

**Dr. Ali Nejat**  
Texas Tech University  
(806) 742-3538  
ali.nejat@ttu.edu

## TEACHING

### Courses Taught

#### Texas Tech University

CE 7000, Research, 1 course.

EGR 1207, Engineering Graphics: Software B, 2 courses.

## RESEARCH

### Published Intellectual Contributions

#### Abstract

Ghebrab, T., Darwish, M., Nejat, A. *Enhancing Construction Engineering Internship to a Viable Learning Mechanism*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Darwish, M., and Nejat, A. *Crossing Borders: Undergraduate Design Build Team*, Latin American and Caribbean Consortium of Engineering Institutions Conference, Panama City, Panama, 2012.

Darwish, M., and Nejat, A. *Globalization Effects on Safety and Health of Construction Workers*, Creative Construction Conference 2012, Budapest, Hungary.

#### Conference Proceeding

Nejat, A and Mohsenian-Rad, A. H. *Electric Load Forecasting: A Multi-Agent Systems Approach*, submitted to the 15<sup>th</sup> International IEEE Conference on Intelligent Transportation Systems – ITSC 2012 IEEE, March 2012.

Nejat, A. *Modeling Dynamics of Post Disaster Recovery*. Construction Research Congress 2012, Purdue University, West Lafayette, Indiana, May 2012.

Nejat, A., Darwish, M., Ghebrab, T. *BIM Teaching Strategy for Construction Engineering Students*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Darwish, M., Nejat, A. *Globalization and the new challenges for construction engineering education*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Nejat, A., Anderson, S., Damnjanovic, I. and Gunby, M. *Alternative Contracting Methods to Accelerate Project Completion: Lessons Learned By State Transportation Agencies – Results from NCHRP Synthesis Study 379*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL, February 2009.

Nejat, A., Damnjanovic, I. and Anderson, S. *Effects of Project Cost Reduction Methods*. Proceedings of the Transportation Research Board Meeting, Washington, DC 2008.

Nejat, A., Anderson, S., Damnjanovic, I. and Gunby, M. *Alternative Contracting Methods to Accelerate Project Completion: Lessons Learned By State Transportation Agencies*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL 2009.

Pandit, D., Anderson, S., Damnjanovic, I. and Nejat, A. *Assessment Of Strategies And Methods To Reduce Construction Costs While Maintaining Quality*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL 2009.

Nejat, A., and Damnjanovic, I. *Modeling Impact of Transportation Infrastructure on Post-Disaster Recovery*. Proceedings of the Transportation Research Board Meeting, Washington, DC 2009.

Nejat, A., and Damnjanovic, I. *A game theoretic approach to Modeling Dynamics of post-disaster Recovery*. Proceedings of the 4<sup>th</sup> Annual Inter-University Symposium on Infrastructure Management (AISIM), Austin, Texas 2008.

Nejat, A. and Damnjanovic, I. *The Value of Performance Warranties for Toll Road Projects: Developer's Dilemma in Transferring Pavement Performance Risk*. Proceedings of the Transportation Research Board Meeting, Washington DC, January 2008.

### **Manuscript**

Nejat, A. (2012). Agent Based Modeling of Post-Disaster Reconstruction. Submitted to the Journal of Computer-Aided Civil and Infrastructure Engineering, March 2012.

Nejat, A. and Damnjanovic I. (2010), *Effects of Project Cost Reduction Methods*, Transportation Research Record: Journal of Transportation Research Board, No. 2151, Transportation Research Board of National Academics, Washington DC, pp. 28-35.

### **Technical Reports**

Ramesh, S., Nejat, A, Anderson, S., and Damnjanovic, I. *Synthesis on Construction Unit Cost Development*, Texas Transportation Institute Technical Report 0-6023-1, 2009

NCHRP Synthesis 379: Selection and Evaluation of Alternative Contracting Methods to Accelerate Project Completion, National Cooperative Highway Research Program (NCHRP), Transportation Research Board of National Academics, 2008.

Performance Specifications for Rapid Highway Renewal-Value Assessment and Development of Specification Framework. Prepared for Strategic Highway Research Program 2, Transportation Research Board of The National Academics, 2009.

