector in Jordan over the years 2007-2011.

13. Middle East Technology Show 2011 (METS'11)-University Competition-3rd Place. Delta Robot Project. Tariq Abu Lebdeh+Lina Qasem+Majd Sabbah.
14. First Jordanian Universities Robotics Competition (URC'1), 9-10 May 2011, Philadelphia University, Amman, Jordan – **Sumo Robot Game Best Design 1st Place**. Abullah Qurashi+Yazan Kobari.
15. First Jordanian Universities Robotics Competition (URC'1), 9-10 May 2011, Philadelphia University, Amman, Jordan – **Sumo Robot Game Overall 3rd Place**. Osama Abu Qaoud +Ali Hussein+Lina Qasem.
16. First Jordanian Universities Robotics Competition (URC'1), 9-10 May 2011, Philadelphia University, Amman, Jordan – **Maze Robot - Best Programming 1st Place**. Tariq Abu Lebdeh.
17. First Jordanian Universities Robotics Competition (URC'1), 9-10 May 2011, Philadelphia University, Amman, Jordan – **Maze Robot - Overall 3rd Place**. Tariq Abu Lebdeh.
18. Second Lego League Arabia Championship, 13-14 March 2010, Dead Sea, Jordan – **Scientific Exhibition 1st Place Award**. Bara'a Imran.
19. 1st First Lego League Arabia Championship, 27-29 March 2009, Dead Sea, Jordan – **Audience Voting 1st Place Award**. Noor Jaber-Rawan Abu Zaid-Robot Library Assistant.
20. 1st First Lego League Arabia Championship, 27-29 March 2009, Dead Sea, Jordan – **Proof of Concepts Award**. Noor Jaber-Rawan Abu Zaid-Robot Library Assistant.

Research Interests

Network Security and Cryptography

Multimedia Networking: Voice over IP & Quality of Speech Aspects, IPTv

Artificial Intelligence:

Robotics, Artificial Neural Networks (ANN), Genetic Algorithms (GA), Fuzzy Logic (FL)

Learning Methodologies

Electronic Learning (E-Learning), Mobile Learning (M-Learning)

Database Systems

Publications:

Scopus Author Identifier: 25653537100,

Researcher ID: O-6204-2016

ORCID: orcid.org/0000-0002-2208-372X

HCST National Researcher number (<http://resn.hcst.gov.jo>): **8132**

International Journals

1. Iman Almomani, Bassam Al-Kasasbeh and **Mousa AL-Akhras**, "WSN-DS: A Dataset for Intrusion Detection Systems in Wireless Sensor Networks," *Journal of Sensors - Special Issue on Recent Advances in Security and Privacy for Wireless Sensor Networks*, 2016.
2. Iman Almomani, Eman Al-Banna, and **Mousa AL-Akhras**, "Logic-Based Security Architecture for Systems Providing Multihop Communication," *International Journal of Distributed Sensor Networks*, vol. 2013, doi:10.1155/2013/768489
3. Khalil El Hindi and **Mousa AL-Akhras**. Smoothing Decision Boundaries to Avoid Overfitting in Neural Network Training. *Neural Network World (ISSN 1210-0552)*, Vol. 21, Issue 4, pp. 311-325, 2011.
4. Iman ALMomani, Mohammed Al-Saruri, and **Mousa AL-Akhras**. Secure Public Key Exchange against Man-In-The-Middle Attacks during Secure Simple Pairing (SSP) in Bluetooth. *World Applied Sciences Journal (ISSN 1818-4952, EISSN 1991-6426)*, Vol. 13, Issue 4, pp. 769-780, 2011.
5. **Mousa AL-Akhras**, Mohammad O. Salameh, Maha K. Saadeh, and Mohammed A. ALAwairdhi. An Autonomous Fuzzy-controlled Indoor Mobile Robot for Path Following and Obstacle Avoidance. *International Journal of Computers (ISSN 1998-4308)*, Vol. 5, Issue 3, pp. 387-395, 2011.
6. Iman ALMomani, Maha Saadeh, **Mousa AL-Akhras**, and Hamzeh AL Jawawdeh. A Tree-Based Power Saving Routing Protocol for Wireless Sensor Networks. *International Journal of Computers and Communications (ISSN 2074-1294)*, Vol. 5, Issue 2, pp. 84-92, 2011.
7. **Mousa AL-Akhras**, Abdullatif Abu-Dalhoum, Heba Saadeh and Heyam Bader. A Genetically-Optimised Artificial Neural Network Approach for Automatic Detection of Blood Vessels Using

- Gabor Filter. *The Mediterranean Journal of Computers and Networks* (ISSN 1744-2397), Vol. 7, Issue 2, pp. 202-212, April 2011.
8. **Mousa AL-Akhras**, Iman ALMomani and Azzam Sleit. An Improved E-Model Using Artificial Neural Network VoIP Quality Predictor. *Neural Network World* (ISSN 1210-0552), Vol. 21, Issue 1, pp. 3-26, 2011.
 9. **Mousa AL-Akhras**, Rizik Al-Sayyed, Marwah Alian and Doaa Qwasm. *Innovative Secure Mobile Banking Services*. *International Journal of Interactive Mobile Technologies (iJIM)* (ISSN 1865-7923), Vol. 5, Issue 1, pp. 12-21, January, 2011.
 10. Moh'd Belal Al-Zoubi, Ali Al-Dahoud and **Mousa AL-Akhras**. *An Efficient Fuzzy K-Medoids Method*. *World Applied Sciences Journal* (ISSN 1818-4952, EISSN 1991-6426), Vol. 10, Issue 5, pp. 574-583, 2010.
 11. **Mousa AL-Akhras**, Mohammed Alawairdhi and Dana Beidas. *Search in Multimedia Databases Using Similarity Distance*. *International Journal of Intelligent Information Processing* (ISSN 2093-1964), Vol. 1, Issue 1, pp. 50-60, September, 2010.
 12. **Mousa AL-Akhras**, Maha Saadeh. *Automatic Valuation of Jordanian Estates Using A Genetically-Optimised Artificial Neural Network Approach*. *WSEAS TRANSACTIONS on SYSTEMS* (ISSN 1109-2777), Vol. 9, Issue 8, pp. 905-916, August 2010.
 13. **Mousa AL-Akhras**, Heyam Bader and Abdullatif Abu-Dalhoum. *Genetic Algorithm Gabor Filter Optimisation for Automated Detection of Blood Vessels from Digital Retinal Images*. *DIRASAT- Pure Sciences* (ISSN 1560-456X), Vol. 37, Issue 2, pp. 67-84, August, 2010.
 14. Azzam Sleit, **Mousa AL-Akhras**, Inas Juma, Marwah Alian, *Applying Ordinal Association Rules for Cleansing Data With Missing Values*, *The Journal of American Science* (ISSN 1545-1003), Vol. 5, Issue 3, pp. 52-62, June, 2009.
 15. **Mousa T. AL-Akhras** and Iman M. ALMomani, *Design and Implementation of a SIP-based E-Learning System*. *International Journal of Internet Education (IJIE)* (ISSN 1687-6482), Vol. 4, pp. 78-91, July 2009.
 16. **M. AL-Akhras**, H. Zedan, R. John, I. ALMomani, *Non-intrusive speech quality prediction in VoIP networks using a neural network approach*, *Neurocomputing* (ISSN 0925-2312), 72 (2009), pp. 2595-2608.

