

KHALID AL-ISSA, PhD

OBJECTIVE

Experienced Assistant Professor with a demonstrated history of working in the information technology and services industry. Expert in cyber security and information security. Skilled in Business Process, Enterprise policy, and Computer Forensics. Strong education professional with a Doctor of Philosophy (PhD) focused in Computer and Information Security from Queensland University of Technology. Thesis title “Authorisation management in business process environment: an authorisation model and a policy model”.

PERSONAL INFORMATION

Nationality: Saudi.	Mobile: +966-5-55143321
Date of birth: 22-7-1979	Marital Status: Married.
Gender: Male.	E-mail : ekhalid@gmail.com

2553 Ibn Yahya Alalaf St. Rawdah 13213-7345 Riyadh, Saudi Arabia

EDUCATION

2010 – 2015 *Queensland University of Technology* Brisbane

Doctor of Philosophy (PhD)

Major: Information security (Access control).

- Authorisation management in business process environment.
- Nominated for the “Outstanding thesis” award.
- SACM award for excellence.
- Introduced a new authorisation management model. Including the conceptual and formal descriptions, and a proof of concept implementation.
- Introduced a new authorisation policy language.
- Presented at the QUT-ISI consortium. Brisbane, Australia. November 2011.
- Presented at the IATA PEMG06 Conference. Brisbane, Australia. January, 2012.
- Presented at the ACISP conference. Brisbane, Australia. June, 2015.
- Published: K. Alissa, J. Reid, E. Dawson, and F. Salim. BP-XACML an authorisation policy language for business processes. In E. Foo and D. Stebila, editors, Information Security and Privacy, volume 9144 of Lecture Notes in Computer Science, pages 307–325. Springer International Publishing, 2015.
- Research and technical expertise were developed during the academic journey such as: conceptualisation using the ‘Object-Role modeling (ORM)’, Set theory, XACML policy modeling. Authorisation management, access control.

2008 – 2009 *Queensland University of Technology*

Brisbane

Master of Information Technology (MIT)

Major: Information security.

- 2nd honors with distinction. GPA 6.1/7 (3.5/4)
- Dean's list award of excellence.
- SACM award for excellence.
- All security skills have been enhanced through obtaining academic projects and hands on experience in different aspects: **Network Security**, **Computer forensics** and **cryptology**. As a sub major **Business Process Management** expertise were developed.
- An awarded project on "**Cross Domain solution**" was completed which aimed to invent a new solution to the non-solved problem of Cross-Domains. The project was requested to be sent to the emergence security response team in Queensland after they reviewed it.
- A paper on "**Enhancement of modeling visualization**" using 3D models was completed during the study. A case study used to prove the effectiveness of the new modeling method.
- A high distinction awarded major project was completed which aimed to develop a comprehensive project plan template that guides a project manager to managing projects efficiently and effectively covering all areas of Industry standard Project Management Body of Knowledge (**PMBOK**). Also creating "Project initiation Document (PID)" for an IT project using **PRINCE2** methodology.

1999 – 2004 *King Saud University*

Riyadh

Bachelor Computer and Information Systems

Major: Computer Engineering.

- Dean's award for creating the first college website for CCIS.
- Graduation project on designing a template web page and integrating the university email system with it. Project is in use by all the university colleges.

RESEARCHS

Patent:

- K. Alissa, H. Ehab, R. Aboualob, R. Alsleebi, R. Alshareef, R. Rawdan, A. Almuhaideb (2018) *16/142.775* USA. United states patent and trademarks office.

Papers:

- Khalid Alissa, J. Reid, E. Dawson, and F. Salim. BP-XACML an authorisation policy language for business processes. In E. Foo and D. Stebila, editors, *Information Security and Privacy*, volume 9144 of *Lecture Notes in Computer Science*, pages 307–325. Springer International Publishing, 2015.
- Khalid Alissa, Jason Reid, Ed Dawson, SPCC: a security policy compliance checker plug-in for YAWL, 2018, *International Journal of Business Process Integration and Management*, 9, 1, 22-3, Inderscience Publishers (IEL).
- Khalid Alissa, Farzad Salim, Jason Reid, Ed Dawson, PAIS Access Control Model Characteristics Analysis, 2018, 1st International Conference on Computer Applications & Information Security (ICCAIS), 1-5, IEEE
- Khalid Alissa, Abdulrahman Alharby, Norah Almubairik, Hanan Alshehri, Shahad Dahdouh, An Instrument to Measure Human Behavior Toward Cyber Security Policies, National conference on computer science, IEEE.