## Research

### Awarded:

Nejat, A. *BIM Tracker*, Texas Tech University Commercialization Development Grant, Texas Tech University, \$38,995.

### Submitted:

Nejat, A (Principal), Liang, Daan (Co-Principal), Cong, Zhen (Co-Principal), *Agent-Based Behavioral Modeling of Elderly Before and After Disasters*, National Science Foundation, \$324,612.

Nejat, A (Principal), Mohsenian, Amir Hamed (Co-Principal), *An Agent-Based Approach to Temporospatial PHEV Load-Forecasting*, National Science Foundation, \$300,000.

## SERVICE

### Department Service

Co-Coach, International Design Build Student Group, TEXO Student Competitions, Dallas, Texas 2012.

Committee Member, CEET Graduate Certificate, Fall 2011.

### Professional Service

Reviewer, Journal Article, Journal of Computer-Aided Civil and Infrastructure Engineering.

Reviewer, Conference Paper & Journal Article, Transportation Research Board of National Academics.

Reviewer, Conference Paper, Construction Research Congress 2012, West Lafayette, Indiana (January 17, 2012 - February 17, 2012).

Reviewer, Conference Paper, American Society of Engineering Education - 2012 Annual Conference, San Antonio, Texas (January 17, 2012 - February 17, 2012).



**Dr. Ali Nejat**  
Texas Tech University  
(806) 742-3538  
ali.nejat@ttu.edu

## TEACHING

### Courses Taught

#### Texas Tech University

CE 7000, Research, 1 course.

EGR 1207, Engineering Graphics: Software B, 2 courses.

## RESEARCH

### Published Intellectual Contributions

#### Abstract

Ghebrab, T., Darwish, M., Nejat, A. *Enhancing Construction Engineering Internship to a Viable Learning Mechanism*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Darwish, M., and Nejat, A. *Crossing Borders: Undergraduate Design Build Team*, Latin American and Caribbean Consortium of Engineering Institutions Conference, Panama City, Panama, 2012.

Darwish, M., and Nejat, A. *Globalization Effects on Safety and Health of Construction Workers*, Creative Construction Conference 2012, Budapest, Hungary.

#### Conference Proceeding

Nejat, A and Mohsenian-Rad, A. H. *Electric Load Forecasting: A Multi-Agent Systems Approach*, submitted to the 15<sup>th</sup> International IEEE Conference on Intelligent Transportation Systems – ITSC 2012 IEEE, March 2012.

Nejat, A. *Modeling Dynamics of Post Disaster Recovery*. Construction Research Congress 2012, Purdue University, West Lafayette, Indiana, May 2012.

Nejat, A., Darwish, M., Ghebrab, T. *BIM Teaching Strategy for Construction Engineering Students*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Darwish, M., Nejat, A. *Globalization and the new challenges for construction engineering education*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Nejat, A., Anderson, S., Damnjanovic, I. and Gunby, M. *Alternative Contracting Methods to Accelerate Project Completion: Lessons Learned By State Transportation Agencies – Results from NCHRP Synthesis Study 379*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL, February 2009.

Nejat, A., Damnjanovic, I. and Anderson, S. *Effects of Project Cost Reduction Methods*. Proceedings of the Transportation Research Board Meeting, Washington, DC 2008.

Nejat, A., Anderson, S., Damnjanovic, I. and Gunby, M. *Alternative Contracting Methods to Accelerate Project Completion: Lessons Learned By State Transportation Agencies*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL 2009.

Pandit, D., Anderson, S., Damnjanovic, I. and Nejat, A. *Assessment Of Strategies And Methods To Reduce Construction Costs While Maintaining Quality*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL 2009.

Nejat, A., and Damnjanovic, I. *Modeling Impact of Transportation Infrastructure on Post-Disaster Recovery*. Proceedings of the Transportation Research Board Meeting, Washington, DC 2009.

Nejat, A., and Damnjanovic, I. *A game theoretic approach to Modeling Dynamics of post-disaster Recovery*. Proceedings of the 4<sup>th</sup> Annual Inter-University Symposium on Infrastructure Management (AISIM), Austin, Texas 2008.

