Mohammad Alnabhan

Associate Professor of Computer Science

Personal Information

Nationality: Jordanian

Specialization: Computer Science.

Language: English, Arabic (mother tongue).

Academic Rank: Associate Professor.

Contact Details:
Faculty of Science
Information Technology Department,
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Karak, 61710
Jordan.

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Education

2006 – 2009   **PhD** (Computer Science)

Brunel University, West London, United Kingdom

2004 – 2006   **Master** (Computer Science)

Anglia Ruskin University, Chelmsford, United Kingdom.

2000 – 2004   **BSc** (Computer Science)

Mu'tah University, Mu'tah, Jordan.

Academic Experience

2015 - Now   Associate Professor, Information Technology Department, Faculty of Science, Mu'tah University, Jordan.

2014 – 2015   Associate Professor, Computer Science Department, Faculty of Information Technology, Jerash University, Jordan.

2009 – 2014   Assistant Professor, Computer Science Department, Faculty of Information Technology, Jerash University, Jordan.

2006 – 2009   Research Assistant, Brunel University, United Kingdom.

Managerial Experience

2011 – 2015   Acting Dean of Faculty of Information Technology, Jerash University, Jordan. (Founder Dean)

2010 – 2011   Head of Computer Science Department, Jerash University, Jordan.

Teaching & Administration Experience

- **Taught Courses:** *Bachelor and Master Levels*
  - Programming Principles; Advanced Programming; Object oriented programming; Visual programming; Internet Programming; Web applications programming; Mobile applications programming (Android platforms).
  - Computer Networks; Wireless Networks; Network Management; Networks Programming, Network Monitoring & Evaluation.
  - Electronic Commerce, Electronic Commerce Programming, Management Information Systems.
  - Operating Systems, Database; Data Structures; Technical Communication Skills.
  - **Master Level:** Advanced Computer Networks, Advanced Network Security.
  - ❖ *Supervised more than ten MSc Students in computer Science.*

- **Administration responsibilities and capabilities:**
  - Designing and developing study planes and course syllabuses.
  - Strategic planning.
  - Quality Assurance (QA) monitoring and fulfilment.
  - Managing university ICT projects and tenders. This included the following projects:
    1. Website design & development.
    2. E- Registration system development and implementation.
    3. E-Learning & online exams systems development and implementation.
    4. Data Centre infrastructure development including new network design and devices refurbishment and renewal.

2

Skills & Expertise

- **Programming languages & Platforms:**
  - Visual Studio, C++, C#, VB, VB. Net, ASP. Net.
  - HTML, XAML.
  - JavaScript, Java.

- **Applications Development:**
  - Windows Applications Development.
  - Web Applications Development.
  - Mobile Applications Development.

Scholar Activities and External Recognition

2011 – 2012   Microsoft Academic Advisor, Jerash University, Jordan

2009 – 2015   Director of the Annual Symposium of IT Students in Jordan (SITS).

2009 – 2011   Jerash University representative at the Higher Council for Science & Technology, Jordan.

2009 – 2012   Visiting scholar at the Centre for Computer and Electronic System Research (CESR), Brunel University, United Kingdom

2008 – 2013   Academic consultant to Knowledge Well Ltd. Chelmsford, United Kingdom

2007 – 2015   Member of IET, IEEE, Royal Institute of Navigation (RIN), Arab Computer Society, Jordanian Academic Association.

2008 – 2015   Reviewer in several Journals such as IJESMA, IJHCR and IJHISI

Units, Committees & Councils

2014 - 2015   Member of Appointment and Promotion Committee, Jerash University, Jordan.

2012 – 2015   Director of Online and Electronic Services Unit, Jerash University, Jordan.

2011 – 2015   Member of University Study Plans Development Committee, Jerash University, Jordan.

2011 – 2015   Member of Deans Council, Jerash University, Jordan.

2011 – 2015   Member of University Council, Jerash University, Jordan.

2010 – 2012   Member of University Development and Planning Committee, Jerash University, Jordan.

Awards & Achievements

- Best paper Award, Computer and Mobile Applications Workshop, May 2010 (MCA – 10), Jordan.
- Winner of the 2008 Vice Chancellor's Prize for Best Postgraduate Research Students, Brunel University, UK.

Conferences & Workshops

- International Workshop in Arabic Natural Language Processing: Models, Systems and e-Applications. Tabuk, KSA, 7th and 8th of October, 2015**.**
- International Conference on Computational and Experimental Science and Engineering, 24-29 October, 2014, Antalya, Turkey.
- European, Mediterranean International conference on Information systems, Windsor, United Kingdom, October 17th - 18th , 2013
- European, Mediterranean International conference on Information systems, Munich, !ó
- European, Mediterranean International conference on Information systems, Athens, Greece May 30 – 31, 2011.
- Third international conference on E-learning, Manama- Bahrain, 6 – 8 April (2010).
- European, Mediterranean International conference on Information systems, Abu Dhabi, 12-13 April 2010
- The 6th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-08), Doha, Qatar, March 31 - April 4, 2008
- The Navigation Conference and the International Loran Association Exhibition (*NAV08*/ILA37), Royal Institute of Navigation (RIN), Church House, London, UK. 27th – 30 of October 2008.

