

Ja'far Alqatawna, PhD

C.V.

Associate Professor, Information Security
King Abdullah II School for Information Technology
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Personal Information

Resident of:	Amman, Jordan
Nationality	Jordanian
Date of Birth:	28 Apr, 1981
Gender:	Male
Marital Status:	Married with three children

Education

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| <i>October 2010</i> | – PhD. – Computer Information Systems & Technology/Information Security & E-Business, Faculty of Art, Computing, Engineering and Sciences, Sheffield Hallam University, Sheffield, UK |
| <i>September 2006</i> | – MSc. – Information & Communication System Security.
The Royal Institute of Technology (KTH), Stockholm, Sweden.
Average Grade (4.6 / 5). |
| <i>January 2004</i> | – BSc. – Computer Engineering.
Computer Engineering Department,
Mu'tah University, Mu'tah, Jordan
Accumulative Average (80.43%). |
| <i>July 1999</i> | – High School – Scientific stream
Al Mazar secondary school, Al Karak, Jordan
High school GPA 90.3%. |

Research Interests

Applied Information and Communication Security, Secure Software Engineering, Cyber Threats, Security Intelligence, OSN Security, Web Security, E-Business Security, Continuous Authentication and Behavioral Biometrics.

Positions

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| <i>June 2015- until now</i> | ✓ Associate Professor , King Abdullah II School for IT (KASIT), The University of Jordan (UoJ). |
| <i>Sep 2014 - until now</i> | ✓ Head of Department – Business Information Technology Department, KASIT, UoJ |
| <i>Sep 2014 - until now</i> | ✓ MSc. Programme Coordinator , MSc in Web Intelligence. KASIT. |
| <i>2011 - 2012, 2013 - 2014</i> | ✓ Faculty Council member . KASIT, UoJ. |
| <i>Sep 2012 - May 2014</i> | ✓ Assistant Technical Director , Computer Centre, UoJ. |
| <i>Nov 2010 - May 2015</i> | ✓ Assistant Professor , King Abdullah II School for IT, UoJ. |
| <i>April 2006 - Sep 2006</i> | ✓ Research Assistant , Swedish Institute of Computer Sciences(SICS), Security, Policy and Trust lab (SPOT), Stockholm, Sweden. |
| <i>Jan 2004 - Jan 2005</i> | ✓ Service Desk Consultant & Technical support Engineer , FDS, UAE |

Teaching	
BSc. level	MSc. level
1. Network Security & Cryptography	1. Information Security
2. Information Security Risk Management	2. Secure Software Development
3. E-Business Security	3. Web Application Security
4. E-Business	4. Research Methods and Scientific Writing
5. Web Application Development using XHTML, CSS & JavaScript	
6. Web Application Development using PHP & MySQL	
7. Information Technology Fundamental	
8. C++ programming	
Supervision	
University of Jordan, Jordan	<ul style="list-style-type: none"> ✓ 2 students, MSc. in Web Intelligence. ✓ 3 students, MSc. in CIS.
Princess Sumaya University for Technology. Jordan	<ul style="list-style-type: none"> ✓ 4 students, MSc. in Information System Security and Digital Criminology.
Sheffield Hallam University, UK	<ul style="list-style-type: none"> ✓ 8 students, various MSc computing projects, Sheffield Hallam University, Sheffield, UK. ✓ 1 PhD students, Sheffield Hallam University, Sheffield, UK.
Funded Projects	
Project Name	Funding Agency
1. Developing email spam detection systems based on evolutionary algorithms for academic networking environments (in progress).	<ul style="list-style-type: none"> ✓ Deanship of Scientific Research, University of Jordan.
2. Early detection of extremism and radicalism over online social networks using advanced computational intelligent methods (initiated).	<ul style="list-style-type: none"> ✓ National Scientific Research Support Fund(passed 1st stage)
3. Analysing payment cards security posture in Jordan (in progress).	<ul style="list-style-type: none"> ✓ Deanship of Scientific Research, University of Jordan.
4. Cryptographically Secure Random Generator (finalised).	<ul style="list-style-type: none"> ✓ Self-funded.
5. A Cryptographic-based security system to protect sensitive data transmitted over a non-secure communication channel (closed).	<ul style="list-style-type: none"> ✓ King Abdullah II Design & Development Bureau KADDB, Jordan
6. Towards a National Qualification Framework in Jordan (in progress)	<ul style="list-style-type: none"> ✓ Erasmus+, EU.