International Conferences

1. Badr Aleidi, Abdulaziz Albeshar, **Mousa AL-Akhras**, Using Blockchain Technology to Validate the Integrity and Confidentiality of Backups Versions on the Cloud, *Proceeding of Al Yamamah Information and Communication Technology Forum YUICT*, King Fahd National Library, Riyadh, KSA, 4-5 March, 2018. ISBN: 978-603-02-6751-4.
2. Zainab Darwish, **Mousa AL-Akhras**, Mohamed Habib, Use Filtering Techniques to Improve The Accuracy of Association Rules, 2017 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), 11-13 October, 2017, Amman, Jordan..
3. Khalid Al Medbel, **Mousa AL-Akhras** and Hitham Alqadheeb, e-Health Information Security: Threats and Security Risks Assessment in Hospitals in Saudi Arabia, The Second International Saudi Health Informatics Conference (ISHIC), 16-20 April, 2017, Riyadh, KSA.
4. **Mousa AL-Akhras**, Ala' Barakat and Mohamed Habib, Using Support Vector Machine to Diagnose Glaucoma Disease, The Second International Saudi Health Informatics Conference (ISHIC), 16-20 April, 2017, Riyadh, KSA.
5. **Mousa AL-Akhras**, The Effect of Robotics Platforms on the Educational Performance of Undergraduate University Students, The First Arab Robotics Conference, 14-16 October, 2012, Amman, Jordan.
6. Iman ALMomani, **Mousa AL-Akhras**, Internet Skills in Scientific Research - In Arabic (مهارات استخدام الإنترنت في البحث العلمي), The Fifth Conference On Scientific Research in Jordan, 19 November, 2011, Amman, Jordan.
7. **Mousa AL-Akhras**, Maha Saadeh, Emad AL Mashakbeh, Heba Saadeh. Path Following and Obstacle Avoidance Fuzzy Controller for Mobile Indoor Robots. The 11th WSEAS International Conference on Robotics, Control and Manufacturing Technology (ROCOM '11), 8-10 March, 2011, Venice, Italy. ISBN: 978-960-474-283-7.
8. Iman Al Momani, Maha Saadeh, Hamzeh Al Jawawdeh, **Mousa AL-Akhras**. Energy Awareness Tree-Based Routing Protocol for Wireless Sensor Networks. The 10th WSEAS International Conference on

- Applied Computer and Applied Computational Science (ACACOS '11), 8-10 March, 2011, Venice, Italy. ISBN: 978-960-474-281-3.
9. **Mousa AL-Akhras** and Omar Daoud. Evaluating The NGN Performance Based On Duplicate Transmission Of Voice Packets. *Seventh International Multi-Conference on Systems, Signals & Devices (SSD'10)*, Vol. III: *The Conference on Communication & Signal Processing*, 27-30 June, 2010, Amman, Jordan. ISBN: 978-9973-959-25-6.
 10. **Mousa AL-Akhras**, Khaled Daqrouq, and Abdul Rahman Al-Qawasmi. Perceptual Evaluation of Speech Enhancement. *Seventh International Multi-Conference on Systems, Signals & Devices (SSD'10)*, Vol. III: *The Conference on Communication & Signal Processing*, 27-30 June, 2010, Amman, Jordan. ISBN: 978-9973-959-25-6.
 11. Marwah Alian and **Mousa AL-Akhras**. AdaLearn: An Adaptive E-Learning Environment. *The 2010 International Conference on Intelligent Semantic Web - Services and Applications (ISWSA 2010)*, 14-16 June, 2010, Amman, Jordan. ISSN 2218-1504. Proceedings ISBN: 978-1-4503-0475-7.
 12. **Mousa AL-Akhras**. An Evolutionary-Optimised Artificial Neural Network Approach for Automatic Appraisal of Jordanian Lands and Real Properties. The 11th WSEAS International Conference NEURAL NETWORKS (NN'10), 13-15 June, 2010, Iasi, Romania. ISBN: 978-960-474-195-3. ISI
 13. Iman Al-Momani, Asma' Abdel Aziz and **Mousa AL-Akhras**. Secure and Power Saving Routing Protocol For Wireless Sensor Networks. The 11th WSEAS International Conference on FUZZY SYSTEMS (FS'10), 13-15 June, 2010, Iasi, Romania. ISBN: 978-960-474-195-3. *ISI*
 14. Heyam Bader, **Mousa Al-Akhras**, and Abdullatif Abu-Dalhoum, Improved Detection of Blood Vessels From Digital Retinal Images Using Optimised GABOR Filter, The 3rd Mosharaka International Conference on Communications, Computers and Applications (MIC-CCA 2009), 26-28 October, 2009, Amman, Jordan. ISBN: 978-9957-48607-5
 15. **Mousa AL-Akhras** and Khalil El Hindi, Function Approximation Models for Non-Intrusive Prediction of VoIP Quality. *IADIS International Conference on Informatics (I 2009) - Special Session on Telecommunications, Networks and Systems 2009 (TNS 2009)*, 17-19 June, 2009, Algarve, Portugal. ISBN: 978-972-8924-86-7.
 16. Khalil El Hindi and **Mousa AL-Akhras**, Eliminating Border Instance to Avoid Overfitting. *IADIS International Conference Intelligent Systems and Agents 2009 (ISA 2009)*, 21-23 June, 2009, Algarve, Portugal. ISBN: 978-972-8924-87-4.
 17. Mohammed Alawairdhi, Hongji Yang, **Mousa AL-Akhras**, BlueCRM: A New Trend of Customer Relationship Management Systems, *12th IEEE International Workshop on Future Trends of Distributed Computing Systems, 2008. FTDCS '08*, pp.226-232, 21-23 Oct. 2008, China. ISBN: 978-0-7695-3377-3.
 18. **Mousa AL-Akhras**, Wesam Almobaideen, Kareem Hdairis, Abdullah Al-Jaouni and Rami Al-Zeer, Remote conferencing using SIP protocol stack and Java APIs. *The 7th International Internet Education Conference & Exhibition (ICT-Learn 2008)*, 7-9 October, 2008, Cairo, Egypt.
 19. **Mousa Al-Akhras**, A Genetic Algorithm Approach for Voice Quality Prediction, *The 5th International Multi-Conference on Systems, Signals, and Devices, IEEE SSD'08*, Vol. III: *The Conference on Communication & Signal Processing*, 20-23 July, 2008 Amman, Jordan. ISBN: 978-9973-959-07-2.
 20. I. Almomani and **M. Al-Akhras**, Statistical Speech Quality Prediction in Voice over IP Networks, *The 2008 International Conference on Communications in Computing (CIC'8): 14-17 July, 2008*. Monte Carlo Resort, Las Vegas, Nevada, USA. ISBN: 1-60132-058-2, pp. 146-152. *Scopus*.
 21. **M. AL-Akhras** and H. Zedan, Quality Estimation for Streamed VoIP Services, in *The 2nd European Young Researchers Workshop on Service Oriented Computing*, Leicester, UK, 11-12 June 2007.

