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Department of Civil and Infrastructure Engineering
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ACADEMIC QUALIFICATIONS

Ph. D. in Civil Engineering, December 2010

University of Birmingham, UK

M. Sc. in Management Information Systems (MIS), May 2005

Amman Arab University for Graduate Studies, Jordan

B. Sc. in Civil Engineering, October 1997

Jordan University of Science and Technology (JUST), Jordan

Ph. D. Thesis Title: Development of KM Model for Knowledge Management
Implementation and Application in Construction Projects

Webpage (Full Text Available):

http://etheses.bham.ac.uk/view/people/Ahmad=3AHesham_Saleh_Mahmoud=3A=3A.html

PROFESSIONAL EXPERIENCE

- **Lecturer at Civil and Infrastructure Engineering Department** – *Al-Zaytoonah University of Jordan, Jordan, (2/2012 – present)*
- **Civil Engineer and Project Manager** - *Al-Zaytoonah University of Jordan, Jordan, (2/2000 – 9/2006)*

Supervised: many of graduation projects for BSc in Civil Engineering

Published: 16 papers in refereed journals and conferences and 1 book chapter

RESEARCH INTERESTS

- **Environmental Engineering**, including: Waste Water Treatment, and recycling and reuse of waste materials in construction.
- **Construction Project Management**, including: Knowledge Management Systems (KMS), Document Management Systems (DMS), and Pavement Maintenance Management Systems (PMMS)
- Traffic Safety and Management.

Institutional and Professional Services

- **Courses Taught**
 - Construction Project Management
 - Specifications, Contracts and Quantity Surveying
 - Highway Maintenance
 - Building Materials
 - Engineering Economics
 - Building Construction
 - Structural Systems
 - Surveying Lab
 - Introduction to Civil Engineering

Professional Development Activities in the last five years

- **Chair of Organizing Committee**, the 8th Engineering, Project and Production Management (EPPM2017), 19-21 September 2017, Al-Zaytoonah University of Jordan, Amman, Jordan.
- **Editorial Board Members for the Journal of Engineering, Project, and Production Management (EPPM-Journal)**, the term is two years from January 2017 to December 2018.
- **Scientific Committee Member**, the 7th Engineering, Project and Production Management (EPPM2016), 21-23 September 2016, Bialystok, Poland.
- **Organizing Committee**, Third International Conference on Environmental Design and Innovation, Zaytoonah University International Engineering Conference 2016 (ZEC2016), 16-18 May 2016, Al-Zaytoonah University of Jordan, Amman, Jordan.
- **Organizing Committee**, Zaytoonah University International Engineering Conference on Design and Innovation in Sustainability 2014 (ZEC Sustainability 2014), 2014.
- **Reviewer**, the 7th Traffic Safety Conference in Jordan, 2015.

Funded Projects

- Development of a Maintenance Management System for the Roads and Parking Network at Al-Zaytoonah University of Jordan (ZUJ). Turki Al-Suleiman (Obaidat), Subhi Bazlamit and **Hesham Ahmad**, Sponsored by Al-Zaytoonah University of Jordan, (6/2015 – present).
- Enhancing the Performance of Wastewater Treatment Plant in Al-Zaytoonah University of Jordan. Walid Bani Salameh and **Hesham Ahmad**, Sponsored by Al-Zaytoonah University of Jordan, (6/2015 – 6/2016).

Community Service Activities

- Participation in Traffic Safety Conferences in Jordan by attending, reviewing and presenting research papers and presentations.
- Supervision of graduation project to estimate, manage, and implement maintenance works for families with low income.
- Supervise lab tests for specimens collected from the construction projects inside the university.
- Participation in the supervision and submission of the works in the university nursery building.
- Participation in the maintenance works of the wastewater treatment plant of Al-Zaytoonah University.

Journal Publications

- [1] **Ahmad, H.S.**, Ayoush, M. and Bazlamit S. (2016) 'Cost-based Analysis for High Severity Locations of Traffic Accidents in Jordan', *International Journal of Engineering Sciences and Research Technology*, Vol. 5, No. 12, pp.409-416.
- [2] **Ahmad, H.S.**, Lafi, W.K., Abushgair, K. and Assbeihat, J.M. (2016) 'Comparison of Coagulation, Electrocoagulation and Biological Techniques for the Municipal Wastewater Treatment', *International Journal of Applied Engineering Research*, Vol. 11, No. 22, pp. 11014-11024.
- [3] Abushgair, K., **Ahmad, H.S.** and Karkar, F. (2016) 'Waste to Energy Technologies-Further Look into Plasma Gasification Implementation in Al-Ekaidar Landfill, Jordan', *International Journal of Applied Environmental Sciences*, Vol. 11, No. 6, pp.1415-1425.
- [4] **Ahmad, H.S.** (2016) 'A Quantitative Comparison between Chemical Coagulation and Biological Treatment of Municipal Wastewater', *International Journal of Applied Engineering Research*, Vol. 11, No. 18, pp.9424-9429.
- [5] Abendeh, R., **Ahmad, H.S.** and Hunaiti, Y.M. (2016) 'Experimental studies on the behavior of concrete-filled steel tubes incorporating crumb rubber', *Journal of Constructional Steel Research*, Vol. 122, pp.251-260.
- [6] Bani Salameh, W., **Ahmad, H.S.** and Al-Shannag M. (2015) 'Treatment of Olive Mill Wastewater by Electrocoagulation Processes and Water Resources Management', *World Academy of Science, Engineering and Technology, International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering*, Vol. 9, No. 4, pp.288-292.

