



Name : AH M A D A L - Q E R E M

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IT/ CIS

**Academic Rank: Professor**

**Membership:**

1	Program Committee Chair of international Arab conference of e-technology IACe-T
2	Technical Program Committee (TPC) member of international Arab conference on information technology ACIT
3	Technical Committee the International Arab Journal of Information Technology (IAJIT).
4	Editorial board member in Journal of control engineering and technology ICET.
5	Member of the International Association of Engineers (IAENG).
6	Hashemite Kingdom of Jordan Ministry of Higher Education and Scientific Research: Amman, Capital, JO 2017-06-15 to 2017-09-15   Competency exam committee
7	Member of the scientific committee
8	Member of the University Proficiency Examination Committee

**Qualifications:**

1	Ph.D. in Mobile Computing (September 2008) Loughborough University, UK Research Interests – Transaction Processing over Wireless Computing Environments.
2	M.S. in Computer Science, (March 2002) (GPA- 3.86/4) University of Jordan, Amman Research Interests – Concurrency Controls, Mobile Computing, Mobility Management
3	Bachelor of Science in Applied Mathematics/System analysis (June 1997) (GPA –



71.9%) Rank =3 (JUST), Jordan University of Science and Technology, Jordan, Irbid Research Interests – System analysis.
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**Professional Objective(s):** Looking for a challenging R&D position that could best utilize my skills

## Teaching Experience:

1. Undergraduate Teacher Assistant – Computer Science Dept, Jordan University, Amman (Oct 2000 – Aug 2002)
2. Undergraduate Lecturer- Computer Science Dept, Zarka Private University, Zarka-Jordan Sep2002- August 2008)
3. Assistance Professor - Computer Science Dept, Zarka Private University, Zarka-Jordan August 2008- 2010)
4. Assistance Professor – Internet Technology Dept, Zarka Private University, Zarka-Jordan August 2010- 2014)
5. Chairman of Computer Science Department. Summer 2009, Zarqa University.
6. Chairman of Internet Technology Department, 2010, 2011, 2012, 2013 Zarqa University.
7. Associate Professor – Software Engineering Dept, Zarka Private University, Zarka-Jordan August 2014- 2016) Associate Professor – Computer Information Systems Dept, Zarka Private University, Zarka- Jordan August 2017-now)
8. Associate Professor – Computer Science Dept, PSUT University, Amman 2018-2019( sabbatical leave)

I have teaching experience previously in the following fields:

- Logic Design Computer Organization,
- Artificial Intelligence, Expert Systems,
- Discrete Math, Computation Theory,
- Database Systems, Advanced Database Management,
- (Special Topics in Mobile Computing),
- Compiler design course - Hashemite University
- Advanced Database Management /Master Course
- Data Mining /Master Course -Zarqa University
- Algorithm design /Master Course - PSUT University
- Artificial Intelligence/Master Course- PSUT University



## GRADUATE STUDENT SUPERVISION

- Mohammad BadriAlrefai December 2016, Main supervisor (MSc Student. At Zarqa University –Zarqa Jordan) Thesis title:” Rogue Access Point Localization Using Particle Swarm Optimization
- Mohammad Abdulrahim May, 2016 Main supervisor (MSc Student. At Zarqa University –Zarqa Jordan) Thesis title “An Enhanced Keyword Selection Technique for Document Clustering”
- Mohammed Nazzal Elewei December, 2015 Main supervisor (MSc Student. At Zarqa University –Zarqa Jordan) Thesis title “An Efficient Heuristics for Grid Computing Environment“.
- Khairi Blaou, 2018 Main supervisor (MSc Student. At Zarqa University –Zarqa Jordan) Towards developing an Efficient EEG Classification Model Based on DWT"
- Mohammad Al-mamoun" Saleh Mohammad Al-husban 2019 Main supervisor (MSc Student. At Zarqa University –Zarqa Jordan) Swarm Robotics for Search and Rescue: A New Approach

## PUBLICATIONS

### ISI-Indexed Journal Papers:

A. al-Qerem, W.Hussak, “Modeling Data Scheduling for Mobile Transaction in Broadcasting Environments” the International Arab Journal of Information Technology (IAJIT), Volume 5, No. 4, October 2008. Pp 375- 380, Published (ISI-Indexed Journal, 0.7 impact factor).



A. Hamarsheh, M. Goossens, A. al-Qerem, "Assuring Interoperability between Heterogeneous (IPv4/IPv6) Networks without Using Protocol Translation", on the IETE Technical Review Journal, April 2012 issue 2 Vol. 29, 2012. DOI: 10.4103/0256-4602.95384 April 2012, Published (Taylor and Francis, 1.8 impact factor).

