Ayedh Mohammad Alhajiri

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EXECUTIVE PROFILE

My principle research interests lie in the area of engineering and project management. I focus on the development of theoretical knowledge and operational tools needed for effective management of risk and uncertainty in the context of decision-making, process improvement and project feasibility. I have developed several models such as neural networks and fuzzy logic to solve prediction problems in engineering projects. These models are deemed able to begin to address the issues of absent standardised methodologies in engineering projects such as using fuzzy logic approach to developed a model to build framework for contracting selecting.

My work experience includes roles as Quality and control engineering at Sun Ace Gulf Company in 2006-2008 and Academic Sessional Lecturer Staff Member at Curtin University in 2012-2015.

I am a firm believer that education is an investment in oneself, having recently completed my Ph.D. in Project management from Curtin University at Perth in 2016. I also received a Master degree in Engineering and Technology Management from University of New South Wales, Sydney in 2012.

PROFESSIONAL EXPERIENCE

- Prince Fahad Bin Sultan University

  Assistant Professor   **2018-Present**

  Civil engineering department

- DHAMAN Co.

  Director of Project Management Office (PMO).   **2017-2018**

  Responsible for the service delivery of the organizational function and development of the key PMO deliverable.

- Curtin University, Australia, Perth

  Academic Sessional Lecturer Staff Member   **2012-2016**

  Role and responsibility:

-Graded papers and exams
-Supervised, motivated the undergraduate engineering student on the their final year dissertation.

➢ **Sun Ace Gulf, Saudi Arabia, Jubail**
    Quality and control engineer   **2006-2008**
    My duties involved:
    -Product development and quality control of heat stabilizers and additives of PVC.
    -Determines quality improvement parameters by identifying statistical methods relevant to
     manufacturing processes.
    -Establishes statistical confidence by identifying sample size and acceptable error;
     determining levels of confidence.

EDUCATION

➢ **Ph.D., Engineering Sciences (Engineering and Project Management)**   **2016**
    Curtin University - Perth, WA, Australia
    Thesis title:
    Utilising Artificial Neural Networks (ANNs) Towards Accurate Estimation of Life-Cycle
    Costs for Construction Projects.

➢ **Master of Enginnering Science(Engineering and Project Management)**   **2012**
    University of New South Wales - Sydney, NSW, Australia.

➢ **Bachelor of Engineering Science**   **2006**
    King Saud University - Riyadh, Riyadh, Saudi Arabia

PUBLICATIONS

➢ Alqahtani, A. and Whyte, A., (2016), 'Evaluation of non-cost factors affecting Life Cycle Cost: an exploratory study', The Journal of Engineering Design and Technology, Vol. 14, No. 4.

➢ Alqahtani, A. and Whyte, A., (2016), 'Regression versus Artificial Neural Networks: identification of key variables in life-cycle costing for construction', Built Environment Project and Asset Management, BEPAM, vol-6, Iss-1, pp.30-43.

➢ Alqahtani A, Whyte A (2014), 'Clarification of the Essentials of Life Cycle Cost upon Decision-Making Process: An Empirical Study in Building Projects'. World Academy of Science, Engineering and Technology, International Science Index 96, International Journal of Civil, Architectural, Structural and Construction Engineering, 8(12), 1143 - 1147.

➢ Alqahtani, A and Whyte, A (2013), 'Artificial neural networks incorporating cost significant items towards enhancing estimation for (life-cycle) costing of construction projects', Australasian Journal of Construction Economics and Building, 13 (3) 51-64.

- Alqahtani A, Whyte A, (2015). 'Application of cost significant items towards improving estimation for life cycle costing of building projects', in 'The Eighth International Structural Engineering and Construction Conference (ISEC-8), Sydney, Australia.

- Alqahtani A, Whyte A, (2015). 'Important of Life Cycle Cost on Building Projects, in 'the Fifth International Conference on Civil, Environmental and Medical Engineering', Melbourne, Australia.

- Alqahtani A, Whyte A, (2014), 'Identification Of The Key Factors For Accurate Life-Cycle Cost Estimation For Construction', in 'Sustainable Solutions in Structural Engineering and Construction, Ed Chantawarangul, et al,pp.563-568,ISBN:978-0-9960437-0-0,DOI 10.14456/ISEC.RES.2014/978-0-9960437-0-0_CPM-9_v2_144.

CERTIFICATIONS

- **Title of Training: Primavera P6 (Professional Project Management software)**
  Name of Training Institute:PMI
  Date: June 2015.
- **Title of Training: Total Quality Management**
  Name of Training Institute: Curtin University
  Date: July 2012.

RESEARCH AND TEACHING INTERESTS

- -Engineering and project management.
- -Environmental management
- -Sustainability assessment
- -Risk management and analysis
- -Engineering decision structures
- -Process and product quality in engineering
- -Engineering Economic analysis
- -Project planning and control
- -Industrial management
- -Life cycle costing
- -Business process improvement & quality management

MEMBERSHIPS

- **The editorial board of Journal of Engineering Design and Technology**   **2016**
- **Building Cost Information Service (BCIS) Since**   **2012**
- **Saudi council of engineers Since**   **2012**

SKILL HIGHLIGHTS

- Primavera P6 (Professional Project Management software).
- MATLAB (Simulation programming).
- MS project.
- Gabi software (Analysis and management of environmental impacts of engineering projects).
- SPSS software (Statistics software).
- Microsoft office.

LANGUAGE

Bilingual Arabic/English.

INTERSET

Reading, socializing and swimming.

REFERENCES

Dr. Andrew Whyte
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Curtin University
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