

Naimeh Sadeghi, Ph.D.

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Education

- Ph.D. in Construction Engineering and Management (2009 to 2015)
Faculty of Civil and Environmental Engineering
University of Alberta, GPA: 3.9/4

Ph.D. Thesis: A Hybrid Fuzzy Discrete Event Simulation Framework for Analysis of Stochastic and Subjective Uncertainties in Construction Projects

- M.Sc. in Construction Engineering and Management (2007 to 2009)
Faculty of Civil and Environmental Engineering
University of Alberta, GPA: 3.9/4

M.Sc. Thesis: Combined Fuzzy and Probabilistic Simulation for Construction Management

- B.Sc. in Computer Engineering (Software) (2002 to 2006)
Faculty of Engineering, University of Shiraz, Iran , GPA: 17.30/20

Experiences

- Research advisor at TECNOSA R&D center, University of Tehran, Tehran, Iran. (2016 to Now)
 - Being part of LEED research team and Being involved in translating a book titled “LEED, Reference Guide for Building Design and Construction”. (2017)
 - Collaborating in development of a simulation-based scheduling and progressing system for layout optimization and effective resource allocation of module assembly yard, PCL Industrial Ltd., Edmonton, AB. (2016)
- Researcher at University of Alberta, AB., Canada (2007 to 2015):
 - Developing a fuzzy discrete event simulation engine, University of Alberta, Edmonton, AB. (2009 to 2014)
 - Developing a discrete event simulation model for scheduling modules for module assembly yard of Aecon, Edmonton, AB. (2014)

- Identifying and ranking influencing factors on labor productivity of various activities in module assembly yard, Aecon, Edmonton, AB. (2013)
- Developing data-driven fuzzy rule-based systems for predicting labor productivity of various activities in module assembly yard based on different influencing factors, Aecon, Edmonton, AB. (2013)
- Developing a simulation model for scheduling spools in fabrication shop of Lockerbie and Hole, Edmonton, AB. (2009)
- Researcher at University of Shiraz, Shiraz, Iran (2005 to 2006)
 - Designing and Implementing business processes for virtual companions, University of Shiraz, Shiraz, IR. (2006)

Journal Papers

- Sadeghi, N., Fayek, A. R., & Gerami Seresht, N. (2016). A fuzzy discrete event simulation framework for construction applications: Improving the simulation time advancement. *Journal of Construction Engineering and Management*, 142(12), 04016071
- Elbarkouky, M. M., Fayek, A. R., Siraj, N. B., & Sadeghi, N. (2016). Fuzzy Arithmetic Risk Analysis Approach to Determine Construction Project Contingency. *Journal of Construction Engineering and Management*, 142(12), 04016070.
- Sadeghi, N., Fayek, A. Robinson, and Gerami Seresht, N. (2015). Queue performance measures in construction simulation models containing subjective uncertainty. *Automation in Construction*, 60: 1-11
- Sadeghi, N., Fayek, A. Robinson, and Ingolfsson, A. (2012). Simulation-based approach for estimating project completion time of stochastic resource-constrained project networks. *Journal of Computing in Civil Engineering*, ASCE, 26(4): 558-560.
- Sadeghi, N., Fayek, A. Robinson, and Pedrycz, W. (2010). Fuzzy Monte Carlo simulation and risk assessment in construction. *Computer-Aided Civil and Infrastructure Engineering*, 25(4): 238-252.

Conference Papers

- Sadeghi, N., Fayek, A. Robinson, and Mosayebi, S. P. (2013). Developing a Fuzzy Discrete Event Simulation Framework within a Traditional Simulation Engine. *Proceedings, IFSA-NAFIPS Joint Congress 2013: International Fuzzy Systems*

Association World Congress and North American Fuzzy Information Processing Society Annual Meeting, Edmonton, Alberta, June 24-28, 2013, 5 pp.

- Sadeghi, N., and Fayek, A. Robinson. (2011). A fuzzy-based approach for proactive scheduling of construction projects. Proceedings, 3rd International/9th Construction Specialty Conference, CSCE, Ottawa, Ont., June 14-17: CN-007-1-CN-007-11.
- Sadeghi, N., and Fayek, A. Robinson. (2008). A framework for simulating industrial construction processes. Proceedings, 2008 Winter Simulation Conference, IEEE, Miami, Florida, December 7-10, 2008, pp. 2396-2401.
- Sadeghi, N., and Fayek, A. Robinson. 2011. Fuzzy simulation for robust scheduling of construction projects. 2nd Canadian Graduate Student Colloquium on Computer-Assisted Construction Technologies (CCT), Ottawa, Ont., June 13-14, 2011.

Technical Reports

- Sadeghi, N., and Fayek, A. Robinson. (2009). Simulation Model of Module Yard. Technical Report submitted to Lockerbie and Hole, NSERC IRC CEM-TR/LOCK-2009/2, Edmonton, Alberta, November 2009, 19 pp.
- Sadeghi, N., and Fayek, A. Robinson. (2009). Simulation Model of Fabrication Shop. Technical Report submitted to Lockerbie and Hole, NSERC IRC CEM-TR/LOCK-2009/1, Edmonton, Alberta, November 2009, 30 pp.

Honors and Awards

- Provost doctoral entrance award, University of Alberta, (2009)
- Queen Elizabeth II graduate scholarship, University of Alberta, (2008, 2009)
- Robert Stollery / USF&G Award, Insurance Company of Canada, (2008)
- Honored by University of Shiraz alumni for obtaining the 1st rank in Computer Engineering Bachelor's Program (2006)
- Honored by University of Shiraz alumni for being among exceptional talents (2003)
- Ranked 285 at the governmental university entrance exam (2002)
- Bronze medal in the 14th Iranian National Physics Olympiad (2001)