

Professor Mohammad S. El-Mashaleh

Education

Ph.D.	Civil Engineering / Construction Engineering and Management University of Florida – USA	2003
	Dissertation: Firm Performance and Information Technology Utilization in the Construction Industry: An Empirical Study GPA: 3.9/4.0	
M.Sc.	Construction Engineering and Management Arizona State University - USA	1998
	Thesis: Construction Cost and Schedule Control GPA: 3.9/4.0	
B.Sc.	Civil Engineering University of Jordan - Jordan	1989

Scopus and Google Scholar Metrics

Scopus	H-index: 12; number of citations: 632.
Google Scholar	H-index: 17. Number of citations; 1293.

Managerial Experiences – Academia

Feb 2023 – Present	Vice President for Planning, Development, Quality and International Outreach The Hashemite University Zarqa, Jordan
Sep 2020 – Sep 2023	Dean of Scientific Research The Hashemite University Zarqa, Jordan
Sep 2016 – Aug 2018	Dean of Faculty of Graduate Studies The Hashemite University Zarqa, Jordan
Sep 2013- Aug 2014	Dean and Vice Dean of Scientific Research and Graduate Studies The Hashemite University Zarqa, Jordan

- Sep 2010 – July 2011 **Director of the Center for Studies, Consultations, and Community Service**
The Hashemite University
Zarqa, Jordan
- Sep 2005- Aug 2008 **Chairman of the Department of Civil Engineering**
Faculty of Engineering – The Hashemite University
Zarqa, Jordan
- Sep 2004- Aug 2005 **Assistant Dean for Student Affairs**
Faculty of Engineering – The Hashemite University
Zarqa, Jordan

Managerial Experiences – Government

- 1998-2000 **Tendering Manager**
Tendering Committee for Military Works
Royal Engineering Corps – Jordan Armed Forces
Amman, Jordan
- 1993 – 1996 **Manager of Construction Department**
Special Communication Commission – Jordan Armed Forces
Amman – Jordan

Academic Experiences

- Feb. 2004 – Present **Professor (Feb. 2016 – Present)**
Associate Professor (Jul. 2010 – Jan. 2016)
Assistant Professor (Feb. 2004 – Jun. 2010)
Department of Civil Engineering – Faculty of Engineering
The Hashemite University
Zarqa, Jordan
- Sep 2011 – Aug 2012 **Visiting Professor**
Department of Civil Engineering – Faculty of Engineering
University of Jordan
- Feb 2006- Jun 2006 **Visiting Lecturer**
Department of Civil Engineering – Faculty of Engineering and Technology
University of Jordan – Jordan
- Aug 2000 – Dec 2003 **Research Assistant**
Department of Civil and Coastal Engineering – University of Florida – USA
- Jan 1997 – Jul 1998 **Research Assistant**
Del E. Webb School of Construction – Arizona State University – USA

Undergraduate Classes Taught on Campus and Virtually for the Hashemite University

Construction project management
Construction contract administration
Construction planning and scheduling
Computer applications in construction engineering and management (Primavera and MS Project)
Construction methods
Engineering economy
Technical writing for engineers

Supervision of Master Students at the University of Portsmouth, United Kingdom (Master Program - Project Management for Construction)

- 2024** The influence of BIM and its impact on quantity surveying, cost estimation and cost control in construction projects.
- 2024** Adoption of building information modeling in modular and relocatable construction from construction management perspective
- 2024** Implementation of strategic management in the Canadian construction industry to enhance project control.

Supervision of Master Students at the University of Jordan (Master Program in Engineering Project Management)

- 2021** Factors affecting project delivery system selection in the Jordanian construction Industry.
- 2019** Factors affecting cost and schedule overruns: the case of UNHCR projects in Jordan.
- 2018** Building information modeling (BIM) in the architecture, engineering, and construction (AEC) industry in Jordan: current use, perceived benefits, and barriers for adoption.
- The Role of design engineers in construction workers' safety: the case of Jordan.
- Reasons behind delays and cost overruns in construction projects in Jordan.
- 2017** Effects of training and motivation of employees on performance of Jordanian construction companies: an employees' perspective.
- Factors affecting construction site safety: the case of Jordan.
- .

- 2016** A framework for assessing and managing the risks associated with project development projects in the Jordanian manufacturing industry.

Publications

Dissertation and Thesis

El-Mashaleh, M. 2003. Firm performance and information technology utilization in the construction industry: an empirical study. Ph.D. dissertation, Department of Civil and Coastal Engineering, University of Florida, Gainesville, Florida.

El-Mashaleh, M. 1998. Cost and schedule control for clean manufacturing facility projects in the semiconductor industry. Master thesis, Del E. Webb School of Construction, Arizona State University, Tempe, Arizona.

Refereed Journal Papers

Hiyassat, M., Alkasagi, F., El-Mashaleh, M., Sweis, G. 2022. Risk allocation in public construction projects: the case of Jordan. *International Journal of Construction Management*.