- Al Anood K. Alzahrani, Malak K. Alfosail, Maryam M. Aldossary, Muneera M. Almuhaidib, Sarah T. Alqahtani Nazar A. Saqib, Khalid A. Alissa, Norah A. Almubairik, "Secure Sign: Signing Document Online," *2018 21st Saudi Computer Society - National Computer Conference (NCC)*, Riyadh, 2018, pp. 1-3. doi: 10.1109/NCG.2018.8592954

Conferences (Speaker):

- JUBAIL IIOT Conference, Jubail, 2018
- Future of Cybersecurity in IR4.0, ARAMCO, Dhahran, 2018
- 1st International Conference on Computer Applications & Information Security (ICCAIS), Riyadh, 2018
- ACISP conference. Brisbane, Australia. June, 2015.
- Airport of the future Conference. Brisbane, Australia. March, 2012.
- IATA PEMG06 Conference. Brisbane, Australia. January, 2012.
- QUT-ISI consortium. Brisbane, Australia. November 2011.

PROJECTS

Access control model for a business process environment:

- New access controls model that supports active access control, case handling, task-based access control, and RBAC.
- Conceptualisation of the model using ORM was introduced.
- Formal description of the model using 'set theory' was introduced.
- Implementation of the model in the YAWL environment.
- A case study from 'Brisbane Airport' was used to assess the importance of the new model.

Enhancement of Business Process modeling visualization:

- A 3D modeling concept was built to replace the normal flowchart modeling concepts.

BPM system for the satellite program in KACST:

- As the only BPM specialist in the program I developed the BPM system from scratch, as no framework was available to be used. Starting from defining to the modeling to the analysis and the enhancement, reaching the "to be model".
- System provided a framework for every one to follow and to make it easy to manage and administer work process.
- After installing an enterprise system, BPM system will be used to automate processes,

Designing a Project Management Methodology:

- A project management methodology for the Satellite program in KACST was designed, methodology to be followed and used for any project that would be conducted in the sector.
- I was the group leader, of the group, which designed the methodology.

IPv6 Security:

- A research about the protocol vulnerabilities and a security assessment was done.
- Research was used by organizations migrating to IPv6.

Creating the "Ideal information security course".

- Course is offered, to be thought in most of the Saudi universities.

- I developed the practical part of the course and helped in building the theory part.

ROAM:

- ROAM is the approved Saudi national information security license.
- I was part of the team who developed ROAM, both parts theory and practical.

Creating “Project initiation Document (PID)” for an IT project using PRINCE2 methods.

Designed a template website and integrated a Webmail with the site:

- Project is already applied on all colleges in King Saud University.
- I concentrated on the Webmail and server configuration side

WORK EXPERIENCE

- **Assistant professor [18-11-2015 - Now]**

King Abdulaziz city for science and Technology Riyadh

Beside working on research, I am also working on the following project:

NSIS-MUCS, National Space `information System – Mission and User Centers. I am part of the team leading this project. It aims to establish a national station for all satellite communications.

- **Vice Dean [25-7-2018 – Now]**

Imam Abdulrhman Bin Faisal University – community college Dammam
Responsible for the male section in community college.

- Head of program development for the computer department.

- **Information security consultant [29-8-2018 – Now]**

Imam Abdulrhman Bin Faisal University Dammam

Part of the university information security consultation committee working on the university’s cybersecurity policies and risk assessment.

I was also the “National Cybersecurity authority” communication officer

Part of a consultation group working with the “Incidents and disaster recovery centre” at the Emirate of eastern province. I was working on the information security contingency plans.

- **Visiting professor [6-3-2017 – Now]**

Imam Abdulrhman Bin Faisal University Dammam

Developing and teaching the "Cyber Security and Digital Forensics" program in the College of Computer Science and Information Technology.

- Head of the graduation projects committee.
- Head of students activity unit
- Member cyber security program development committee
- Member cyber security curriculum committee.

- **Researcher [1-5-2010 – 18-11-2015]**

King Abdulaziz city for science and Technology Riyadh

Beside being a researcher, I also worked as a member of the Project Management Office team, I worked on several projects:

As the BPM specialist, worked on modeling all processes in the Satellite program, did analysis on all processes, and redesigned them to get the “to be” model. My work helped in establishing a framework and a guide on how to manage things and how the routine work would be processed. Work to be integrated later, to be automated when the enterprise system is installed.

Designing Project Management Methodology Was the leader of the team that designed the Project Management Methodology for the whole program. Designed

methodology that is currently in use and would be considered to be the enterprise P.M. Methodology for the sector.

▪ **Information Security Consultant [6-11-2009 – 2-12-2010]**

Center of excellence in Information Assurance

Riyadh

Worked on projects:

'Ideal Information Security Course', where the aim of the project is to produce a ready to use package that is to teach information security fundamentals. That package includes slides, tutorials, labs, and all needed information including requirements. The course to be thought in most of Saudi Arabia universities. The preparation of the course went through a large study to decide on teaching methods and subjects to be thought.

