

# Bandar Alshammari, PhD

University Vice President for Academic Affairs -  
Associate Professor of Software Engineering

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Sakaka Aljouf, Saudi Arabia 📍

17 December, 1982 📅

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## EDUCATION

### PhD in Information Technology (Software Security Engineering)

Queensland University of Technology  
(Australia)

2012

### Master's Degree in Computer and Communications Engineering

Queensland University of Technology  
(Australia)

2007

### Bachelor's Degree in Information Technology

University of Canberra (Australia)

2006

## WORK EXPERIENCE

### Vice President for Academic Affairs

Jouf University

12/2018 - Present

Sakaka Aljouf, Saudi Arabia

### Acting Vice President

Jouf University

07/2020 - Present

Sakaka Aljouf, Saudi Arabia

### Associate Professor of Software Security Engineering

Jouf University

12/2018 - Present

Sakaka Aljouf, Saudi Arabia

### Acting Vice President for Graduate Studies and Scientific Research

Jouf University

08/2019 - 10/2019

Sakaka Aljouf, Saudi Arabia

### Assistant Vice President for Academic Affairs

Jouf University

08/2018 - 12/2018

Sakaka Aljouf, Saudi Arabia

### Assistant Vice President for Graduate Studies and Scientific Research

Jouf University

02/2018 - 08/2018

Sakaka Aljouf, Saudi Arabia

## SKILLS

Complex Problem Solving

Critical Thinking

Project Management

Cognitive Flexibility

Innovative

Service Orientation

People Management

## PUBLICATIONS

B. Alshammari, The Role of Big Data in the Era of Covid-19 Pandemic: A Review Study. (Submitted for Publication)

B. Alshammari, Security Assessment Model for Database Relational Designs, Journal of Medical Imaging and Health Informatics, Volume 9, Number 6, August 2019, pp. 1171-1180(10).

B. Alshammari, Enterprise Architecture Security Assessment Framework (EASAF), Journal of Computer Science, vol. 13, no. 10, pp 558-571

B. Alshammari, Enterprise Architecture Frameworks: A Critique Review from a Security Perspective, International Journal of Computer Applications, Volume 174, issue 5, 2017, pp. 9-15.

S. Nashwan and B. Alshammari, Formal Analysis of MCAP Protocol Against Replay Attack, British Journal of Mathematics & Computer Science 22(1), 2017, pp. 1-14.

B. Alshammari, A Generic Model for Assessing Multilevel Security-Critical Object-Oriented Programs, International Journal of Advanced Computer Science and Applications (IJACSA), Volume 7 Issue 11, 2016, pp. 419-427.

B. Alshammari, Colin Fidge, and Diane Corney. Developing Secure Systems: A Comparative Study of Existing Methodologies, Lecture Notes on Software Engineering, 4(2), 2016, pp. 139-146.

B. Alshammari, An Assessment Model for Security-Critical Enterprise Systems, International Journal of Information and Education Technology, vol 4, no 4, August 2014, IACSIT.

S. Nashwan and B. Alshammari, Mutual Chain Authentication Protocol for SPAN Transaction in Saudi Arabian Banking, Fourth International Conference on Computer Communication and Management, May 21-22, 2014, Paris, France.

## WORK EXPERIENCE

### Dean of Admission and Registration

Jouf University

01/2014 - 03/2019

*Sakaka Aljouf, Saudi Arabia*

### Vice Dean of Admission and Registration

Jouf University

09/2012 - 01/2014

*Sakaka Aljouf, Saudi Arabia*

### Assistant Professor of Information Technology

Jouf University

06/2012 - 12/2019

*Sakaka Aljouf, Saudi Arabia*

### Assistant Professor of Informatics

King Saud bin Abdulaziz University for Health Sciences

02/2012 - 06/2012

*Riyadh, Saudi Arabia*

### Manager of Information Technology

King Saud bin Abdulaziz University for Health Sciences

12/2011 - 06/2012

*Riyadh, Saudi Arabia*

### Information Security Policies and Awareness Analyst

Etihad Etisalat Company, Mobily

10/2007 - 12/2007

*Riyadh, Saudi Arabia*

### Systems Administrator

The Cultural Mission at the Saudi Arabian Embassy

03/2005 - 03/2006

*Canberra, Australia*

## COMMITTEES

Chair of the Standing Committee for Spending Efficiency Achievement (09/2020 - Present)

*Jouf University*

Chair of the Standing Committee for Information Technology Governance (11/2018 - Present)

*Jouf University*

Chair of the Standing Committee for Academic Plans and Curriculum (12/2018 - Present)

*Jouf University*

Chair of the Standing Committee for Academic Staff Affairs (12/2018 - Present)

*Jouf University*

Chair of the Standing Committee for Laboratories and Educational Facilities (11/2018 - Present)

*Jouf University*

Chair of the Standing Committee of Student's Academic Affairs (10/2018 - Present)

*Jouf University*

Chair of the National Center for Assessment (QIYAS) Examination Committee (01/2014 - 03/2019)

*Jouf University*

## PUBLICATIONS

B. Alshammari, C. J. Fidge, and D. Corney. Security metrics for Java bytecode programs. In Proceedings of the Twenty-Fifth International Conference on Software Engineering and Knowledge Engineering (SEKE 2013), Boston, 27–29 June. Knowledge Systems Institute, 2013.

