

Dr. Qutaibah A. Althebyan

Associate Professor

Software Engineering Department

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PERSONAL INFORMATION

Nationality: Jordanian

Date of Birth: June 18, 1978

EDUCATION

- Ph.D. in Computer Science, August 2008
 - The University of Arkansas – Fayetteville, Arkansas, USA
 - Dissertation Title: “Design and Analysis of Knowledge-Base Centric Insider Threat Models”
 - GPA: 4.0 / 4.0
 - Advisor: Prof. Brajendra Panda
- M.Sc. in Computer and Information Science, April 2003
 - The University of Michigan – Dearborn, Michigan, USA
 - GPA: 3.8 / 4.0
- B.S in Applied Mathematics, June 2000
 - Jordan University of Science and Technology (JUST) – Irbid, Jordan
 - Majored in System Programming
 - GPA: 86.3
 - Ranked 1st among 90 Students

AWARD RECEIVED

- University Honored Students for full GPA (4.0 out of 4.0) in (2008), University of Arkansas Fayetteville, USA
- Research Assistant (2004-2008) from the department of Computer Science and Computer Engineering at University of Arkansas - Fayetteville.
- A scholarship to pursue M.Sc. and Ph.D. (2002-2008) from Jordan University of Science and Technology.
- Graduated at the top of class among 90 students in the B.S. , JUST
- Dean’s and President’s Honor List six of ten semesters, JUST

ACADEMIC EXPERIENCE

- 3/2017 – Present: Associate Professor Software Engineering Department
Jordan University of Science and Technology, Jordan
- 9/2009 – 2/2017: Assistant Professor, Software Engineering Department
Jordan University of Science and Technology, Jordan
- 8/2008 – 9/2009: Assistant Professor, Computer Information Systems Department
Jordan University of Science and Technology, Jordan
- 1/2010 – 1/2012: Adjunct Professor
New York Institute of Technology (NYiT) – Amman Campus, Jordan
- 8/ 2004 – 8/ 2008: Research Assistant, Computer Science and Computer Engineering
University of Arkansas - Fayetteville, USA
- 8/2001 – 5/2003: Lab Proctor, Computer Science Department
University of Michigan – Dearborn, USA
- 8/2000- 12/2001: Lab Supervisor, Computer Science
Jordan University of Science and Technology, Jordan

RESEARCH INTERESTS

My research interests include computer security (especially insider threat management and knowledgebase management), cloud computing and cloud security, insider threat in the cloud, database and database security. I am also interested in software engineering especially object – oriented software metrics. Health information system is a new direction that I am researching especially finding solutions for health problems that are intersected with cloud computing.

PUBLICATIONS

Journal Publications:

1. **Qutaibah Althebyan**, Yaser Jararweh, Qussai Yaseen, Mahmoud Al-Ayyoub. “Cloud Support for Large Scale E-Healthcare Systems”. *Annals of Telecommunications Journal* 2016, Vol 71, Issue 9, pp: 503 – 515, September 2016 [DOI: 10.1007/s12243-016-0496-9], (**Impact factor:0.70**).
2. **Qutaibah Althebyan**, Yaser Jararweh, Qussai Yaseen, Omar AlQudah, Mahmoud Al-Ayyoub. “Evaluating Map Reduce Tasks Scheduling Algorithms over Cloud Computing Infrastructure”. *Concurrency and Computation: Practice & Experience Journal*, Wiley Vol 27, Issue 18, pp: 5686-5699, July 2015, [DOI: 10.1002/cpe.3595], (**Impact factor: 1.0**).
3. Mahmoud Al-Ayyoub, Yaser Jararweh, Mustafa Daraghmeh, **Qutaibah Althebyan**. “Multi-Agent Based Dynamic Resource Provisioning and Monitoring for Cloud Computing Systems Infrastructure”. *Cluster Computing Journal*, Springer, March 2015 [DOI: 10.1007/s10586-015-0449-5], (**Impact factor: 1.51**).