I. Jebreen and A. Al-Qerem " Empirical Study of Analysts' Practices in Packaged Software implementation at Small Software Enterprises" International Journal of Information Technology (IAJIT), Volume 14, No. 6.A, 2017. Pp 543- 551 Published (ISI-Indexed Journal, 0.7 impact factor)

A. Al-Qerem, A. Hamarsheh, Y. A. Al-Lahham and M. Eleyat, "Scheduling of Concurrent Transactions in Broadcasting Environment," KSII Transactions on Internet and Information Systems, vol. 12, no. 4, pp. 1655- 1673, 2018. DOI: 10.3837/tiis.2018.04.014. ISSN: 1976-7277 Published (TIIS, 0.61 impact factor).

I. Jebreen and A. Al-Qerem " Critical Proficiencies for Requirements Analysts: Reflect a Real-world Needs" International Journal of Information Technology (IAJIT), Volume 14, No. 3.A, 2018. Pp 626- 632, Published (ISI-Indexed Journal, 0.71 impact factor)

Alauthman; Aslam; Alkasassbeh; Khan; Al-Qerem; Kim-Kwang; ChooAn "Efficient Reinforcement Learning- Based Botnet Detection Approach" Journal of Network and Computer Applications 10/2020 Elsevier. Published online. (Elsevier, 5.2 impact factor). Published

Al-Qerem, A., Alauthman, M., Almomani, A. et al. "IoT transaction processing through cooperative concurrency control on fog–cloud computing environment" Soft Computing (2019). Springer <https://doi.org/10.1007/s00500-019-04220-y> Published (Springer, 2.7 impact factor).



A Al-Qerem, “General Model for Best Feature Extraction of EEG Using DWT Wavelet family and Differential Evolution”, International Journal of Distributed Sensor Networks 2020-SAGE. Accepted Paper, (SAGE, 1.61 impact factor).

A Al-Qerem, Batool ALArmouty, Saleh Abu-soud, Mohammad Alauthman “An Efficient Machine-Learning Model Based on Data Augmentation for Pain Intensity Recognition Egyptian Informatics Journal 2020 Elsevier. Accepted Paper, (Elsevier, 2.3 impact factor).

Scopus-Indexed Journal Papers:

A. al-Qerem, Ala Hamarsheh, Shadi Nashwan” Occ-Mix Approach for Concurrent Mixture of Fixed and Mobile Transactions” Journal of Digital Information Management Vol 15,5 P272-288, October 1, 2017, Scopus Indexed

A Al-Qerem, A Hamarsheh “” Statistical-Based Heuristic for Scheduling of Independent Tasks in Cloud Computing ””. International Journal of Communication Networks and Information Security (IJCNIS) Volume 10, No. 2, 2018 ISSN: 2076-0930, pp 358- 365 Scopus Indexed

A Al-Qerem, “Blockchain Implementation of roaming services for mobile network operators (MNOs) application” International Journal of Communication Networks and Information Security (IJCNIS) Volume xx, No. x, Accepted Paper 2019 Scopus Indexed

A Al-Qerem, “Self-Organized Circular Shape Formation of Swarm Robots using Self Collective Motion “,International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE) - Scopus Indexed - ISSN 2278 – 3091 Vol.8 No 5,2019, pp 2054 - 2061

A Al-Qerem, Arwa ahmad “Human Body Poses Recognition Using Neural Networks with Data Augmentation" has been accepted for publication in Vol.8 No 5 of IJATCSE. 2019 (Scopus Indexed), ISSN 2278 – 3091 pp 2117 – 2120



A Al-Qerem, "Victim Localization Using Darwinian Imperialist Competitive algorithm " has been accepted for publication in Journal of Theoretical and Applied Information Technology (Scopus Indexed) 15th November 2019 -- Vol. 97. No. 21 – 2019, ISSN 1992-8645, PP 3031-3042

A Al-Qerem, etl , "Model improvement through comprehensive preprocessing for Loan Default Prediction", International Journal of Scientific & Technology Research - Scopus Indexed -ISSN 2277-8616, to be published in February 2020- Accepted Paper

Others-Indexed Journal Papers:

A. al-Qerem," Dynamic Allocation of Abundant Data along Update Sub-cycles to Support Update Transactions in Wireless Broadcasting", IJACSA) International Journal of Advanced Computer Science and Applications, Volume 5– Issue 3, March 2014

A. al-Qerem, "Framework for Transaction Execution Strategies in Mobile Data Base Systems," International Journal of Electronics and Electrical Engineering, Vol. 1, No. 1, pp. 15-18, March 2013. doi: 10.12720/ijeee.1.1.15-18

A. al-Qerem, "Performance Analysis of Concurrency Control Using Locking in Mixture Transactions Environment", Journal of Emerging Trends in Computing and Information Sciences. Vol. 6, No. 1 Jan 2014 ISSN 2079-8407 Jan 2014.

A al-Qerem," Performance Evaluation of Transaction Processing in Mobile Database Systems", International Journal of Database Management Systems (IJDMS), Vol 6. Issue.5 May 2014.