Books

1. **Mousa AL-Akhras**, Measuring the Quality of VoIP Traffic, ISBN-13 978-3-639-30581-4, ISBN-10: 3639305817, VDM Publishing House Ltd., Germany, 2010. *
2. **Mousa AL-Akhras** and Iman ALMomani, Internet Skills in Scientific Research, ISBN 978-9957-72-040-7, ZAMZAM publisher and distributor, Amman, Jordan, 2011.

Book Chapters

1. **Mousa AL-Akhras** and Iman ALMomani, VoIP Quality Assessment Technologies -Book: VoIP Technologies, edited by: Shigeru Kashihara, ISBN: 978-953-307-549-5, Publisher: InTech, Vienna, Austria. Publishing date: February 2011

Workshops

1. **Mousa AL-Akhras**, The use of Artificial Intelligence in Medical Problems, Medical Informatics and E-Learning Week, 23-24 April, 2018, King Saud University, Riyadh, KSA.
2. **Mousa AL-Akhras**, Advanced Research Workshop: Writing a manuscript, 14-15 April, 2018, King Saud University, Riyadh, KSA.
 - Writing up Results section: Result Interpretations and Presentations (Table, graphs, and diagrams).
 - Plagiarism and how to avoid doing so
3. **Mousa AL-Akhras**, Scientific Writing and Publishing, Journals Ranking and the Saudi Digital Library (SDL), 21 March 2018, Saudi Electronic University.
4. **Mousa AL-Akhras**, Web Applications Hacking: SQL Injection & Cross-Site Scripting, 15th Learning and Technology Conference (L&T 2018), 25-26 February, 2018, Effat University, Jeddah, KSA.
5. **Mousa AL-Akhras**, Data Mining, Winter Course on Research Methods: Using Data for Clinical Services and Patient Safety, 11-15 February, 2018, King Saud University, Riyadh, KSA.
6. **Mousa AL-Akhras**, Clinical Decision Support Systems, 24 January, 2018, King Saud University, Riyadh, KSA.
7. **Mousa AL-Akhras** and Fuad Alhosban, Scientific Writing and Publishing, Ranking of Journals (ISI impact factor) and Authors (H-Index) and the Saudi Digital Library (SDL) , The Second International Saudi Health Informatics Conference (ISHIC), 16-20 April, 2017, Riyadh, KSA.
8. **Mousa AL-Akhras**, **Tutorial** - Voice over IP - Technology & Challenges, *Mosharaka International Conference on Communications, Networking and Information Technology*, 5-7 December, 2008, Amman, Jordan.
9. **Mousa AL-Akhras**, Voice over IP (VoIP) - Tutorial, *Mosharaka International Conference on Communications, Computers and Applications*, 8-10 August, 2008, Amman, Jordan. ISBN: 978-9957-486-03-7.

Editor of the following Conferences Proceedings:

1. 2013 1st International Conference & Exhibition on the Applications of Information Technology to Renewable Energy Processes and Systems (IT-DREPS 2013), 29-30 May 2013, Amman, Jordan.
2. The IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2011), 6 - 8 December, 2011, Amman, Jordan.

Attended Conferences, Workshops, Training Courses with Certificates

Conferences

1. Cybersecurity: Future Challenge & Network Defenses, Workshop, King Saud University, Riyadh, Saudi Arabia, 12/3/2018 - **Attendant**.
2. Badr Aleidi, Abdulaziz Albeshir, **Mousa AL-Akhras**, Using Blockchain Technology to Validate the Integrity and Confidentiality of Backups Versions on the Cloud, Al Yamamah Forum on Telecommunications and Information Technology 2018, 4-5 March 2018, Riyadh, KSA – **Author**
3. 15th Learning and Technology Conference (L&T 2018), 25-26 February, 2018, Effat University, Jeddah, KSA - **Workshop**
4. 2017 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), 11-13 October, 2017, Amman, Jordan - **Author**
5. The Second International Saudi Health Informatics Conference (ISHIC), 16-20 April, 2017, Riyadh, KSA - **Author + Workshop**
6. Cybersecurity Capacity and Capability Building Research, Innovation and Education Perspective Symposium, King Saud University, Riyadh, Saudi Arabia, 15/3/2017 - **Attendant**.
7. Saudi Arabian High Performance Computing Conference and Exhibition, KACST, Riyadh. 19-21 April 2016 - **Attendant**.
8. The 1st National Computing Colleges Conference, 17-18 February 2016, Jeddah, Saudi Arabia – **Attendant**.
9. The Second International Conference for Assessment and Evaluation (Learning Outcome Assessment), 1-3 December 2015, Riyadh, Saudi Arabia – **Attendant**.