University wide activities	Role
Curriculum development committee, BIT Department	✓ Head of Committee
Curriculum development committee, KASIT	✓ Member
ABET accreditation committee, BIT	✓ Head of Committee
ABET accreditation committee (CS, CIS and BIT)	✓ Member
MSc programmes development committee (Web Intelligence and E-Government)	✓ Member
PhD programme committee, KASIT	✓ Member
Postgraduate committee, BIT	✓ Head of Committee
Postgraduate committee, KASIT	✓ Member
Technical evaluation committee of the UJ camera surveillance system	✓ Head of Committee
Technical evaluation committee of the UJ E-Archiving system	✓ Head of Committee
UJ network infrastructure and information security committee	✓ Member
UJ Computer Centre restructuring to including information security and software quality roles	✓ Assistance Technical Director

Other Academic & Research Activities

Co-founder, Jordan Information Security & Digital Forensics (JISDF) research group www.jisdf.org

Technical Chair, Int. Cyber security and Cyber forensics Conference (CCC 2016), Jordan

Guest Editor, Special Issue on: "Cybersecurity in the Connected World", Int. J. of Electronic Security and Digital Forensics. Inderscience

Editor, Social Media Shaping E-Publishing and Academia, Springer 2017

Visiting Lecturer, GeNeura research group, University of Granada, Spain, Erasmus+ Teaching Mobility scholarship, 2016

PC member, Int. Conference on Information Systems Security and Privacy ICISSP 2017, Portugal

PC member, New Trends in Information Technology NTIT 2017, Jordan.

PC member, IEEE Conference on Applied Electrical Engineering and Computing Technologies AEECT , 2011, 2013 & 2015, Jordan

Organising and scientific committee member Jordan University E-Publishing conference EPUB 2015, 2016, 2017.

Memberships

Organization & Committees	Role	Member since
○ JISDF	Co-founder & member	2015
○ IEEE	Member	2012
○ Jordan Engineers Association	Member	2004
○ Arab Computer Society	Member	2009-2014
○ IFIP Technical Committee 11 Working Group 11.12 on Human Aspects of Information Security and Assurance	Member	2011-2013

Consultancy

- ✓ The Royal Scientific Society, Jordan.
- ✓ Jordan Audit Bureau, Jordan.
- ✓ King Abdullah II Design & Development Bureau KADDB, Jordan.

Publications

JOURNALS

Rodan, A. , Faris, H. and **Alqatawna, J.** (2016) Optimizing Feedforward Neural Networks Using Biogeography Based Optimization for E-Mail Spam Identification. *International Journal of Communications, Network and System Sciences*, **9**, 19-28. doi: [10.4236/ijcns.2016.91002](https://doi.org/10.4236/ijcns.2016.91002).

Malek Al-Zewairi, **Ja'far Alqatawna**, and Jalal Atoum, Risk Adaptive Hybrid RFID Access control System”, Security and Communication Networks, Wiley, 2015.

Ja'far Alqatawna: Improving Knowledge Based Spam Detection Methods: The Effect of Malicious Related Features in Imbalance Data Distribution. *International Journal of Communications, Network and System Sciences* 04/2015; 8(5):118-129. DOI:10.4236/ijcns.2015.85014.

Ja'far Alqatawna: An Adaptive Multimodal Biometric Framework for Intrusion Detection in Online Social Networks. *International Journal of Computer Science and Network Security*;15(4), 2015.

Fida' Al-Obaisi, **Ja'far Alqatawna**, Hossam Faris, Ali Rodan, Omar AlKadi: *Pattern Recognition of Thermal Images for Monitoring of Breathing Function*. DOI:10.14257/ijca.2015.8.6.37

Ja'far Alqatawna. "The Challenge of Implementing Information Security Standards in Small and Medium e-Business Enterprises." *Journal of Software Engineering & Applications* 7.10 (2014).

Mohammad Qatawneh, Ahmad Alamoush, **Ja'far Alqatawna**: Section Based Hex-Cell Routing Algorithm (SBHCR). *The International Journal of Computer Networks & Communications (IJCNC)* .01/2015; 7(1):167-177. DOI:10.5121/ijcnc.2015.7112.

Al-Kadi, Omar, Osama Al-Kadi, Rizik Al-Sayyed and **Ja'far Alqatawna**, "Road scene analysis for determination of road traffic density." *Frontiers of Computer Science*: 1-10. Springer 2014.

Hababeh, I. , Al-Sayyed, R. , **Alqatawna, J.** , Majdalawi, Y. and Nabelsi, M. (2014) Modeling and Simulation Study of Space Data Link Protocol. *Int'l J. of Communications, Network and System Sciences*, **7**, 440-452. doi: [10.4236/ijcns.2014.710045](https://doi.org/10.4236/ijcns.2014.710045).