B. Alshammari, C. J. Fidge, and D. Corney. An automated tool for assessing security-critical designs and programs. In M. Khan, A. Mirza, and K. Alghatbar, editors, Proceedings of the Saudi Arabian National Workshop on Information Assurance Research (WIAR 2012), Riyadh, April 18. IEEE/IET Electronic Library, 2012.

B. Alshammari, C. J. Fidge, and D. Corney. Security assessment of code refactoring rules. In M. Khan, A. Mirza, and K. Alghatbar, editors, Proceedings of the Saudi Arabian National Workshop on Information Assurance Research (WIAR 2012), Riyadh, April 18. IEEE/IET Electronic Library, 2012.

B. Alshammari, C. J. Fidge, and D. Corney. A hierarchical security assessment model for object-oriented programs. In R. Hierons and M. Merayo, editors, Proceedings of the 11th International Conference on Quality Software (QSIC 2011), Madrid, July 13-14, 2011.

B. Alshammari, C. J. Fidge, and D. Corney. Assessing the impact of refactoring on security-critical object-oriented designs. In J. Han and T. D. Thu, editors, Proceedings of the Seventeenth Asia Pacific Software Engineering Conference, Sydney, 30 November-3 December. IEEE Computer Society, 2010.

B. Alshammari, C. J. Fidge, and D. Corney. Security metrics for object-oriented designs. In J. Noble and C. J. Fidge, editors, Proceedings of the Twenty-First Australian Software Engineering Conference (ASWEC 2010), Auckland, 6-9 April. IEEE Computer Society, 2010.

B. Alshammari, C. J. Fidge, and D. Corney. Security metrics for object-oriented class designs. In Byoungju Choi, editor, Proceedings of the Ninth International Conference on Quality Software (QSIC 2009), Jeju, Korea, 24-25 August, IEEE Computer Society, 2009.

## HONOR AWARDS AND ACHIEVEMENTS

Prince Abdulrahman Alsudairy Scholarship (2000)

*Prince Abdulrahman Alsudairy Foundation*

- To study undergraduate and graduate studies in Australia as a result of achieving the second highest mark in high school examinations in Aljouf region, Saudi Arabia.

Dean's Award for Excellent Academic Performance (2007)

*Queensland University of Technology*

- Faculty of Built Environment and Engineering Award for Excellent Academic Performance

## COMMITTEES

Member of the Supreme Supervisory Committee for Quality Assurance and Strategic Planning (12/2018 - Present)

*Jouf University*

Member of the Supreme Supervisory Committee for Postgraduate Programs (11/2019 - Present)

*Jouf University*

Member of the Supreme Supervisory Committee for Digital Transformation Services (01/2014 - Present)

*Jouf University*

Chair of the Standing Committee for Conferences and Seminars (02/2018 - 09/2018)

*Jouf University*

Chair of the standing Committee for Agreements and International Cooperation (02/2018 - 09/2018)

*Jouf University*

Chair of Students' Transcripts Digital Archiving Committee (12/2015 - 12/2018)

*Jouf University*

## ORGANIZATIONS

Al Yamamah University (2020 - Present)

*University Trustees Board Member*

Prince Abdulrahman Alsudairy Foundation (2013 - Present)

*Member of the General Assembly*

International Journals and Conferences (2011 - Present)

*Editorial and Program Committee Member*

National Center for Assessment in Higher Education (QIYAS) (2015 - 2016)

*Consultant (Part Time)*

## CERTIFICATES

Implementing Improvement Strategies: Practical Tools and Methods

*Massachusetts Institute of Technology*

Development of Leadership and Management Skills

*European Business Center for Training and Development*

Cisco Certified Network Associate (CCNA)

*CISCO Academy at the Queensland University of Technology*

Programming in .NET and WPF Technologies

*Microsoft Australia*

Strategic Human Resource Management

*University of Queensland*

Leadership Development and Team Building

*University of Queensland*

Negotiating for Positive Outcomes

*University of Queensland*

## HONOR AWARDS AND ACHIEVEMENTS

Award for Excellent Academic Performance (2007)

*Saudi Arabian Cultural Mission*

- Saudi Arabian Cultural Mission Award for Excellent Academic Performance

Award for Excellent Academic Research Publications (2009)

*Queensland University of Technology*

- Faculty of Science and Technology Scholarship at the Queensland University of Technology for Excellence in Academic Research

Best Research Paper Award (2014)

*7th International Conference on Computer Science and Information Technology*

- Awarded the Best Research Paper presented at the 7th International Conference on Computer Science and Information Technology, Barcelona, Spain.

The e-Government Program (YESSER) Award in Services Indicators (2016)

*The e-Government Program (YESSER)*

- Participated in Achieving Jouf University the Platinum Award by leading the team of digital transformation of students services in 2016.

Award for Excellence in Digital Transformation (2019)

*Jouf University*

- University President's Award for Excellence in the Digital Transformation of Students' Services at Jouf University

Participation in Achieving the Institutional Accreditation for Jouf University (2019)

*National Center For Academic Accreditation And Evaluation*

- Participated in Leading teams for a number of standards in achieving Jouf University the institutional accreditation

Participation in Achieving the ABET Accreditation (2020)

*Accreditation Board for Engineering and Technology*

- Participated in achieving Jouf University the ABET Accreditation for the programs at the College of Computer Science and College of Engineering

## RESEARCH INTERESTS

Software Engineering

Artificial Intelligence

Big Data

Information Security

Software Quality Metrics

## LANGUAGES

Arabic

*Native or Bilingual Proficiency*

English

*Native or Bilingual Proficiency*