Nejat, A. and Damnjanovic, I. *The Value of Performance Warranties for Toll Road Projects: Developer's Dilemma in Transferring Pavement Performance Risk*. Proceedings of the Transportation Research Board Meeting, Washington DC, January 2008.

### **Manuscript**

Nejat, A. (2012). Agent Based Modeling of Post-Disaster Reconstruction. Submitted to the Journal of Computer-Aided Civil and Infrastructure Engineering, March 2012.

Nejat, A. and Damnjanovic I. (2010), *Effects of Project Cost Reduction Methods*, Transportation Research Record: Journal of Transportation Research Board, No. 2151, Transportation Research Board of National Academics, Washington DC, pp. 28-35.

### **Technical Reports**

Ramesh, S., Nejat, A, Anderson, S., and Damnjanovic, I. *Synthesis on Construction Unit Cost Development*, Texas Transportation Institute Technical Report 0-6023-1, 2009

NCHRP Synthesis 379: Selection and Evaluation of Alternative Contracting Methods to Accelerate Project Completion, National Cooperative Highway Research Program (NCHRP), Transportation Research Board of National Academics, 2008.

Performance Specifications for Rapid Highway Renewal-Value Assessment and Development of Specification Framework. Prepared for Strategic Highway Research Program 2, Transportation Research Board of The National Academics, 2009.

## Research

### Awarded:

Nejat, A. *BIM Tracker*, Texas Tech University Commercialization Development Grant, Texas Tech University, \$38,995.

### Submitted:

Nejat, A (Principal), Liang, Daan (Co-Principal), Cong, Zhen (Co-Principal), *Agent-Based Behavioral Modeling of Elderly Before and After Disasters*, National Science Foundation, \$324,612.

Nejat, A (Principal), Mohsenian, Amir Hamed (Co-Principal), *An Agent-Based Approach to Temporospatial PHEV Load-Forecasting*, National Science Foundation, \$300,000.

## SERVICE

### Department Service

Co-Coach, International Design Build Student Group, TEXO Student Competitions, Dallas, Texas 2012.

Committee Member, CEET Graduate Certificate, Fall 2011.

### Professional Service

Reviewer, Journal Article, Journal of Computer-Aided Civil and Infrastructure Engineering.

Reviewer, Conference Paper & Journal Article, Transportation Research Board of National Academics.

Reviewer, Conference Paper, Construction Research Congress 2012, West Lafayette, Indiana (January 17, 2012 - February 17, 2012).

Reviewer, Conference Paper, American Society of Engineering Education - 2012 Annual Conference, San Antonio, Texas (January 17, 2012 - February 17, 2012).

**Dr. Ali Nejat**  
Texas Tech University  
(806) 742-3538  
ali.nejat@ttu.edu

## TEACHING

### Courses Taught

#### Texas Tech University

CE 7000, Research, 1 course.

EGR 1207, Engineering Graphics: Software B, 2 courses.

## RESEARCH

### Published Intellectual Contributions

#### Abstract

Ghebrab, T., Darwish, M., Nejat, A. *Enhancing Construction Engineering Internship to a Viable Learning Mechanism*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Darwish, M., and Nejat, A. *Crossing Borders: Undergraduate Design Build Team*, Latin American and Caribbean Consortium of Engineering Institutions Conference, Panama City, Panama, 2012.

Darwish, M., and Nejat, A. *Globalization Effects on Safety and Health of Construction Workers*, Creative Construction Conference 2012, Budapest, Hungary.

#### Conference Proceeding

Nejat, A and Mohsenian-Rad, A. H. *Electric Load Forecasting: A Multi-Agent Systems Approach*, submitted to the 15<sup>th</sup> International IEEE Conference on Intelligent Transportation Systems – ITSC 2012 IEEE, March 2012.

Nejat, A. *Modeling Dynamics of Post Disaster Recovery*. Construction Research Congress 2012, Purdue University, West Lafayette, Indiana, May 2012.

Nejat, A., Darwish, M., Ghebrab, T. *BIM Teaching Strategy for Construction Engineering Students*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Darwish, M., Nejat, A. *Globalization and the new challenges for construction engineering education*. American Society for Engineering Education 2012 Annual Conference, San Antonio, Texas, June 2012.

