

Curriculum Vita

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Date of Birth: December 16, 1976.
Marital Status: Married, 5 children.
Nationality: Jordanian and Australian.

EDUCATION

- 2009 **Doctor of Philosophy**, Software Engineering, University of Technology, Sydney, Ultimo, Sydney, NSW, Australia.
Dissertation Title: Novel Algorithms for Cardiovascular Parameters' Estimation for Long Term Monitoring Systems.
- 2004 **Master of Engineering Studies:** Major in Software and Information System Engineering, University of Technology, Sydney, Ultimo, Sydney, NSW, Australia.
- 1999 **Bachelor of Electrical Engineering/ Communication**, Mutah University, Karak, Jordan, with Excellent grade (84.4 %).

Work EXPERIENCE

- 2013-2014 Acting Vice Dean of Information Technology Faculty, Al-Hussein Bin Talal University, Ma'an, Jordan.
- 2010-2011 Acting Head of Software Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan.
- 2012-2014 Acting Head of Software Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan.
- 2000-2002 Quality Assurance Engineering, Testing and Quality Control department, Electronic Services Centre, Royal Scientific Society, Amman, Jordan.
- 1999-2000 Biomedical maintenance Engineering, Biomedical Maintenance department, Electronic Services Centre, Royal Scientific Society, Amman, Jordan.

ACADEMIC EXPERIENCE

- 1/2018 till Now Associate Professor, Department of Software Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan.
- 9/2014- 1/2018 Assistant Professor (A), Department of Software Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan
- 9/2009 – 9/2014 Assistant Professor (B), Department of Software Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan.
- 8/ 2008 – 6/2009 Research Assistant, Centre for Autonomous Systems (CAS), University of Technology, Sydney, Ultimo, Sydney, NSW, Australia.

TEACHING EXPERIENCE

- I have taught all of the Software Engineering courses offered by the Department of Software Engineering at Al-Hussein Bin Talal University: Introduction to Software Engineering, Human-Computer Interaction, Software Operation and Maintenance, Software Requirement Engineering, Software Design and Implementation, Software Project Management and Quality, Fault tolerance systems, Technical writing skills, Professional and Ethical Practices and Software testing (Validation and Verification).

- In addition, I have taught other courses offered by College of Information Technology Al-Hussein Bin Talal University including: Data Structure and Algorithms, Fundamentals to Information Technology, Introduction to Information Systems and Computer Security.

RESEARCH

My major research interests are: Computer-Aided Instruction, Numerical Methods, Communication, Artificial Intelligence and Embedded Systems.

PUBLICATIONS

REFEREED BOOK CHAPTERS:

1. Adel A. Al-Jumaily and **Moha'med O. Al-Jaafreh**, *Multi – Agent System Concepts: Theory and Application Phases*, Chapter 19 in Book: *Mobile Robots: Moving Intelligence*, Edit by: Jonas Buchli, ARS International, pp.: 369-392, 2006.
2. **Moha'med O. Al-Jaafreh** and Adel A. Al-Jumaily, *Blood Pressure Estimation with Considering of Stroke Volume Effect*, *Encyclopedia of HealthCare Information Systems*, N. Wickramasinghe and E. Geisler, Eds.: Idea Group Inc. (IGI Global), pp.: 965-971, 2008.

REFEREED JOURNALS:

1. **Moha'med Al-Jaafreh** and Zouhair Al-qudah: *Transmission Rates over State-Dependent Diamond Channel*. *IET Communication*; 2017. Accepted
2. **Moha'med Al-Jaafreh**, Tahseen Al-Ramadin, Malek Alksasbeh, Ahmed Saidan: *Optical Wireless Home Automation System*. *Global Journal of Computer Science and Technology*; Volume: 15, Issue: 8, Version: 1, pp.: 9-12, 2015.
3. Rafeeq Al Hashemi, **Moha'med Al-Jaafreh**, Tahseen Al-Ramadin & Ayman AL Dmour: *A Smart Algorithm for USE-Cases Production Based on Name Entity Recognition*. *Computer and Information Science*; Vol. 8, No. 4; pp. 51-55; 2015.
4. Tahseen A. Al-Ramadin, Malek Al-ksasbeh & **Moha'med al-Jafreeh**, "A New Approach for Automated Job Search using Information Retrieval", *Global Journal of Computer Science and Technology (C)*, Volume: 15, Issue: 6, Version: 1, pp.:14-19, 2015.
5. Mohamed A. Abuhelaleh, Khaled Almi'ani, Bassam A. Alqaralleh, **Moha'med Al-jaafreh**, and Tahseen A. Al-Ramadin, "*Cross-Layer Data-Gathering Protocol for Wireless Sensor Networks*", *Al-Hussein Bin Talal University Journal of Research*, issue 2, 2014.