ROAM, ROAM is the approved Saudi national information security license. I was part of the team who developed ROAM, both parts theory and practical. ROAM is to be available for everyone to take as a course and to be able to do the test and get the certificate. It would be also a mandatory for some government employees.

Information Security Awareness Program, the program was developed and designed to satisfy awareness requirements for different society levels. My work was concentrated on designing and developing the awareness program for CEOs and for employees. Program is complete and has been offered several times, positive feedback was always received and sometimes asking to do it agene for different set of people.

▪ **Faculty Member [21-08-2004 – 21-08-2007]**

College of Technology

Riyadh

I worked as a faculty member at the computer department. Mostly thought advanced networking. Also I was part of the team who prepared the curriculum for an information security subject.

▪ **Cisco Academy Instructor [01-09-2004 – 01-09-2008]**

Cisco Regional Academy

Riyadh

▪ **System Engineer [20-06-2004 – 21-08-2004]**

Saudi Arabian General Investment Authority

Riyadh

▪ **Network Administrator Assistant [10-03-2003 – 11-06-2003]**

Arab Open University

Riyadh

I helped in teaching labs, and assisting instructors.

I also helped in building and organizing the network.

TEACHING

▪ **Subjects I thought:**

- *Security threats and vulnerabilities* LAU, 2018
- *Network forensics* IAU, 2018
- *Biometric security* IAU, 2018
- *Information security management* IAU, 2017, 2018
- *Networks Lab* QUT, 2009
- *Advanced Networks* TechC, 2006, 2007
- *Introduction to Networks* TechC, 2004, 2005, 2006

▪ **Subjects I can teach:**

- *Introduction to information security*
- *Access control and security models*

- *Information Forensics*
- *Network security*
- *Cyber Laws & Security Policy*
- *Information System Audit*
- *Cryptology*

VOLUNTEER

- Member of Hemaya Cyber security Group [2016 - now] Saudi Arabia
 - *Gave a several presentations on “Social engineering” to public.*
 - *Gave a several presentations on “intro. to cyber security” to public*
 - *Wrote several awareness articles in newspapers.*
- Member of SAFE security volunteers group [2015 - now] Saudi Arabia
- Saudi football team leader and captain. [2011 - 2014] Brisbane
- Vice president of Saudi IT society in Brisbane. [2009 – 2010] Brisbane
- Time management trainer [2004 – 2007] Riyadh
- Gave training sessions on “How to give a good presentation” [2004 – 2008] Riyadh

TRAINING

- **“Managing Research Data”** [7 October 2012] QUT, Brisbane, Australia.
- **“Writing Productively”** [25 July 2011] QUT, Brisbane, Australia.
- **“Managing Your Research: Ethics, IP and Copyright”** [7 March 2011] QUT, Brisbane, Australia.
- **“M.S. Project”** [7-11 August 2010] Zidny (M.S. certified), Riyadh, Saudi Arabia.
- **“Applied Project management”** [10-14 July 2010] PMI, Riyadh, Saudi Arabia.
- **“BPMN – process modeling”** [28-29 April 2009] QUT, Brisbane, Australia.
- **“CCNA 1 (Networking Basics)”** [16-28 February 2005] Cisco Regional academic in CTI, Riyadh, Saudi Arabia
- **“Fundamentals of Unix”** [09-15 September 2004] Cisco Regional academic in CTI, Riyadh, Saudi Arabia.
- **“Interconnecting Cisco Network Devices (ICND)”** [01-12 November 2003] Fast Line Center, Riyadh, Saudi Arabia.
- **“Network Essentials”** [26-03-2003] Orbits Institute for Training, Riyadh, Saudi Arabia.
- **"Creative Thinking"** [02-05-2000] Human Talent, Riyadh, Saudi Arabia

TECHNICAL SKILLS

- **Information Security:** Expert in Access control, Networks Security, Expert in IPv6 security. Cryptology Basics. Good knowledge in Computer forensics.
- **Business Process Management:** good knowledge in BPM life cycle, process improvement and process analysis. Advanced in BPMN.
- **Project management:** Excellent knowledge in PMBOK, designed a methodology. Certified in PRINCE2 foundation.

- **IT management:** good knowledge in Professional development, cloud computing, Service level agreements, and Generation Y management.
- **Networking:** Expert in: Network Designing, Configuring and Troubleshooting.

SOCIAL SKILLS

- Excellent teaching skills
- Excellent skills of Team working.
- Excellent research skills.
- Good team leading skills.
- Good negotiating skills.
- Excellent skills of Speech and doing presentations to the public.
- Good communication skills
- Fast learner.

LANGUAGES

- Arabic (Native Language)
- English (Proficient in Reading, Writing and Speaking) “TOFEL 589”
- Spanish (Beginner).

- Referees available upon request