Nejat, A., Anderson, S., Damnjanovic, I. and Gunby, M. *Alternative Contracting Methods to Accelerate Project Completion: Lessons Learned By State Transportation Agencies – Results from NCHRP Synthesis Study 379*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL, February 2009.



Nejat, A., Damnjanovic, I. and Anderson, S. *Effects of Project Cost Reduction Methods*. Proceedings of the Transportation Research Board Meeting, Washington, DC 2008.

Nejat, A., Anderson, S., Damnjanovic, I. and Gunby, M. *Alternative Contracting Methods to Accelerate Project Completion: Lessons Learned By State Transportation Agencies*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL 2009.

Pandit, D., Anderson, S., Damnjanovic, I. and Nejat, A. *Assessment Of Strategies And Methods To Reduce Construction Costs While Maintaining Quality*. Proceedings of 1<sup>st</sup> International Conference on Transportation Construction Management, Orlando, FL 2009.

Nejat, A., and Damnjanovic, I. *Modeling Impact of Transportation Infrastructure on Post-Disaster Recovery*. Proceedings of the Transportation Research Board Meeting, Washington, DC 2009.

Nejat, A., and Damnjanovic, I. *A game theoretic approach to Modeling Dynamics of post-disaster Recovery*. Proceedings of the 4<sup>th</sup> Annual Inter-University Symposium on Infrastructure Management (AISIM), Austin, Texas 2008.

Nejat, A. and Damnjanovic, I. *The Value of Performance Warranties for Toll Road Projects: Developer's Dilemma in Transferring Pavement Performance Risk*. Proceedings of the Transportation Research Board Meeting, Washington DC, January 2008.

### **Manuscript**

Nejat, A. (2012). Agent Based Modeling of Post-Disaster Reconstruction. Submitted to the Journal of Computer-Aided Civil and Infrastructure Engineering, March 2012.

Nejat, A. and Damnjanovic I. (2010), *Effects of Project Cost Reduction Methods*, Transportation Research Record: Journal of Transportation Research Board, No. 2151, Transportation Research Board of National Academics, Washington DC, pp. 28-35.

### **Technical Reports**

Ramesh, S., Nejat, A, Anderson, S., and Damnjanovic, I. *Synthesis on Construction Unit Cost Development*, Texas Transportation Institute Technical Report 0-6023-1, 2009

NCHRP Synthesis 379: Selection and Evaluation of Alternative Contracting Methods to Accelerate Project Completion, National Cooperative Highway Research Program (NCHRP), Transportation Research Board of National Academics, 2008.

Performance Specifications for Rapid Highway Renewal-Value Assessment and Development of Specification Framework. Prepared for Strategic Highway Research Program 2, Transportation Research Board of The National Academics, 2009.

## Research

### Awarded:

Nejat, A. *BIM Tracker*, Texas Tech University Commercialization Development Grant, Texas Tech University, \$38,995.

### Submitted:

Nejat, A (Principal), Liang, Daan (Co-Principal), Cong, Zhen (Co-Principal), *Agent-Based Behavioral Modeling of Elderly Before and After Disasters*, National Science Foundation, \$324,612.

Nejat, A (Principal), Mohsenian, Amir Hamed (Co-Principal), *An Agent-Based Approach to Temporospatial PHEV Load-Forecasting*, National Science Foundation, \$300,000.

## SERVICE

### Department Service

Co-Coach, International Design Build Student Group, TEXO Student Competitions, Dallas, Texas 2012.

Committee Member, CEET Graduate Certificate, Fall 2011.

### Professional Service

Reviewer, Journal Article, Journal of Computer-Aided Civil and Infrastructure Engineering.

Reviewer, Conference Paper & Journal Article, Transportation Research Board of National Academics.

Reviewer, Conference Paper, Construction Research Congress 2012, West Lafayette, Indiana (January 17, 2012 - February 17, 2012).

Reviewer, Conference Paper, American Society of Engineering Education - 2012 Annual Conference, San Antonio, Texas (January 17, 2012 - February 17, 2012).