10. Blackboard Teaching and Learning Forum 2015 (Innovation and Education), 30 November, 2015, Riyadh, Saudi Arabia – **Attendant**.
11. The First Summit on Countering Cyber Crimes, Naif Arab University for Security Sciences (NAUSS), 27-29 October, 2015, Riyadh, Saudi Arabia - **Attendant**.
12. The Fifth Refereed Conference for Theses and Dissertations Research, Faculty of Graduate Studies, The University of Jordan, 16-17 April, 2014, Amman, Jordan. **Session Chair**.
13. The 11th WSEAS International Conference on Robotics, Control and Manufacturing Technology (ROCOM '11), 8-10 March, 2011, Venice, Italy. **Author**.
14. The 10th WSEAS International Conference on Applied Computer and Applied Computational Science (ACACOS '11), 8-10 March, 2011, Venice, Italy –**Author + Session Chair**.
15. ICT 2010, 27-29 September, 2010, Brussels, Belgium – **Attendant**.
16. The 7th International Multi-Conference on Systems, Signals & Devices (SSD'10), 27-30 June, 2010, Amman, Jordan –**Author + Session Chair**.
17. The 11th WSEAS International Conference on NEURAL NETWORKS (NN'10), 13-15 June, 2010, Iasi, Romania. - **Session Chair**.
18. The 11th WSEAS International Conference on FUZZY SYSTEMS (FS'10), 13-15 June, 2010, Iasi, Romania. - **Author**.
19. The 11th WSEAS International Conference on EVOLUTIONARY COMPUTING (EC '10), 13-15 June, 2010, Iasi, Romania. - **Attendant**.
20. The 3rd Mosharaka International Conference on Communications, Networking and Information Technology (MIC-CNIT 2009), 21-23 December, 2009, Amman, Jordan – **Attendant**.
21. Mosharaka 3rd International Conference on Communications, Computers and Applications (MIC-CCA 2009), 26-28 October, 2009, Amman, Jordan - **Session Chair**.
22. IADIS International Conference on Informatics (I 2009), June 17-19, 2009, Algarve, Portugal – **Author**.
23. IADIS International Conference on E-Learning (eL 2009), June 17-19, 2009, Algarve, Portugal – **Attendant**.
24. Mosharaka International Conference on Communications, Networking and Information Technology, 5-7 December, 2008, Amman, Jordan- **Tutorial Presentation**.
25. The 7th International Internet Education Conference & Exhibition (ICT-Learn 2008), 7-9 October, 2008, Cairo, Egypt - **Author**.
26. International Arab Conference on e-Technology, October 15-16, 2008, Amman, Jordan – **Session Chair**.
27. Mosharaka International Conference on Communications, Computers and Applications, 8-10 August, 2008, Amman, Jordan- **Session Chair + Tutorial Presentation**.
28. The 4th International Workshop on Advanced Computation for Engineering Applications (ACEA08), Al-Balqa Applied University - Salt, Jordan, July 23-24, 2008– **Attendant**.
29. The 5th International Multi-Conference on Systems, Signals, and Devices, IEEE SSD'08, 20-23 July, Amman, Jordan – **Author**.
30. The 2nd European Young Researchers Workshop on Service Oriented Computing, 2007, Leicester, UK – **Author**.

Staff Training Courses – with certificates (Saudi Electronic University)

Blackboard Course Instructor's Orientation Course	6 Weeks	10/9/2015- 19/11/2015
Blackboard Advanced	3 Days	26-28/4/2015
Cloud Computing	1 Day	23/4/2015
Blackboard Basic	2 Days	13-14/4/2015
Pearson Publisher	1 Hour	4/11/2014
Saudi Digital Library (SDL)	1 Hour	4/11/2014

Staff Training Courses – with certificates (The University of Jordan)

Design of Study Plan	6 Hours	15-16/1/2012
Teaching Strategies	12 Hours	17-22/1/2012
Effective Skills of University Teaching	12 Hours	23-26/1/2012
Learner's Assessment and Test Preparation	12 Hours	29/1-1/2/2012
Laws and Regulation of the University of Jordan	6 Hours	2-5/2/2012

Workshops and Training Courses- with certificates

National Commission For Academic Accreditation & Assessment (NCAAA) - Intended Learning Outcomes for Courses and Programs	12 Hours	11-12/2/2015
IEEE 2014 Volunteer Leadership Training Program		29/4/2014 – 14/11/2014
- IEEE Overview		
- IEEE Conferences		
- IEEE MGA Overview		
- IEEE Educational Activities Board (EAB)		
- Center for Leadership Excellence		
- Membership Development		
- IEEE Publications (PSPB)		
- IEEE Affinity Groups		
- IEEE Standards Association (SA)		
- IEEE Bylaws		
- IEEE Technical Activities (TAB)		
- IEEE USA Overview		
- How To Deal with Difficult People		
- Communication Skills Part I		
- The Ethics Dilemma		
- Communication Skills Leaders Swear By - Part II		
- SAMIEEE Overview		
- Financial Management		
- Communication Skills Part III		
- vTools Overview		
- Social Media		
- Net Suite		
- Meet IEEE President Elect		
IAJIT Openconf – Conference Management Software- Zarqa Private University – Jordan		-28/02/2008
Technology Transfer Policies for Developing Countries-Islamabad-Pakistan		-12-17/10/2009
Proposal Writing Workshop, Centre for Educational Development, UoJ		- 22/02/2010
MS Academic Partners Workshop		- 07/09/2011

Research Training Program - with certificates (De Montfort University, UK)

Typesetting Documents Using LaTeX	-05/04/2006
Creating and Managing Large Documents	-04/04/2006
Effective Presentation Using PowerPoint	-27/03/2006
Using SPSS	-10/03/2006
Finishing Your Thesis and Preparing for the Viva	-09/03/2006
Managing Data Using Excel	-23/02/2006
Written Application Skills and Job Interview Skills	-14/06/2005
Writing For Publication	-20/06/2005
Presenting Your Research to an Audience	-02/03/2005
Research Methods	-22/10/2004-23/10/2004
Literature Searching and Reference Management	-23/06/2004
English Language for Academic Research Purposes	-22/06/2004
Intellectual Property Rights and Ethics	-15/06/2004
Writing Skills	-24/05/2004
Planning and Managing Research	-02/05/2004
Research Students Induction Event	-29/03/2004

Other Workshops

Writing Proposal for FP7 People Programme, given by Mr. Leonardo Piccinetti, the University of Jordan.
13/4/2010.

Software Training Courses

Developer 2000 (Plsql, Forms4.5, Reports 2.5, Graphics 2.5), Aug -Oct 1998

ICDL

3DS

Online Learning Systems

Blackboard Collaborator

Adobe Connect

WizIQ

Committees

- **Saudi Electronic University (2014 – Present):**
 - Coordinator of the Master in Information Security Program.
 - Head of Research Committee
 - Member of website development Committee.
- **The University of Jordan (2007 – Present):**
 - Head of several tender committees.
 1. Head of Tender Committee – Tender Number 325/2007. Supply, installation, operation and maintenance of the new network infrastructure at the University of Jordan and Hospital.
 2. Head of Tender Committee – Tender Number 325/2007 **Variation Order**. Supply, installation, operation and maintenance of the new network infrastructure at the University of Jordan and Hospital.
 3. Head of Tender Committee – Tender Number 392/2008. Supply, installation, operation and maintenance of new security hardware for the University of Jordan Computer Center.
 4. Head of Tender Committee – Tender Number 392/2008. Putting new specifications and requirements for new security hardware for the University of Jordan Computer Center.
 5. Head of Tender Committee – Tender Number 38/2011. Supply, installation, operation and maintenance of the new wireless network infrastructure at the University of Jordan and Hospital.
- **The University of Jordan, King Abdullah II School for Information Technology, (2007 – Present):**
 - Ph.D. Program Admission Exam.
 - Member of ABET Accreditation Committee.
 - Member of the Scientific Research, Conferences, Seminars, and Expositions Committee.
 - Member of the e-Learning Committee.
 - Member of Scientific Week Committee.
 - Member of the Supervising committee on Students Union's elections.
 - Member of Faculty's Library Committee.
 - Member of Social Committee.
 - Member of Interaction with local society Committee.
- **The University of Jordan, Computer Information Systems Department, (2007 – Present):**
 - Member of the Scientific Research, Conferences, Seminars, and Interaction with local society Committee.
 - Member of the Higher Studies Committee.
 - Member of the Appointment and Promotion Committee.
 - Member of the M.Sc. Theses Examination Committees.
 - Member of Social Committee.
 - Member of the Training Committee.
 - Member of the Students Counselling Committee.
 - Member of the Curriculum Planning Committee which covers the study of:

- Computing Curricula 2005 which covers undergraduate programs in: Computer Engineering, Computer Science, Information Systems, Information Technology, and Software Engineering. This standard was a cooperative project between the Association for Computing Machinery (ACM), the Association for Information Systems (AIS), and the Computer Society (IEEE-CS).
- MSIS 2006: Model Curriculum and Guidelines for Graduate Degree Programs in Information Systems. This standard was a cooperative project between ACM and AIS.
- IS 2002 and IS 2010 Curriculum Guidelines for Undergraduate Degree Programs in Information Systems. This standard was a cooperative project between ACM, AIS, and Association of Information Technology Professionals (AITP).

Technologies

- PHP& MYSQL
- C#
- Java
- Visual Basic.Net
 - a. Building Desktop Financial Applications.
 - b. Web based Utilities and DLLs.
 - c. Working on Accounting, Inventory/Stores, Car Show System, and Repair Parts System.
- MATLAB®
- Active Server Pages (ASP.Net): Building Database web applications Projects with Oracle/SQL Server Back end database using 3-tier web architecture using MTS and IIS web server.
- SQL Server 2005, Interbase & Oracle:
 - a. Stored Procedures and Triggers.
 - b. Forms and Reports.
 - c. Database analysis and forward and reverse engineering.
- Crystal Reports:
- C++

Teaching & Training

Saudi Electronic University

Computer Networks – IT210
 Networks Management – IT340
 Operating Systems – IT241
 Decision Support Systems – IT445
 RES 500 Academic Writing and Research Skills – M.Sc. Level – RES500
 Effective Communication and Business Alignment of IT Initiatives - IT571
 Information Technology in the Global Enterprise - M.Sc. Level – IT573
 Ethical Considerations in Managing Information Technology - M.Sc. Level – IT581
 Enterprise Cyber Security – M.Sc. Level - CS562
 Cyber Defense in Web Based Attacks – M.Sc. Level - CS564
 Cyber Security Defence and Countermeasures - M.Sc. Level – CS664
 Advanced Principles of Cyber Security - M.Sc. Level – CS666
 Capstone - Information Security – CS699

The University of Jordan

Artificial Intelligence and Expert Systems - Ph.D. Level
 Artificial Intelligence and Expert Systems - M.Sc. Level
 Artificial Intelligence
 Database Management Systems
 Programming in Visual Basic.Net
 Distributed Systems
 Interpersonal Communication and Documentation

E-Government Graduation Project
Instructional Multimedia
Mathematics for Computer Graphics
Computational Theory
Special Topics (Voice over IP) – M.Sc. Level
Active Server Pages.Net
IT Fundamentals
Computer Skills-2

Arab Open University

Web Development using PHP and MySQL - M275
Networked living: Exploring Information and Communication technologies - T175B
Technologies for Digital Media – T325
Communication and Information Technologies (I) – T215A
Communication and Information Technologies (II) – T215B
Operating Systems Concepts – M350
Data, Computing and Information – A - M150A
Introduction to C# Programming – M107
Fundamentals of Algorithms and Data Structure – M211
Information and Communication Technologies: People and Interactions (I) – T209A
Information and Communication Technologies: People and Interactions (II) – T209B
Learning Online – TU170

Industry Training

Microsoft SQL Server 2016 Developer
Microsoft SQL Server 2016 Admin
Oracle Database: PL/SQL Fundamentals
UNIX, Linux Fundamentals
Creating and Managing Large Documents
Effective Presentation Using PowerPoint
Using SPSS – Basic + Advanced
Managing Data Using Excel
Comptia Security+ (Information Security Fundamentals)
Cryptography algorithms and mechanisms
Cybersecurity
Windows Security
Network Security
Critical Security Controls: Planning, Implementing and Auditing
Security System
IT Infrastructure as Code (IaC)
DevOps
Service-Oriented Architecture (SOA) Overview
AGILE
Software Engineering
WEB DEVELOPMENT Using HTML, CSS & XML
MySQL & PHP
AdobePresenter
Computer HW & SW Maintenance

أساسيات التعلم الإلكتروني
منهجيات تصميم محتويات التعليم الإلكتروني
تطبيق تعلم إلكتروني ناجح
الجودة في التعلم الإلكتروني
تحديد مؤشرات لضمان جودة التعليم الإلكتروني

تصميم محتويات رقمية باستخدام برنامج مقدم العروض MS-PowerPoint
 تصميم محتويات رقمية باستخدام برنامج مقدم العروض Prezi
 تصميم محتويات رقمية باستخدام برنامج Camtasia
 بناء بنوك الأسئلة
 السيناريو التعليمي
 المهارات الرقمية لمعلم القرن 21
 الوعي الإلكتروني وتعزيز الممارسات الآمنة للإنترنت
 إنتاج الفيديو التعليمي

Ph.D. Thesis Committees – External Examiner:

- Fadl Dahan, King Saud University, Quality of Service Aware Web Services Composition Using Nature-Inspired Algorithms. Supervisors: Prof. Khalil El Hindi, Dr. Ahmed Ghoneim

External Examiner for the Research Project in Masters of Public Health (MPH) – School of Medicine, King Saud University.

- Afaf Ali Batis, Preferences and Features of a Blood Donation Smartphone App: A Multicenter Mixed Method Study in Riyadh - Saudi Arabia., Supervisors: Prof. Ahmed Albarrak, Viva Date: 18/04/2018.
- Khalid AlFawaz, Diabetic Patient's Perception of Tele Diabetic Retinopathy Screening and Image Evaluator's Feedback on the Quality and Information Tele Transferred with Retinal Images, Supervisors: Dr Nasriah Zakariah, Viva Date: 18/04/2018.
- Muteb Alsaadi, Developing and evaluating a web-based platform for telepsychiatry through online videoconferencing technology, Supervisors: Dr. Amr Jamal/ Dr Nasriah Zakariah, Viva Date: 26/12/2017.