REFEREED CONFERENCES

1. **Moha'med O. Al-Jaafreh** and Adel A. Al-Jumaily, "Type-2 Fuzzy System Based Blood Pressure Parameters Estimation," *2nd Asia International Conference on Modelling and Simulation (AMS 2008)*, May 13 – 15, 2008, Kuala Lumpur, Malaysia, pp.: 953-958, 2008.
2. Usman Mahmood, Adel A. Al-Jumaily and **Moha'med O. Al-Jaafreh**, "Type-2 Fuzzy Classification of Blood Pressure Parameters", *The third International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP 2007)*, December 3-6, Melbourne, Australia, pp.: 595 – 600, 2007.

3. **Moha'med O. Al-Jaafreh** and Adel A. Al-Jumaily, "Training Type-2 Fuzzy System by Particle Swarm Optimization", *IEEE Congress on Evolutionary Computation (CEC 2007)*, September 25-28, Singapore pp.: 3442-3446, 2007.
4. **Moha'med O. Al-Jaafreh** and Adel A. Al-Jumaily "Blood Pressure Estimation by Particle Swarm Optimization" *Cairo International Biomedical Engineering Conference 2006 (CIBEC'06)*, December 21-24, Cairo, Egypt, 2006.
5. **Moha'med O. Al-Jaafreh** and Adel A. Al-Jumaily, "Practical Swarm Optimization based Stroke Volume Influence on Mean Arterial Pressure", *The International Conference in Biomedical and Pharmaceutical Engineering 2006 (ICBPE 2006)*, 11th-14th December, Singapore, pp.: 508-511, 2006.
6. Gazi M. Azmal, Adel A. Al-Jumaily and **Moha'med O. Al-Jaafreh**, "Continuous Measurement of Oxygen Saturation Level using Photoplethysmography Signal", *The International Conference in Biomedical and Pharmaceutical Engineering 2006 (ICBPE 2006)*, 11th-14th December, Singapore, pp.:504-507, 2006.
7. **Moha'med O. Al-Jaafreh** and Adel A. Al-Jumaily "New Model to estimate Mean Blood Pressure by Heart Rate with Stroke Volume changing influence", *28th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (IEEE EMBC 2006)*, August 31 - September 3, 2006, New York, USA, pp.:1803-1805, 2006.
8. **Moha'med O. Al-Jaafreh** and Adel A. Al-Jumaily, " Multi-Agent System for Estimation of Cardiovascular Parameters", *1st International conference on Computers, Communications, and Signal Processing, with special track on Biomedical Technology (CCSP 2005)*, 14-16 Nov, Kuala Lumpur, Malaysia, pp.: 296-299, 2005.
9. Adel A. Al-Jumaily, Joseph M. Azzi and **Moha'med O. Al-Jaafreh** "Novel Algorithm in Multi-agent Collaboration on Solving Pursuit Problem", *Proceedings of the 2nd International Conference on Mechatronics (ICOM'05)*, 10-12 May, Kuala Lumpur, Malaysia, pp.: 124- 131, 2005.

AWARDS, SCHOLARSHIPS, AND DISTINCTIONS

1. 2009, 2nd position of the student category in "UniQuest Trailblazer competition", an annual competition for innovative ideas; UniQuest "University of Queensland", St Lucia, Queensland, Australia.
2. 2006, Australian Postgraduate Award (APA), University of Technology, Sydney, Ultimo, Sydney, NSW, Australia.
3. 2002, Scholarship for studying Master and Doctor of Philosophy in Software Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan.
4. 1999, Rank one out of 35 Bachelor's students, Department of Electrical Engineering, Mutah University, Karak, Jordan.

REFERENCES

Dr. Adel Al-Jumaily

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