Research Interest

- Mobile Computing.
- Context Adaptive Computing.
- Wireless Networks: Localization and QoS Measurement.
- Network Security and Privacy.
- Software visualization.

Publications

1. Journals:

- Mustafa Hammad, **Mohammad Alnabhan**, Sarah Al-Sarairah (2019): Combining Structural and Semantic Cohesion Measures to Identify Extract Class Refactoring, to appear in International Journal of Computer Applications in Technology, 2019.

- Mohammad Al-Nawayseh, Aladdin Baarah, **Mohammad Alnabhan**, Sultan Al-masaeed (2018): Mobile Learning Adoption in Jordan: Technology Influencing Factors, to appear in International Journal of Networking and Virtual Organisations.

- **Mohammad Alnabhan**, Ahmad Abu-Al-Aish, Sultan Al-Masaeed (2018): Collaborative and Ubiquitous Mobile Learning System Prototype, International Journal of Computer Applications in Technology, Volume 58, Issue 4, 2018.

- **Mohammad Alnabhan** (2018): Location-Based Clustering and Collaborative Filtering for Mobile Learning, International Journal of Networking and Virtual Organisations, Volume 19, Issue 1, 2018.

- Awni Hammouri, Mustafa Hammad, **Mohammad Alnabhan**, Fatima AL Sarayrah (2018): Software Bug Prediction Using Machine Learning Approach, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 9, No. 2, 2018.

- **Mohammad Alnabhan,** Mahmoud Alshuqran, Mustafa Hammad, Mohammad Al Nawayseh (2017): Performance Evaluation of Unicast Routing Protocols in MANETs – Current State and Future Prospects. International Journal of Interactive Mobile Technologies. Vol.11, No.1, 2017.

- **Mohammad Alnabhan,** (2014): Ubiquity and Context-Aware M-Learning Model: A Mobile Virtual Community Approach, to appear in the International Journal for handheld Computing Research (IJHCR), Vol. 5, No.1, pp.41 – 55, 2014.

- **Mohammad Alnabhan,** Nasim Matar, Abdulameer Hussain, Ja'afer AL-Saraireh (2014): Location-Aware Mobile Learning Model: A Case for Positioning Performance Measurements, Computer and Information Science Journal (CIS), Vol. 7, No.1, 2014.

- **Mohammad Alnabhan,** Ahmad Haboush, Anas AL-Badareen, Mohammad Al-nawayseh, Bassam EL-Zaghmouri, (2014): An Evaluation Framework for Requirements Definition of Software Development, Journal of Convergence Information Technology, Vol. 9, No. 3, 2018.

- Ahmad Haboush, **Mohammad Alnabhan,** Anas AL-Badareen, Mohammad Al-nawayseh, Bassam EL-Zaghmouri, (2014): Investigating Software Maintainability Development: A case for ISO 9126, International Journal of Computer Science Issues, Vol.11, No.2, 2014.

- **Mohammad Alnabhan,** Ahmad Haboush, Binod Kumar Pattanayak, Mohammad Alnawaiseh, Anas AL-Badareen, (2014): Emerging Trends in Intrusion Detection in Mobile Ad-Hoc Networks (MANETs), Information Technology Journal, 13 (13), pp.2065-2078.

- Nasim Matar, **Mohammad Alnabhan,** (2014): Evaluating Electronic Health Services and Patients Requirements in Jordanian Hospitals, International Arab Journal of e-Technology, 3 (4).

- **Mohammad Alnabhan,** Yousef Aljaraideh (2014): Collaborative Mobile Learning Adoption Model: A Case Study for Jordan, to appear in the International Journal of Emerging E-learning Technologies, Vol. 9, No. 8, pp.4-10, 2014.

- Mohammad Al-nawayseh, **Mohammad Alnabhan,** Mu'taz Al-Debei, Wamadeva Balachandran (2013): An Adaptive Decision Support System for Last Mile Logistics in E-Commerce: A Study on Online Grocery Shopping, International Journal of Decision Support System Technology, Vol.5, No.1, pp.41-66, 2013.

- **Mohammad Alnabhan**, Ahmad Haboush, Ja'afer AL-Saraireh, Nasim Mattar (2012): A Preliminary Evaluation Study for M-learning Services and Implications for Future Design. World of Computer Science and Information Technology Journal (WCSIT), ISSN: 2221-0741 Vol. 2, No. 1, pp.13-17, 2012.

- Ahmad Haboush, Mohammad **Alnabhan,** Mutasam, Al – Tarazi, M., & Al – Rawajbeh. M. (2012): Load Balancing Using Multiple Node Disjoint Paths. Computer and Information Science Journal, Vol. 5, No. 3, pp.83 – 89.