Master Thesis Committees – External Examiner:

- Saad Mohammad Almalki, Naif Arab University for Security Sciences, A New Intelligent Model for Phishing Web Sites Detection. Supervisor: Dr. Nabih T. Arar, Viva Date: 18/4/2018.
- Reda Ahmed Ali Ibrahim, University of Creative Sciences, تقييم دور الهواتف الذكية والحسابات اللوحية في دعم تعلم برامج تقنية المعلومات بالمعاهد الخاصة (دراسة حالة " معاهد الخليج للتدريب والتعليم في المنطقة الجنوبية بالمملكة العربية السعودية "). Supervisor: Dr. Mohammad Samir Abdelhaq , Viva Date: 14/3/2015.
- Noor Hussien Awad, Jordan University of Science and Technology, *An Adaptive Differential Evolution With an Ensemble of Parameters for Multi-Objective Optimization*. Supervisors: Dr. Rehab Duwairi, Dr. Mostafa Ali, Viva Date: 20/3/2014.
- Fuad Sameh Ali Alshraideh, Philadelphia University, *An Approach to Extend WSDL-Based Data Type Specifications to Enhance Web Services Understandability*. Supervisor: Dr. Samer Hanna, Viva Date: 29/5/2013.
- Ismael Mahmoud Ja'far, Princess Sumaya University for Technology, *Frequency Domain Hybrid Based Image Indexing and Retrieval*. Supervisor: Dr. Ashraf M. Ahmad, Viva Date: 24/01/2012.
- Mohammad Salameh, Al-Balqa' Applied University, *Analysis and Design of Landmine Detection System Using Mobile Devices*. Supervisor: Prof. Alaa Sheta, Viva Date: 04/08/2008.

Master Thesis Committees – Internal Examiner - The University of Jordan:

Student Name	Title	Supervisor	Viva Date
Balkees Essa AlShagoor	Analysis and Development of E-Health System for Chronic Disease Management Utilizing Adaptive Human-Computer Interaction Dialogues	Professor. Majid Al-Tae + Dr (Med) Ayman Zayed	30/7/2012
Lamya Omar Nasser Abdullah	Distributed Secure SIP Service over Ad Hoc Networks	Dr. Iman AlMomani	22/12/2011
Eman Mohammad Al-Thwaib	A Comparative Study of Machine Learning Techniques in Classifying Full-Text Arabic Documents Versus Summarized Documents	Dr. Khalil El-Hindi	05/08/2010

Majd Bassam Al-Ashhab	Automatic Test Data Generation Using Ant Colony Optimization	Dr. Khalil El-Hindi + Dr. Mohammad Alshraideh	03/08/2010
Asia Mosa Mohammed Al Saad	Mining Arabic Text Using Association Rules: The Holy Quran as a Case Study	Dr. Khalil El-Hindi + Dr. Bayan abu Shawar	13/05/2010
Oraib Yousef Al-Migdadi	A Spatial Data Structure for Tracking Mobile and Fixed Nodes	Dr. Azzam Sleit	06/08/2009
Dania Ahmad Mohammad Hlayyel	Recognizing Usage Patterns from Jordan University Website Using Self Organizing Map	Dr. Ammar Al Huneiti	14/05/2009
Inas Ismail Abuqaddom	Automated Reallocator of Replicas over Mobile Ad Hoc Networks	Dr. Azzam Sleit + Dr. Wesam Al-Mubaideen	12/05/2009
Badr-Aldeen Mustafa Mansour	Comparative Performance Study of Ultrasound Images Compression Dedicated to Telemedicine Application.	Dr. Abdel Latif Abu-Dalhoun	07/08/2008
Inas Juma	Detecting Fuzzy Duplicates Based on JEDS.	Dr. Azzam Sleit	05/08/2008

Master Thesis Supervision - The University of Creative Sciences:

Student Name	Title	Co Supervisor	Proposal Approval Date	Viva Date
Sara Mohammed Al-Huwaimel	أثر التكنولوجيا في تطوير إدارة المشاريع "دراسة تطبيقه لأراء عينه من مدراء البنوك والشركات في المنطقة الوسطى والشرقية من المملكة العربية السعودية"	None	01/04/2016	

Master Thesis Supervision - The University of Jordan:

Student Name	Title	Co Supervisor	Proposal Approval Date	Viva Date
Zainab Ali Ismail Darweesh	Investigating the Use of Filtering Techniques to Improve the Accuracy of Discovering Association Rules in Noisy Domains	None	03/1/2013	17/12/2014
Asma' Abd Al-aziz Amro	Using Instance Reduction Techniques For Pruning Decision Trees	Dr.Khalil elHindi	10/1/2012	18/12/2012
Sawsan AL Bakri	An Automated Diagnoses System Based On Blood Vessels Features	Dr.Bashir AlDiri Lincoln University, England	1/1/2011	26/12/2011
Lamia Hesham	Neuro-Fuzzy Classification Using Recursive Deterministic Perceptron	None	1/1/2011	26/7/2012
Ala' Ibrahim Barakat	Using Machine Learning Techniques to Diagnose Glaucoma Disease	None	1/1/2011	27/12/2011
Rodwan Shalalfeh	Best Utilization of Mirroring Server Resources using Artificial Neural Networks.	Dr.Azzam Sleit	23/12/2009	10/8/2011
Anas Liswi	Collaborative Mobile Learning Architecture Based on Mobile Agents	Dr.Iman AlMomani	18/05/2009	26/7/2010

Rami Khawaldeh	Ant Colony Optimization For VoIP Quality Assessment	Dr.Khalil elHindi	26/5/2009	15/7/2010
Dana Mostafa Beidas	Search in Multimedia Databases Using Similarity Distance	None	26/5/2009	13/5/2010
Ala' Fahad Aburumman	Securing SIP over Ad hoc network (Authentication)	Dr.Iman AlMomani	05/05/2009	5/8/2010
Heyam Bader	A Genetic Algorithm Gabor Filtered Optimization for Blood Vessels Detection of Digital Retinal Images.	Dr. Abdel Latif Abu-Dalhoum	02/11/2008	03/08/2009

Capstone Project Master Information Security – Saudi Electronic University:

2017 – First Semester

Khalid M. Aldalilah	Ransomware: History, Attributes and Mitigation
Mohammed Al Jutail	The Dangers Associated With Mobile Applications Permissions
Badr Ahmad Aleidi	Using Blockchain Technique to Validate Integrity and Confidentiality of Backups Versions
Hitham S. AlQadheeb	Automated Cuckoo Sandbox System (Examiner)
Sultan Almalki	Security Risk Assessment at MOI

2016 – Second Semester

Wael Mohammed Eid	NCSC Framework for Mass Scanning KSA Network (Edge Project)
Fahad Ahmed Al-Naeem	Securing Open Government Data
Mohammed Abdullah AlMadhi	Proposed Framework for Information Security Policy Adoption in Saudi Small and Medium Enterprises (Examiner)
Mohammad Mansour Alshaer	Cybersecurity Concerns in TELCOs Migration to SDN & NFV

2016 – Second Semester (Security assessment case studies)