A. al-Qerem," Analytical Performance of Delay due to Bandwidth Variability in Concurrent Transactions Mixture", International Journal of Computer and Information Technology (ISSN: 2279 – 0764) Volume 3– Issue 3, March 2014



F. Omar T. Alhmiedat A. Al-Qerem” Fulfilling Needs of Newly Enrolled Students: A Cultural Study of a Mobilized Guidance System”, International Journal of Computer Applications (0975 – 8887) Volume 99– No.3, August 2014 , pp 8-17

A. al-Qerem, B. Shrah, R. Nino,”Mobile Application for Commuters with Absence of Bus Scheduling Time in Developing Country: Jordan as Case Study”, International Journal of Computer and Information Technology (ISSN: 2279 – 0764) Volume 04 – Issue 06, November 2015 pp 888- 894

Mohammad Rasmi, A. al-Qerem,” PNETA: a Proposal Approach for Proactive Network Forensics Evidence Analysis to resolve Cyber Crimes”, I. J. Computer Network and Information Security, 2015, 2, 25-32 Published Online January 2015 in MECS (<http://www.mecs-press.org/>) DOI: 10.5815/ ijcnis.2015.02.03 M ISSN: 2074-9090

A Al-Qerem , Virtual Dressing Room Implementation Using Body Image –Clothe Mapping, International Journal Of Engineering And Computer Science ISSN:2319-7242 Volume – 5 Issue -02 February, 2016 Page No. 15859-15862

A Al-Qerem, “Face Detection and Recognition Using Fusion of Color Space Models” International Journal of Computer Science and Electronics Engineering (IJCSEE) Volume 4, Issue 1 (2016) ISSN 2320–4028 Pp12-16

#### Conference papers

A. al-Qerem, (2005), “Congestion control by using a buffered omega network”, In N. Guimarães & P. T. Isaías (eds.), IADIS AC (p./pp. 429-434), : IADIS. ISBN: 972-99353-6-X, Portugal. 2005.

A. al-Qerem, Walter Hussak, "Mixed Mobile and Fixed Transactions Scheduling in Mobile Computing Environment", PGNET, Liverpool University, UK 2007

A. al-Qerem, W.Hussak, “Concurrency Control for Moflex Transaction Model” has been published in the proceedings of the 2005 International Conference on Communication and Information Technology ICIT 2005, Jordan, 2005



A. al-Qerem, W.Hussak, "Location dependent transactions for mobile environment", this paper appears in proceedings of the IEEE International Conference on information and communication technologies (ICTTA' 06), Page(s): 2926- 2928, 2006

A. al-Qerem, "Concurrency control for mobile transactions in presence of bandwidth variability". In Proceedings of the ACM international conference on Computers and Computing (ICCC'11), Wisconsin, USA, pp 57-60. 2011.

A. al-Qerem," Impact of mobility on concurrent transactions mixture" In Proceedings of the ACM international conference on Computers, digital communications and computing pp 116- 123 USA, 2011.

A. al-Qerem, S.Madan, W.Quaider,A.Hamad" Integrated monitoring application of patient progression: Clubfoot patient progression as case study", IEEE International Conference on Web Applications and Networking (WSWAN), Tunisia, March 2015

Salem, Amer O. Abu and Ahmad H. Al-Qeerm. "Classification of transaction models in mobile database system." IEEE International Conference on Web Applications and Networking (WSWAN), Tunisia, March 2015.

F. Awad, M. Al-Refai and A. Al-Qerem, "Rogue access point localization using particle swarm optimization," 2017 8th IEEE International Conference on Information and Communication Systems (ICICS), Irbid, 2017, pp. 282-286. doi: 10.1109/IACS.2017.7921985

A Al-Qerem, etal "Privacy Preserving of Shared Data in Deep Learning" to be appears in proceedings of the 20th International Arab Conference on Information Technology (ACIT'2019) IEEE International Conference on information technology, 3rd Dec 2019 - 5th Dec 2019. Al Ain University, UAE





A Al-Qerem, etal” Image Generation Using Different Models Of Generative Adversarial Network” to be appears in proceedings of the 20th International Arab Conference on Information Technology (ACIT'2019) IEEE International Conference on information technology, 3rd Dec 2019 - 5th Dec 2019. Al Ain University, UAE

Book Chapters:

I Jebreen, M Awad, A Al-Qerem A Propose Model for Shared Understanding of Software Requirements (SUSRs) Information Science and Applications (ICISA) 2016, 2016 Springer Book Chapter pp 1045-1056, Part of the Lecture Notes in Electrical Engineering book series (LNEE, volume 376)

A Al-Qerem, etal “Network-Based Detection of Mirai Botnet Using Machine Learning and Feature Selection Methods” Book Chapter, Ch16, Handbook of Research on Multimedia Cyber Security, IGI global, April 2020

**Personal Information**

Name	Ahmad al-Qerem	
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