4. Qussai Yaseen, **Qutaibah Althebyan**, Brajendra Panda, Yaser Jararweh. "Mitigating Insider Threat in Cloud Relational Databases". *Journal of Security and Communication Networks*, Wiley 2016, [DOI: 10.1002/sec.1405], **(Impact factor:0.72)**.
5. Qussai Yaseen, Yaser Jararweh, Brajendra Panda, **Qutaibah Althebyan**. "An Insider Threat Aware Access Control for Cloud Relational Databases". *Cluster Computing Journal*, Springer, March 2017, [DOI: doi:10.1007/s10586-017-0810-y], **(Impact factor: 1.51)**.
6. **Qutaibah Althebyan**, Omar Alqudah, Yaser Jararweh, Qussai Yaseen. "A Scalable Map Reduce Tasks Scheduling: A Threading Based Approach". *International Journal of Computational Science and Engineering (IJCSE)*, Vol. 14, No. 1, 2017.
7. Mahmoud Al-Ayyoub, Yaser Jararweh, Mustafa Daraghmeh, **Qutaibah Althebyan**. "Towards Improving Resource Management in Cloud Systems using a Multi-Agent Framework". *International Journal of Cloud Computing (IJCC)*, Vol. 5, Nos. 1/2, 2016.
8. Raed Shatnawi, **Qutaibah Althebyan**, "An Empirical Study of the Effect of Power Law Distribution on the Interpretation of OO Metrics," *ISRN Software Engineering*, vol. 2013, Article ID 198937, 2013.

Conference Publications:

9. **Qutaibah Althebyan**, Hassan Najadat, Bushra AlZa'areer. "Performance Evaluation for Higher Educational Institutions within Data Envelopment Analysis". In *Proceedings of The 5th International Conference on E-Learning and E-Technologies in Education (ICEEE2016)*, Malaysia September 6 – 8, 2016, pp:37 – 43.
10. **Qutaibah Althebyan**, Rami Mohawesh, Qussai Yaseen and Yaser Jararweh. "Mitigating Insider Threats in a Cloud Using a Knowledgebase Approach while Maintaining Data Availability". In *Proceedings of the 10th International Conference for Internet Technology and Secured Transactions (ICITST-2015)*, London, UK, December 2015, pp: 226 – 231.
11. Rami Mohawesh, **Qutaibah Althebyan**, Qussai Yaseen and Yaser Jararweh. "A Knowledge Base Insider Threat Prevention Model in a Cloud Data Center". In the *Proceedings of the 3rd International IBM Cloud Academy Conference (ICA CON 2015)*, Budapest, Hungary, May 21 – 23, 2015.
12. **Qutaibah Althebyan**, Omar AlQudah, Yaser Jararweh, Qussai Yaseen "Evaluating Map Reduce Tasks Scheduling Algorithms over Virtualized Infrastructure". In the *Proceedings of the 2nd International IBM Cloud Academy Conference (ICA CON 2014)*, Atlanta, Georgia USA, May 8 – 9, 2014.
13. Mahmoud Al-Ayyoub, Mustafa Daraghmeh, Yaser Jararweh and **Qutaibah Althebyan**. "Multi-Agent Based Dynamic Resource Provisioning and Monitoring In Cloud Computing Systems". In the *Proceedings of the 2nd International IBM Cloud Academy Conference (ICA CON 2014)*, Atlanta, Georgia USA, May 8 – 9, 2014.