Sweis, R., Abuhussein, R., Jandali, D., El-Mashaleh, M., Al-Debei, M. 2018. Factors affecting ERP projects from a project management perspective: A literature review. *International Journal of Business Information Systems*, 29(3), 281–296.

El-Mashaleh, M., and Horta, I. 2016. Evaluating contractors for bonding: DEA decision making model for surety underwriters. *ASCE Journal of Management in Engineering*, 32(1).

Hyari, K. Al-Daraiseh, A., and El-Mashaleh, M. 2016. Conceptual cost estimation model for engineering services in public construction projects. *ASCE Journal of Management in Engineering*, 32(1).

El-Mashaleh, M., Hyari, K., Bdour, A., and Rababeh, S. 2015. A multi-attribute decision-making model for construction enterprise resource planning system selection. *International Journal of Construction Education and Research*. Published online on March 4, 2015.

Hyari, K. El-Mashaleh, M., and Rababeh, S. 2015. Framework for managing the traffic impacts of building construction projects. *Journal of Construction in Developing Countries*, 20(2), 89-105.

El-Mashaleh, M., and Minchin, E. 2014. Concessionaire selection model based on data envelopment analysis (DEA). *ASCE Journal of Management in Engineering*, 30(4), 04014013.

El-Mashaleh, M., Al-Jundi, A., Mattar, S., Abu Ali, R., and Al-Hammad, J.

2014. Understanding key bidding factors considered by top Jordanian contractors. *Jordan Journal of Civil Engineering*, 8(4), 455-464.
- Rababeh, S., Qublan, H., Abu Khafaja, S., and El-Mashaleh, M. 2014. Structural utilization of wooden beams as anti-seismic and stabilizing techniques in stone masonry in Qasr el-Bint, Petra, Jordan. *Construction and Building Materials*, 54, 60-69.
- El-Mashaleh, M. 2013. Empirical framework for making the bid/no-bid decision. *ASCE Journal of Management in Engineering*, 29(3), 200-205.
- Rababeh, S., Qublan, H., and El-Mashaleh, M. 2013. Utilization of tie beams for strengthening stone masonry arches in Nabataean construction. *Journal of Architectural Conservation*, 19(2), 118-130.
- Hyari, K., El-Mashaleh, M., Kandil, A. 2010. Optimal Assignment of Multiskilled Labor in Building Construction Projects. *International Journal of Construction Education and Research*, 6, 70-80.
- Rababeh, S., El-Mashaleh, M., Malabah, A. 2011. Factors determining the choice of the construction techniques in Petra, Jordan. *International Journal of Architectural Heritage*, 5(1), 60-83.
- El-Mashaleh, M. 2010. Decision to bid or not to bid: a data envelopment analysis approach. *Canadian Journal of Civil Engineering*, 37(1), 37-44.
- El-Mashaleh, M., Rababeh, S., Hyari, K. 2010. Utilizing data envelopment analysis to benchmark safety performance of construction contractors. *International Journal of Project Management*, 28 (1), 61-67.
- El-Mashaleh, M., Al-Smadi, B., Hyari, K., Rababeh, S. 2010. Safety management in the Jordanian construction industry. *Jordan Journal of Civil Engineering*, 4(1), 47-56.
- Hyari, K., El-Mashaleh, M., Kandil, A. 2010. Optimal Assignment of Multiskilled Labor in Building Construction Projects. *International Journal of Construction Education and Research*, 6, 70-80.
- El-Mashaleh, M. 2009. A construction subcontractor selection model. *Jordan Journal of Civil Engineering*, 3(4), 375-383.
- Hyari, K., El-Rayes, K., El-Mashaleh, M. 2009. Automated tradeoff between time and cost in planning repetitive construction projects. *Construction Management and Economics*, 27, 749-761.
- El-Mashaleh, M. 2007. Benchmarking information technology utilization in the construction industry in Jordan. *Journal of Information Technology in Construction (ITCon)*. Special issue: construction information technology in emerging economies, 12, 279-291.
- El-Mashaleh, M., Minchin, R., O'Brien, W. 2007. Management of

construction firm performance using benchmarking. *ASCE Journal of Management in Engineering*, 23(1), 10-17.

El-Mashaleh, M., O'Brien, W., Minchin, R. 2006. Firm performance and information technology utilization in the construction industry." *ASCE Journal of Construction Engineering and Management*, 132 (5), 499-507.

El-Mashaleh, M., Chasey, A. 1999. Improving the cost and schedule control system. *Cost Engineering*, American Association of Cost Engineers, July, 39-41.

EL-Mashaleh, M., Chasey, A. (1998). "Effective construction cost and schedule control." *Semiconductor Fabtech*, 9th Edition, IGC Publishing Ltd, London, Winter, 1998/99, 129-131.