- [7] Abendeh, R., Baker, M.B., Salem, Z.A. and **Ahmad H.S.** (2015) 'The Feasibility of Using Milled Glass Wastes in Concrete to Resist Freezing-Thawing Action', *World Academy of Science, Engineering and Technology, International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, Vol. 9, No. 8, pp.832-835.
- [8] An, M. and **Ahmad, H.S.** (2010) 'Knowledge management in construction projects: a way forward in dealing with tacit knowledge', *International Journal of Information Technology Project Management (IJITPM)*, Vol. 1, No. 2, pp.16-42.
- [9] **Ahmad, H.S.** and An, M. (2008) 'Knowledge management implementation in construction projects: a KM model for Knowledge Creation, Collection and Updating (KCCU)', *International Journal of Project Organisation and Management*, Vol. 1, No. 2, pp.133-166.

Book Chapter:

- [1] An, M. and **Ahmad, H.S.** (2012) 'Knowledge management in construction projects: a way forward in dealing with tacit knowledge', *Project Management Techniques and Innovations in Information Technology*, Chapter 6, pp.86-114, Published in 30/4/2012.

Conference Publications:

- [1] **Ahmad, H.S.**, Ayoush, M.D. and Bazlamit, S.M. (2015) 'Document Management Systems in Small and Medium Size Construction Companies in Jordan', The 6th International Conference on Engineering, Project, and Production Management (EPPM2015), Griffith University, Gold Coast, Australia, 2-4 September, pp.273-281, ISBN: 978-1-922216-76-2.
- [2] **Ahmad, H.S.**, Bazlamit, S.M. and Ayoush, M.D. (2015) 'Identification and Prioritization of Potential Countermeasures for Traffic Accidents by using Collision Diagrams and Benefit/Cost Analysis', 7th Traffic Safety Conference, Jordan Traffic Institute, Amman, Jordan, 12-13 May.
- [3] Ayoush, M.D. and **Ahmad, H.S.** (2015) 'Innovative Method for Integrating Accounting Information System (AIS) with Document Management System (DMS) in Construction Projects', The 14th Scientific Annual International Conference for Business - Innovation Management in Business, AL-Zaytoonah University of Jordan, Amman, Jordan, 20-22 April, pp.121-128, ISSN: 2231-8275.
- [4] **Ahmad, H.S.**, Bazlamit, S.M., Dhaimat, O.H., and Ayoush, M.D. (2014) 'Toward Sustainable Transportation in Jordan: Analysis of Location, Safety and Cost of Traffic Accidents', Zaytoonah University International Engineering Conference on Design and Innovation in Sustainability 2014 (ZEC Sustainability 2014), Al-Zaytoonah University of Jordan, Amman, Jordan, 13-15 May, Paper Code No. 156954709.
- [5] Dhaimat, O.H., **Ahmad, H.S.**, Bazlamit, S.M. and Ayoush, M.D. (2014) 'Analysis of Traffic Accidents in Madaba Governorate in Jordan', The Fourth Jordan International Conference and Exhibition for Roads and Transport: High Priority Issues in the Future Transport Sector, University of Jordan, Amman, Jordan, 12-13 March.
- [6] **Ahmad, H.S.**, An, M. and Gaterell, M. (2009) 'Web-based knowledge management method to enhance knowledge capturing, sharing and creation in construction projects', Proceedings of the 4th eServices Symposium in the Eastern Province: eServices Integration, Khubar, Saudi Arabia, 9-11 March, pp.51-62.
- [7] **Ahmad, H.S.**, An, M. and Gaterell, M. (2008) 'KM model to embed knowledge management activities into work activities in construction organisations', Proceedings of the 24th Annual ARCOM Conference, Association of Researchers in Construction Management, Cardiff, UK, 1-3 September, pp. 309-318.
- [8] **Ahmad, H.S.**, An, M. and Gaterell, M. (2007) 'Development of KM model to simplify knowledge management implementation in construction projects', Proceedings of the 23rd Annual ARCOM Conference, Association of Researchers in Construction Management, Belfast, UK, 3-5 September, pp. 515-524.