- Ja'afar AL-Saraireh, Mohammad Saraireh, Saleh Saraireh and **Mohammad Alnabhan** (2011): Formal Analysis of a Novel Mutual Authentication and Key Agreement Protocol, Journal of Computer Science and Technology (JCS&T), Vol. 11 No. 2, 2011.

- **Mohammad Alnabhan,** Suliaman Almasri, Vanja Garaj, Wamadeva Balachandran, and Ziad Hunait (2010): Client-Server Based LBS Architecture: A Novel Positioning Module for Improved Positioning Performance, International Journal of Handheld Computing Research (IJHCR). Vol 2, No. 2, pp. 1-11, 2010.

- Sulaiman Almasri, **Mohammad Alnabhan,** Ziad Hunaiti, and Wamadeva Balachandran (2009): Location-based services (LBS) in micro-scale navigation (2009): shortcomings and recommendations, International Journal of E-Services and Mobile Applications, Vol. 1, No. 4, pp.51-71, 2009.

2. Book Chapters:

- Almasri, S., **Alnabhan, M**., Hunaiti, Z., and Sedoyeka, E. (2011): Location-Based Services (LBS) in Micro-Scale Navigation: Shortcomings and Recommendations. In A. Scupola (Ed.), Developing Technologies in E-Services, Self-Services, and Mobile Communication: New Concepts (pp. 234-252). Hershey, PA: Information Science Reference. doi:10.4018/978-1-60960-607-7.ch013.

3. <u>Conferences:</u>

2018:

- **Mohammad Alnabhan**, Awni Hammouri, Mustafa Hammad, Mohammad Otoum, Omamah Al-Thnebat, 2D Visualization for Object-Oriented Software Systems, the third edition of the International Conference on Intelligent Systems and Computer Vision (ISCV2018), fez, morocco, April 2018.

2017:

- Atoum, **M. Alnabhan**, M. Habboush A (2017): Advanced LSB Technique for Audio Stenoraphy.Third International Conference on Cryptography and Information Security (CRI S 2017), Geneva, Switzerland, March 25-26, 2017, Geneva, Switzerland.

2015:

- Abu shquier, **M. Alnabhan**, M (2015): Arabic Tri-Literal Word Analyser : Rule based Approach. International Workshop in Arabic Natural Language Processing: Models, Systems and e-Applications. Tabuk, KSA, 7th and 8th of October, 2015**.**

2014:

- **AL Nabhan, M.,** Abu-Al-Aish, A., (2014): M-learning QoS Measurement Model: AContext Adaptation Approach, International Conference on Computational and Experimental Science and Engineering, 24-29 October, 2014, Antalya, Turkey.

2013:

- AL Nawayseh, M., **AL Nabhan, M**., Balachandran , w., (2013): Wimax Technology Adoption in Education: A case for Jordan. European, Mediterranean International conference on Information systems, United Kingdom, October 17th - 18th , 2013.

2012:

- **AL Nabhan, M.**, Mattar, N. (2012): Wimax Technology Adoption in Education: A case for Jordan European, Mediterranean International conference on Information systems, Munich, Germany, June 7th - 8th , 2012.

2011:

- **AL Nabhan, M.**, (2011): An Integrated Context Adaptive M-learning System, European, Mediterranean & Middle Eastern Conference on Information Systems 2011 (EMCIS2011) May 30-31 2011, Athens, Greece.

2010:

- **Alnabhan, M.**, and Abu Shquier, M. (2010) 'Location Based Services as an Adaptive M-learning System'. Third International Conference of Zian E-learning centre, April, 2010, Manamah, Bahrain.

2009:

- **Alnabhan, M**., Balachandran, W., Garaj, V. and Sedoyeka, E. (2009b) 'An Adaptive and Accurate GPS Positioning Model for LBS Applications: A Predefined User and Application Parameters Approach', The second GNSS-09 Vulnerabilities and Solutions Conference, 2 - 5 September, Baska, Krk Island, Croatia.

2008:

- Sedoyeka, E., Hunaiti, Z., **Alnabhan, M.,** and Balachandran, W. (2008) 'WiMAX Mesh Networks for Underserved Areas', Proceeding of the 6th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-08), March 31st - April 4th, Doha, Qatar, pp.1070-1075.

2007:

- Almasri, S., **Alnabhan, M.**, Sedoyeka, E., and Hunaiti, Z. (2007) 'Location-based Services Enhancement Using Zone- Based Update Mechanism', Proceeding of the 8th Annual Postgraduate Symposium, the Convergence of Telecommunications, Networking and Broadcasting, 28th -29th of June, Liverpool, UK.

2006:

- Al-Saraireh, J., **Alnabhan, M.,** and Yousef, S (2006), 'Investigate the Performance of Signaling Traffic and Load Transaction between Mobile Entities,' 1st Conference on Advances in Computer Security and Forensics (ACSF), July 2006 -Liverpool, UK.