Refereed Conference Papers

El-Mashaleh, M. 2022. A conceptual DEA model for assessing the viability of BOT infrastructure projects. Proceedings of the 14th International Conference on Computational Structural Technology, Montpellier, France, 23-25 August. 6 pages.

El-Mashaleh, M. 2015. A conceptual framework for evaluating sustainability of infrastructure projects. Proceedings of the 7th International Conference on Sustainable Development in Building and Environment (SuDBE), Reading, United Kingdom, 27-29 July. 10 pages.

El-Mashaleh, M. 2011. Subcontractor selection based on data envelopment analysis. Proceedings of the CIB International Conference on Management and Innovation for Sustainable Built Environment, Amsterdam, The Netherlands, 20-23 June. 11 pages.

El-Mashaleh, M., Al-Momani, A, Al-Sayyed, F., Saleh, N. 2006. A survey on IT usage in the construction, architecture and engineering, and consulting industry in Jordan. Proceedings of the Joint International Conference on Computing and Decision Making in Civil and Building Engineering, Montreal, Canada, 14-16 June, 11 pages.

El-Mashaleh, M., Minchin, R., O'Brien, W. 2005. Benchmarking construction firm performance. Proceedings of the 11th Joint CIB International Symposium, Helsinki, Finland, 13-16 June, 376-389.

El-Mashaleh, M., O'Brien, W., Minchin, R. 2005. Construction firm performance and IT utilization. Proceedings of the Construction Research Congress, San Diego, CA, USA, 5-7 April, 642-646.

El-Mashaleh, M., O'Brien, W. 2004. An Empirical study relating construction firm performance and IT utilization. Proceedings of the 10th International Conference on Computing in Civil and Building Engineering, Bauhaus-Universität Weimar, Weimar, Germany, 2-4 June, 10 pages.

El-Mashaleh, M., O'Brien, W., London, K. 2001. An envelopment methodology to measure and compare subcontractor productivity at the firm level." Proceedings of the 9th Annual Conference of the International Group for Lean Construction, National University of Singapore, Singapore, 6-8 August, 17 pages.

Reports

El-Mashaleh, M., O'Brien, W., Kang, Y. 2006. The impact of IT use at the firm level: an empirical study of contractor performance. Center for Construction Industry Studies (CCIS), Report No. 34, The University of Texas at Austin.

Training Conducted

2006 – 2013 Tens of workshops in areas of contract administration and FIDIC conditions of contract in Bahrain, Egypt, Jordan, Lebanon, Qatar, Saudi Arabia, Turkey, and United Arab Emirates.

Referee of International Journals

Journal of Construction Engineering and Management (ASCE)

Journal of Management in Engineering (ASCE)

International Journal of Project Management (Outstanding reviewer)

Automation in Construction (Outstanding reviewer)

Construction Management and Economics

Journal of Information Technology in Construction (ITcon)

European Journal of Operational Research (Recognized reviewer)

International Journal of Production Economics (Recognized reviewer)

Journal of Information Technology and Decision making

Socio-Economic Planning Sciences (Recognized reviewer)

International Journal of Disaster Risk Reduction (Recognized reviewer)

Awards

Graduate Tuition Scholarship University of Florida	2000-2003
---	-----------

PhD Scholarship Award Hashemite University, Jordan	2000-2003
---	-----------

Graduate Tuition Scholarship Arizona State University	1996-1998
Hashemite Royal Court Scholarship Award	1984-1989

Research Interests

Deployment and utilization of information technology in construction

Decision support systems in construction

Performance measurement and benchmarking

Committees

Abroad university

Appointed as a member of the National University Achievement Exam by the Ministry of Higher Education and Scientific Research.

Assigned as a committee member by the Higher Education Accreditation and Quality Assurance Commission to assess accreditation requirements for civil engineering and project management programs at Middle East University, Philadelphia University, Balqa University, Yarmouk University, Al al-Bayt University, and Al-Hussein University.

Assigned as a committee member by Petra University to write a proposal for starting a new civil engineering program.

Appointed by Jordan Engineers Association as a chair/committee member for accreditation of civil engineering degrees.

Appointed by the Higher Education Accreditation and Quality Assurance Commission as a member of trustees at Zarqa Technical College.

University level

HU Deans Council (member)

HU University Council (member)

HU Scientific Research Council (Chair)

HU Graduate Studies Council (Chair)

HU Strategic Plan (Chair)

College and department level

Tens of committees as a chair and as a member including program curriculum, courses schedule, graduate studies, scientific research, and strategic plan.

Membership

Jordan Engineers Association since 1989.

Computer Skills

Windows and Microsoft office suite.

Internet and e-mail.

Statistical software packages: Minitab and SPSS.

Project management software packages: MS Project, Primavera, and Navisworks.

Educational management platforms: Blackboard, Moodle, and MS Teams.

Meeting platforms: Zoom and Webex.

Languages

Native speaker of Arabic.

Excellent command of written and spoken English.

References

Available upon request.