

## **Ali Nejat, Ph.D.**

Assistant Professor of Civil, Environmental and Construction Engineering  
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### **Professional Preparation**

<b>Institution</b>	<b>Major</b>	<b>Degree and Year</b>
Zanjan University, Iran	Civil Engineering	B.S. (1999)
Azad University, Iran	Civil Engineering (CEM)	M.S. (2003)
Texas A&M University, USA	Civil Engineering (CEM)	Ph.D. (2011)

### **Appointments**

2011-present     Assistant Professor, Department of Construction Engineering and Engineering Technology, Texas Tech University, Lubbock, Texas

2006-2011        Research and Teaching assistant, Texas A&M University, College Station, Texas

### **Research Interests**

- [1] Modeling Dynamics of Post-disaster recovery
- [2] Agent-based Modeling
- [3] System Dynamics
- [4] Infrastructure Management
- [5] Building Information Modeling
- [6] Transportation Construction Management

### **Honors/Awards**

- [1] NSF Faculty Early Career Development Award – 2015
- [2] Whitacre Engineering Research Award – 2015
- [3] Sue McNeil Outstanding Presentation Award, AISIM 4 symposium – 2008

### **Synergistic Activities**

Committee Membership	<ul style="list-style-type: none"><li>▪ STEM-CORE Affiliate Faculty</li><li>▪ Faculty Senator</li><li>▪ Associate Member of American Society of Civil Engineers (ASCE)</li><li>▪ ASCE Excellence in Civil Engineering Education (ExCEEEd) fellow</li><li>▪ Member of American Society for Engineering Educators (ASEE)</li><li>▪ Member of ASCE Construction Research Congress</li></ul>
Teaching	<ul style="list-style-type: none"><li>▪ Service Learning course on Building Information Modeling</li></ul>
Industry/Outreach Collaborations	<ul style="list-style-type: none"><li>▪ TEXO, Sedalco, The Industrial Company, JEDUNN, QTrack, Rogers-O'Brien, Satterfield and Pontikes, Whiting-Turner companies</li></ul>

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| Reviewer/Referee       | <ul style="list-style-type: none"> <li>▪ Computer-Aided Civil and Infrastructure Engineering.</li> <li>▪ ASCE Construction Engineering Management.</li> <li>▪ ASCE Natural Hazards Review.</li> <li>▪ Journal of Energies.</li> <li>▪ ASCE Construction Research Congress (2011-2015)</li> <li>▪ American Society of Engineering Educators Conference (2012)</li> <li>▪ Journal of Risk Analysis and etc.</li> </ul> |
| Coach/Organizer/Editor | <ul style="list-style-type: none"> <li>▪ Texas Tech Design-Build and Heavy-Civil Student Team,</li> <li>▪ Second Civil Engineering Student Research Symposium (CESRS), Texas A&amp;M University, College Station, Texas, 2009</li> <li>▪ The 4<sup>th</sup> Annual Inter-University Symposium on Infrastructure Management (AISIM), University of Texas at Austin, 2008</li> </ul>                                   |

### **Selected Publications**

- [1] **A. Nejat**, S. Ghosh, Z. Cong and D. Liang, "Housing Recovery after Hurricane Sandy", Book Chapter in Post-Disaster Housing book by Taylor and Francis, CRC press (under review).
- [2] **A. Nejat**, S. Ghosh, "A LASSO Model of Post-disaster Housing Recovery: A Sandy case Study", ASCE Journal of Natural Hazards Review (under review).
- [3] **A. Nejat**, Z. Cong, and D. Liang, "Family Structures, Relationships, and Housing Recovery Decisions after Hurricane Sandy", MDPI Journal of Buildings (under review).
- [4] **A. Nejat**, "Management of Toll-road Infrastructure through Performance-based Warranties", Journal of Computer Aided Civil and Infrastructure Systems (under review).
- [5] **A. Nejat**, and I. D. Damnjanovic, "Agent-based Modeling of Behavioral Housing Recovery Following Disasters", Journal of Computer-aided Civil and Infrastructure Engineering, 27: 748-763. doi: 10.1111/j.1467-8667.2012.00787.x
- [6] Javid, R. J., **Nejat, A.**, & Hayhoe, K. (2014). Selection of CO2 mitigation strategies for road transportation in the United States using a multi-criteria approach. Renewable and Sustainable Energy Reviews, 38, 960-972.
- [7] Faghihi, V., **Nejat, A.**, Reinschmidt, K. F., & Kang, J. H. (2014). Automation in construction scheduling: A review of the literature. The International Journal of Advanced Manufacturing Technology, 1-12.
- [8] **A. Nejat**, and I. Damnjanovic, "Effects of Project Cost Reduction Methods", *Transportation Research Record: Journal of Transportation Research Board*, No. 2151, Transportation Research Board of National Academics, Washington DC, 2010, pp. 28-35.
- [9] **A. Nejat**, and A. H. Mohsenian-Rad, "Electric Load Forecasting: A Multi-Agent Systems Approach", *Proceedings of the 15<sup>th</sup> International IEEE Conference on Intelligent Transportation Systems – ITSC 2012 IEEE*, September 2012, Anchorage, Alaska.
- [10] A. H. Hejazi, A. H. Mohsenian-Rad, **A. Nejat**, "Right-Locating, Right-Sizing, and Optimal Operation of Storage Systems in Distribution Networks with High Penetration of DGs and PEVs". Submitted to IEEE Vehicular Technology Conference 2014, Vancouver, Canada.
- [11] S. Ramesh, **A. Nejat**, S. Anderson, and I. Damnjanovic, "Synthesis on Construction Unit Cost Development", Texas Transportation Institute Technical Report 0-6023-1, 2009
- [12] **A. Nejat**, M. Darwish, and T. Ghebrab, "BIM Teaching Strategy for Construction Engineering Students", *Proceedings of American Society for Engineering Education 2012 Annual Conference*, San Antonio, Texas, June 2012.