Badr Alogaili	ARASCO's Risk Assessment
Abdulelah Almarzouq	Security Risk Assessment at MOL
Bander Abdullah AlQahtani	STC Portal Risk Assessment
Abdullah Alhurair	SFHP Information Security Risk Assessment
Bandar Fahad Alqhtani	SFG Information Security Risk Assessment
Abdulaziz E. Nassrudin	Risk Assessment for Ministry of Civil Services

2015 – Second Semester (Security assessment case studies)

Ali Mohammed Al Garni	IT deanship in Imam Mohammed Ibn Saud Islamic University
Nasser Alotaibi	Information Security Risk Assessment for Saudi Post's Network
Yasser Alzeer	KACST- National Center for Remote Sensing Technology- Information Security Analysis of Controls and Improvement
Ahmed A. Al Mangour	ELM Company
Faleh H. Alshammary	QASSIM Distribution Department (QDD)
Fahad Eid Almutairi	Risk Assessment of ELM Internal Threats & Vulnerabilities
Abdullah Al Zakry	Information Security in KSAU-HS
Khalid S. Al Medbel	Health Care Systems Security
Mosaab Alharbi	Saudi Aramco
Ali M. Al-Subaie	Cyber Security Transportation Company Assessment Project
Khalaf Saeed Alharthi	FSF Information Security Risk Assessment
Abdullah Alshamrani	Securing IT Infrastructure for PID
Mohamed AlMohassen	Network Security Assessment for KACARE
Tariq Al Tuwairqi	South of Riyadh Hospital (SORH)

Supervised Graduation Projects per Year

2017/2018

Second Semester

1. Ali Juman Alzahrani, Sultan Abdullah Alraqi, Sami Saoud Alonazi, Rani Murshed
Conference Management System Arabization (CMSA)

Details: Web Conference Systems (WCS) is a Web publishing tool for scientific conferences. EDAS and Easy chair are examples of such systems.

The idea of the project is to provide an Arabic version of such systems for Arabic users with at least the following features.

- Free Registration for conference organizers, authors and reviewers
- Electronically submit, review, accept or reject papers.
- Allow paper submitters to edit their work and submit a revised version.
- Change paper status.
- Contact authors and reviewers by integrating email submission facility.

2015/2016

Second Semester

1. Waleed S. Khorynek, Saeed H. Al Garni, Imam I. Mohammed
E-Tourism: Visit KSA

Details: The purpose of the project is to develop a web-based application for Kingdom of Saudi Arabia Visitors application by utilizing the knowledge and skills gaining from this subject and a web site that links to the tourist database to retrieve tourist information. This project is chosen due the lack of specialized websites that can reveals the hidden tourism sites located in Saudi Arabia.

The proposed system maintains a centralized repository of all related information such as places, hotels and Restaurants. The system provides all the help and information that a customer generally requires. The system allows one to browse through all the details and information.

2013/2014

Spring Semester

1. Gaith Bassem Awwad - Saad Marwan Al-Khatib - Anas Joban
Business Link

Details: The idea of e-business system came after a growing number of interested people with doing business and activities over e-channels. There are potential gaps or weakness in traditional business activities that have been studied and analysed by our team, thus we discovered that business needs such a system to overcome all problems and make all business activities and needs easy and flexible through the use of web. Business link is a good idea to take the world to a new approach in the business process, and to increase the number of successful business over the world. Thus the e-business system will help us to perform.

Business Link focuses on studying traditional business activities and to make sure that peoples share their business interests and ideas effectively. This will also produce:

- Less effort and less labour-intensive, as the primary cost and focus primary on creating, managing and running a secure web business portal.
- Increasing number of businesses as individuals will find it easier and more convenient to participate, especially those abroad.
- The e-business system to be discussed serves business men, sponsors, people who has workable ideas.

2. Danya Al-Ramamneh - Sara Botai - Yasmeen Irshaid
Baby Care

Details: There are many applications that help the mother to take care of her baby, but as far as we know there is no application that connects the mother with the baby's doctor.

Baby care application is an android application. This application assists the mother in taking care of her baby and keep him/her healthy by tracking his/her weight, height and head circumference and the application shall also remind the mother of all her baby's vaccines and tell her exactly what are they for. It also suggests to her the right foods for each age group. The mother can also contact her doctor

anytime for any problem she has with her baby. The app shall also diagnose an illness depending on given symptoms.

3. Malek Abu-Salah - Wa'el Abu El-Hawa - Salim Abu El-Hawa - Nour al-deen al Neser
JU Tour

Details: JU TOUR is a 2D arcade game, where you play in front of the building of King Abdullah II School for Information Technology, The University of Jordan. The objective of the game is to learn more about KASIT faculty by collecting information and answering questions about the faculty.

During the game, the player attempts to collect as many coins as possible to increase his/her score, look for books with different colors to get information about the departments of the IT faculty. Use the information needed to answer the questions appears at the end of each level. Answer these questions correctly to progress to the next level. **Technology:** JU TOUR is developed for both the web and PC (Windows), using Unity Game Engine (Version 4.3.4f1). For the web version of the game, it is required to have a web browser with Unity Web Player installed on. You can find the latest version at: <http://unity3d.com/webplayer>. Programing languages used: C# and JavaScript.

Fall Semester

1. Tareq Ghawanmeh_Tarik Al-Zyoud_Loai Modallal

Pictor: Image Editor

Details: As there are few complete image-editing applications available in the android market today, we felt that there was a need to create a complete, yet simple and fun image-editing application for android users.

To fulfil this we decided to include all the standard functions and filters an image editing application should have, while providing a simple and easy-to-use interface, moreover we tried to make it as much fun as possible.

The application will allow you (the user) to select an image from either your gallery or by capturing it using your mobile camera or import it from the gallery application, and then give the user the ability to apply a variety of effects. Such effects include inserting shape, text, clip-art, adding filters (such as Black and White), Negative and Grayscale, providing you with a fun and interactive application for your android device, while learning about the filters you are using.

2012/2013

Spring Semester

1. Mahmoud ALShtayyat__Mahmoud Alqam__Ehab Anan

JU Navigator

Details: The objective of the project is to design an application to guide students to the places of interest inside the university such as restaurants, public facilities, parking, and tourist attractions in addition to many other important places in the university using GPS technology through smart phones. The project has been designed on android platform and consists of SQL Lite as a database.

Our motivation for this project came from our understandings of our responsibilities towards the society and the university society in particular also our strong urge to learn the development of Android applications which is one of the fastest growing technologies in today's world.

The project consists mainly of two types of users: normal users and users with special needs, where the user can use this application to choose his/her destination inside the university campus, the application will display the map using Google Maps and uses GPS to get the user's current location also uses the speech synthesis and recognition techniques to give the user the best experience.