14. **Qutaibah Althebyan**, Omar AlQudah, Yaser Jararweh, Qussai Yaseen “Multi-Threading Based Map Reduce Tasks Scheduling”. In the Proceedings of the 5th International Conference on Information and Communication Systems (ICICS 2014), April, 2014, Jordan.
15. Qussai Yaseen, **Qutaibah Althebyan**, Yaser Jararweh, “PEP-Side Caching: An Insider Threat Port”. The 14th IEEE International Conference on Information Reuse and Integration (IRI 2013) San Francisco, California, USA, August, 2013.
16. Raed Shatnawi, **Qutaibah Althebyan**, Baraq Ghalib, Mohammad Molaji “Building A Smart Academic Advising System using Association Rule Mining”, 4th International Conference on Information and Communication Systems (ICICS 2013), Jordan, 2013.
17. Nahla Shatnawi, **Qutaibah Althebyan**, Wail Mardini. “Detection of Insiders Misuse in Database Systems” The International MultiConference of Engineers and Computer Scientists (IME, Mar 2011), Hong Kong, March 2011.
18. **Qutaibah Althebyan**, Brajendra Panda. “Performance Analysis of an Insider Threat Mitigation Model”. In Proceedings of the 3rd International Conference on Digital Management (ICDIM 2008). University of East London, London UK, 2008.
19. **Qutaibah Althebyan**, Brajendra Panda. “A Knowledge-Based Bayesian Model for Analyzing a System after an Insider Attack”. In Proceedings of the 23rd IFIP International Information Security Conference (SEC 2008), Milan, Italy, September 8-10, 2008. [**Acceptance Rate = 28%**]
20. **Qutaibah Althebyan**, Brajendra Panda. “Knowledge Extraction and Management for Insider Threat Mitigation”. In Proceedings of the 6th International Workshop on Security in Information Systems (WOSIS 2008), In Conjunction with ICEIS 2008, Barcelona, Spain, June 12-13, 2008.
21. **Qutaibah Althebyan**, Brajendra Panda. “A Knowledge-Base Model for Insider Threat Prediction”. In Proceedings of the 2007 IEEE Workshop on Information Assurance (IAW’07). United States Military Academy, West Point, New York, June 20-22, 2007.

RESEARCH FUNDING AND GRANTS

- **PI. (CO-PI: Yaser Jararweh, CO-PI: Qussai Yaseen).** “Cloud-Based E-Health Management Systems”.
Funding Agency: Jordan University of Science and Technology (JUST), Jordan.
Duration: June 2016 – June 2018.
Amount: \$9350

ADMINISTRATIVE EXPERIENCE

- 9/2015 – Present: Acting Chair of Software Engineering Department
Jordan University of Science and Technology, Jordan
- 9/2011 – 9/2013: Acting Chair of Software Engineering Department
Jordan University of Science and Technology, Jordan
- Establishment of the department of Software Engineering
- Development of the Software Engineering Curriculum according to IEEE/ACM

- Establishment of the department laboratories in the department of Software Engineering
- Recruiting people (staff members, lecturers, and lab supervisors)

TEACHING EXPERIENCE

- **Courses Taught at JUST**
 - Visual Basic Programming
 - Introduction to Web Design
 - Operations Research
 - Information Security
 - Business Data Communications and Networks
 - Software Engineering Fundamentals
 - Software Modeling
 - Requirements Engineering
 - Software Security
 - Graduation Project I
 - Graduation Project II
 - Field Training

- **Courses Taught at NYIT (Master Level Courses)**
 - System Analysis and Design
 - Decision Support Systems
 - Cryptography

CURRICULUM AND COURSE DEVELOPMENTS

- Curriculum Development for the BSc program in Software Engineering at JUST.
(2015/2016 Curriculum based on IEEE/ACM standard)
- Curriculum Development for the MSc in Software Engineering (Not approved yet).
- Designing the Fundamentals of Software Engineering course
- Designing the Software Modeling Course
- Designing the Software Requirements Engineering Course
- Designing the Software Security Course

TECHNICAL SKILLS

- **Operating Systems:** Unix based systems (Linux, Solaris), Apple Macintosh, Windows
- **Programming Languages:** Pascal, C, C++, Java, UNIX Shell, Perl, Matlab, HTML, XML, Oracle.
- **Tools and Applications:** Adobe Photoshop, Matlab, Latex, Access, Mathematica, SPSS.
- **Databases:** ORACLE 8.0, MS-Access