Rizik M. H. Al-Sayyed, Omar Al-Kadi, **Ja'far Alqatawna**, " Simple Visual Monitoring Tool for Jordanian Traffic, Yet Intelligent", *INFORMATION*, 16, 69-8185, International Information Institute, 2013.

Mohammad Qatawneh, Hamed Bdour, Shrouq Sabah, Rana Samhan, Azzam Sleit, **Ja'far Alqatawna**, Wesam al-Mobaideen: An Alternative Routing Algorithm for Hex-Cell Network. *Information*, 10/2011; 14(10):3499-3514.

BOOK CHAPTERS

Alqatawna, J., et al., "Online social networks security: Threats, attacks and future directions," in *Social Media Shaping e-Publishing and Academia*, Springer, 2017.

Alqatawna, J., et al., "Assessing the Role of Governments in Securing E-Business: The Case of Jordan". in *Emerging Trends in ICT Security*, Elsevier, 2014.

Siddiqi, J., **Alqatawna, J.** & Btoush, M "Do Insecure Systems Increase Global Digital Divide? in: *E-Strategies for Technological Diffusion and Adoption: National ICT Approaches for Socioeconomic Development*, 2010, IGI Global.

CONFERENCES

Ja'far Alqatawna, Ali Hadi, Malek Al-Zwairi, Mariam Khader: *A Preliminary Analysis of Drive-by Email Attacks in Educational Institutes*. Cybersecurity & Cyberforensics Conference 2016, Amman/Jordan; 08/2016, DOI:10.1109/CCC.2016.16

Rola Al Halaseh, **Ja'far Alqatawna**: *Analyzing CyberCrimes Strategies: The Case of Phishing Attack*. 2016 Cybersecurity and Cyberforensics Conference (CCC); 08/2016, DOI:10.1109/CCC.2016.25

Wedyan Alswiti, **Ja'far Alqatawna**, Bashar Al-Shboul, Hossam Faris, Heba Hakh: *Users Profiling Using Clickstream Data Analysis and Classification*. 2016 Cybersecurity and Cyberforensics Conference (CCC); 08/2016, DOI:10.1109/CCC.2016.27

Aisha Zaid, **Ja'far Alqatawna**, Ammar Huneiti: *A Proposed Model for Malicious Spam Detection in Email Systems of Educational Institutes*. 2016 Cybersecurity and Cyberforensics Conference (CCC); 08/2016, DOI:10.1109/CCC.2016.24

Asa'd M. As'ad, Babak Khazaei, Babak Akhgar, **Ja'far Alqatawna**: *Importance of service integration in e-government implementations*. 2016 7th International Conference on Information and Communication Systems (ICICS); 04/2016, DOI:10.1109/IACS.2016.7476086

Albadarneh, A. , Albadarneh , I., **Alqatawna , J.**: Iris Recognition System for Secure Authentication Based on Texture and Shape Features. 2015 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Jordan.

Faris, H., Aljarah, I., **Alqatawna, J.**, Optimizing Feedforward Neural Networks Using Krill Herd Algorithm for E-mail Spam Detection, 2015 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Jordan.

M Al-Zewairi, J Alqatawna, O Al-Kadi , Privacy and security for RFID Access Control Systems: RFID Access Control Systems without back-end database Use SHIFT+ENTER to open the menu (new window). *Applied Electrical Engineering and Computing Technologies (AEECT)*, 2011 IEEE Jordan. IEEE, 2011.

Ja'far Alqatawna, Erik Rissanen, Babak Sadighi, "Overriding of Access Control in XACML," policy, pp.87-95, Eighth IEEE International Workshop on Policies for Distributed Systems and Networks (POLICY'07), 2007

Ja'far Alqatawna, Jawed I. A. Siddiqi, Babak Akhgar, & Mohammad Hjouj Btoush. Towards Holistic Approaches to Secure e-Business: A Critical Review, International Conference on E-Learning, E-Business, Enterprise Information Systems, & E-Government, CSREA EEE 2008: Las Vegas, Nevada, USA.

Ja'far Alqatawna, Jawed I. A. Siddiqi, Babak Akhgar, & Mohammad Hjouj Btoush. A Holistic Framework for Secure e-Business, International Conference on E-Learning, E-Business, Enterprise Information Systems, & E-Government, CSREA EEE 2008: Las Vegas, Nevada, USA.

Alqatawna, J., Siddiqi, J. & Btoush, M. SECURITY IN E-BUSINESS - Understanding Customers Perceptions and Concerns 6th International Conference in Web Information Systems and Technologies, WEBIST, Valencia, Spain. 2010.

References:

available upon request