2. Nisma Gafer_0097430_Laila Ba'alawi_0098892_Amal Al-soudi_0053462_Yasmeen Al-Tayeh_0091466

Human Resources Management over android applications

Details:

This project is a part of human resource management systems where two important modules are implemented. These are leave request and announcement. These applications allows the employees easily and formally manage their leave requests and check a new announcement anywhere and anytime and they can quickly and easily submit and check the status of their leave requests right from their Android Smartphone, helping the manager and employee better manage their time off.

2011/2012

Spring Semester

1. Abdallah AlQurashi_

HeliRobot

Details:

HeliRobot Q1 Project is a prototype for a small helicopter that can be used for military, police, discovery, civil and spy applications and more.

The word "HeliRobot" comes from two words "Helicopter" and "Robot" and we can call it a Robot because one of the project aims is to develop a helicopter that can complete any task was assigned to it independently without any human assistant (intervention).

In this project the first step of building a discovery helicopter was completed by making the ability of controlling the helicopter via a computer using Joystick or via an Android device using its accelerometers, in the case of controlling it using the computer the Android device will be mounted on the helicopter and will send to the computer the speed, location, heading, orientation (Balancing) and the height of the helicopter, the Android device can broadcast the video captured by the camera to the computer, that allows the person to control the helicopter to fly without watching it, just by looking to the screen of the computer.

Fall Semester

1. Haneen Ismail_0096673_Mohammad AL-Heet_0080782

Over Head Crane

Details: Most manufacturing plants contain warehouses as an essential place for storing, keeping and retrieving products. This process should ensure the safety of the goods; not to become defected, automating the process is the goal most leading industrial companies are aim for in several industrial fields. Our winching system aims to automate the process of storing and retrieving the products to save time and budget allocated for that purpose in an industry. The system consists of three primary hardware components that work together to achieve the system goals; the first component is the input device which contains sensing device to determine if there is a product to store, the output device which contains sensing device and assembly line to get the item out of the warehouse and finally the crane which moves in all direction to achieve its goal of moving the items from and to the warehouse.

2. Razan Ameen_0084593_Haneen Al-Bitar_0084636

Quick Solver: Incident Managements System

Details: Incident management system is part of the Service Support Functions of the ITIL which is the most widely adopted approach for IT Service Management in the world. It provides a practical framework for identifying, planning, delivering and supporting IT services to the business. Incident Management System is a very critical part in any organization that provides services or products to customers. It helps the organization to restore credibility. *Quick Solver* is a user-friendly, easy to use Incident Management System that meets all the Incident Management System requirements. Using our system it is now easier to record, classify, investigate and resolve Incidents like ITIL suggest.

3. Yaman Al-Kamaly_0071096

Moodie

Details: An intelligent mobile application that attempts to change user's mood through suggesting some places to visit. The suggestions are based on previous visits by the user, his/her rating, mood criterion, and nearby places to his/her current location. Moodie can also access the user's Facebook's account to access friends' locations and check in places, friends can also know his/her locations.

Moodie was applied on Windows phone 7 utilising a number of services such as Bing maps, Silverlight, Windows Communication Foundation. Moodie can be extended to iOS and Android.

2010/2011

Fall Semester

1. Safaa Ahmad_0087479-Rawand Abu Roza_0080829

Neural Iris Signature Recognition (NISR)

Details: The idea of the project is to develop a system that is able to recognise people based on their iris image. The proposed system is based on an Artificial Neural Network model.

2009/2010

Spring Semester

1. Maisa Fuqaha_0086616-Diana el Qaisi 0059198
Intelligent Special Needs System
Details: The idea of the project is to help deaf people in communicating with normal people through a system designed to translate deaf people sign language into spoken sentences and to translate normal peoples' speech into signs understood by deaf people.
2. Rakan Al Yaman-Ruba Abu Hammour
Landmine Detection System
Details: The idea of the project is a prototype LEGO NXT robot developed to explore an area with landmines by using light and temperature sensors.

Fall Semester

1. Dua'a AlZawahra_2060084_Muna Fannoon_0067303_Sawsan Al Mahmoud_2060325
i-Bot System
Details: The idea of the project is to help in classification problems in a factory setting. In the proposed scenario there is a production belt where CANs of certain products (soda for example) are run over the belt. A robot arm will handle the CANs according to the following classification criteria (Appropriate or defected) and (Big or Small) and (Yellow or Orange). By doing so the proposed system helps in automating the processes in the factory rather than having a specialised factory worker(s) to do this repetitive task.
The system composed of the following components: A running belt, a robot arm that does the classification, two cameras that take shots of the current CAN and an Image processing component to help in the calculations. The pictures taken by the cameras are transferred to a computing device (a computer with image processing capabilities). Then the computer does certain calculations (image processing) to classify the current CAN. An order is then sent to the robot arm to do the classification appropriately
2. Mahmoud Yassin_0050718_Tariq Jahaf_2051619
Mobi-Shop
Details: A mobile agent based system to aid in quick navigation of different products within a shopping mall.

2008/2009

Summer Semester

1. Reem Al-Fayez_0067336_Rawan Al-Rihani_0068775
Details: E-School Management System

Spring Semester

1. Bayan Jamal Almemeh_0057432
KASIT Mobile Quiz
Details: Mobile Quiz using J2ME
2. Braah Kassab_0057430_Doaa Qwasmi_0057438_Hanady Abu-Lihyah_0057501_Taghreed Khresat_0057434
Details: Customer Relationship Management (Mobile Banking)
3. Eman AlBana_0050695_Razan Al-Ansari_2060063_Ola Al Siksik_0057465_Hana Al-Adham_0057500:
Mobi Lecture
Details: A mobile lecturing system to stream video lectures to mobile devices.
4. Yasmeeen Hesham_0057504_Manal AlMunnayer_0057484
Map Builder using Robot Movement
Details: A system was built to track robot movement using LEGO NXT and MATLAB.

Fall Semester

1. Afnan Anaya-0057425:
Details: E-Conference Management System
2. Ala abdalaat-0057519-Hadeel Samara-0051302
Details: Copyrights Protection Tool: Secure PDF Reader (SPRS)
3. Mohammad Abu Qaoud-0056632-Hamzeh Elees-0057525
Dynamic Smart home system
Details: Build a smart House System involved hardware and software.
4. Noor Jaber-0057491-Rawan Abu Zaid-0057446

Robotics Library Assistance System (RLAS)

Details: A prototype for a library assistant was built using Lego NXT.

2007/2008

Spring Semester

1. Abdullah Jaouni _Kareem Meteb _Rami ElZeer
UJ Multimedia Conferencing Using Protocol.

Details: Multimedia Voice and Video Conferencing System using SIP Protocol and Implemented Using Java programming language.

2. Amer Salameh_0031427

Details: Amman city GIS tourists guide.

3. Zaid Rachwani_Ibraheem Hameed
Web-based TV broadcast

Details: Development of a Web-based IPTv streaming website.

Fall Semester

1. Students: Geith AlQurashi-0053151

Details: Development of a Microsoft SharePoint website.

References:

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