- **Platforms:** Windows, UNIX, Linux, Mobile Platforms
- **Development Frameworks:** Eclipse, Visual Studio .NET, Sun JDK, Rational Rose, Microsoft Visio, CVS
- **Understand:** Software metrics collection tools

SENIOR PROJECTS SUPERVISED (Sample)

- Heartbeat and Stress Mobile Application (An Android Application)
- 3 D network Game for Android devices
- Android Application for Diabetes
- Controlling pc Via Mobile Phone (An Android Application)
- An Android Application for Eye Testing System (ETS)
- ScanNote Android Application
- Hear Me Application
- Speech To Text Note Application
- Styleie (A social network for styles)

MASTER THESIS SUPERVISED

- **Nahla Shatnawi**, “Detection of Insiders Misuse in Database Systems”, 2011
- **Omar ALQudah**, “Multi-Threading Based Map-Reduce Tasks Scheduling”, 2014
- **Rami Mohawesh**, “Proactive Insider Threats Mitigation in a Cloud Data Center: A Knowledgebase Approach”, (In Progress)
- **Bushra Al Za’areer**, “Clustering Analysis for Evaluating Efficiency of Higher Educational Institutions”, (In Progress)

MASTER THESIS EXAMINED

- **Ahmad AlZu’bi**, "A Quantitative Assessment of the Lack of Correspondence between Design and Implementation Attributes Using Object-Oriented Metrics", JUST, 2009.
- **Huda AL-Azzeh**, “A Rule-Based Computerization of Advanced Tajweed Rules”, JUST, 2009.
- **Sandrella Mahjoob**, “Using Aspect-Oriented Programming to Secure the Broken Authentication and Session Management on Web Application”, Philadelphia University, 2009.
- **Yazan Shboul**, “Applying Data Mining on Software Cost Estimation Using a Classification Model”, JUST, 2011.
- **Ala’ Darabseh**, “An Experimental Framework for Software Defined Secure Storage Systems”, JUST, 2015.
- **Hanan Hamdan**, “Precise Performance Characterization of the Antivirus on the File System Operation”, JUST, 2016.

ACADEMIC SERVICES

Information Systems Department, JUST

- Curriculum committee
- Research committee
- Promotion/appointment committee
- Student advising committee chair

Software Engineering Department, JUST

- Department brochure
- Department vision, mission, and objectives
- Curriculum committee chair
- Research committee chair
- Promotion/appointment committee chair
- Courses description translations

Faculty of Computer & Information Technology, JUST

- Faculty Council 2011 – 2013
- Faculty Council 2015 - 2016
- Promotion/appointment committee
- Accreditation and quality assurance committee

CONFERENCES ORGANIZING (Serving as PC Chair/Member)

- The 1st International workshop on Big Data and Social Networking Management and Security (BDSN 2013) in conjunction with the 8th International Conference for Internet Technology and Secured Transactions (ICITST 2013).
- The 2nd International workshop on Big Data and Social Networking Management and Security (BDSN 2014) in conjunction with the 7th IEEE/ACM International Conference On Utility and Cloud Computing (UCC 2014).
- The 3rd International workshop on Big Data and Social Networking Management and Security (BDSN 2015) in conjunction with the 8th IEEE/ACM International Conference On Utility and Cloud Computing (UCC 2015).
- The International Workshop on Internet of Things, Systems, Management and Security (IOTSMS-2014) in conjunction with the 11th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2014).
- The 4th International Conference on Information and Communication Systems (ICICS 2013), Irbid, Jordan

- The 5th International Conference on Information and Communication Systems (ICICS 2013), Irbid, Jordan
- The 6th International Conference on Information and Communication Systems (ICICS 2013), Amman, Jordan

REFERENCES

- Available upon Request