

Dr. Vahid Khiabani

Middle Tennessee State University

<http://vahid-khiabani.com>

EDUCATION

North Dakota State University, Fargo, ND

PhD, Industrial and Manufacturing Engineering, August 2014

Dissertation title: **Multi-objective Optimal PMUs Placement in Power Systems**. Overall GPA 4.00

Eastern Mediterranean University, Gazimagusa (Famagusta), North Cyprus

Master of Science, Industrial Engineering (ABET Accredited), August 2008

Dissertation title: **A Study on Extended Warranty Models**. Overall GPA 3.98

Azad University Tabriz Branch, Tabriz, Iran

Bachelor of Science, Applied Mathematics, August 2004

EXPERIENCE

Middle Tennessee State University, Murfreesboro, TN

- Assistant Professor of Engineering Technology Aug 2015–Present
 - Six Sigma (ET 6190)
 - PMI Project Management (ET 6300)
 - Industrial Quality Technology (ET 3960)

Minnesota State University, Moorhead, MN

- Assistant Professor of Operations & Project Management Aug 2014–July 2015
 - Occupational Safety and Health (OM 393)
 - Quality Planning and Implementation (OM 482)
 - Production and Inventory Management (OM 485)
 - Project Management and Scheduling (PMGT 300)
 - Computer Applications for Technologists (OM 394)

North Dakota State University, Fargo, ND

- Research Assistant
 - VA Funded Research - Care Integration Optimization (Simulation & Optimization) Oct 2013–Sep 2014
 - VA Funded Research - Value Analysis of Clinic Visits (Lean & process improvement) Oct 2013–Sep 2014
 - VA Funded Research - Implementing Andon in Healthcare Delivery (Lean & process improvement) Aug 2012-Oct 2013
 - NSF Funded Research - Data-driven Support for the Smart Farm (Data mining, economic model) May 2012-Aug 2014
 - Utilized Excel, SQL, Mathematica, MATLAB, Arena 14 and Minitab.
- Graduate Teaching Assistant Aug 2009-Jan 2014
 - Evaluation of Engineering Data (undergraduate/graduate course)

Eastern Mediterranean University, Gazimagusa/Via Mersin 10 Turkey

- Instructed Software Classes Spring 2006 – Spring 2008

Minitab, SPSS, Arena 3.0, Excel, PowerPoint, Word, LINDO, LINGO, Block Plan

- Teaching Assistant Spring 2006 – Spring 2008

Courses included System modeling and simulation, Statistical applications in engineering, Facilities planning and design, Quality engineering, Industrial training-I, Fundamentals of computing, Introduction to industrial engineering

- Lab Operator in Simulation and Optimization Laboratory Fall 2006

Tabriz Carpet Company (The significant exporter of the year 2002), Tabriz, Iran

Project Manager 2002-2006

CERTIFICATES

- OEM Lean 101 Principles of Lean Thinking Certificate February 2012
- ASQ Certified Six Sigma Green Belt, Cert No. 6846 December 2011
- Masters of Success (MOS) Leadership Program Certificate, NDSU December 2011

TRAINING COURSES AND WORKSHOPS

- SAS Visual Analytics, SAS Global Academic Program, INFORMS Annual Meeting, Minneapolis, USA October 2013
- JMP® Workshop: Interactive and Visual Data Analysis with JMP 11, INFORMS Annual Meeting, Minneapolis, USA October 2013
- Solving Business Problems with SAS Analytics and OPTMODEL, INFORMS Annual Meeting, Minneapolis, USA October 2013
- Bayesian estimation supersedes the t test Workshop, The Center for Visual and Cognitive Neuroscience and the Department of Psychology, NDSU March 2013

COMPUTER SKILLS

Mathematica, MATLAB, Maple, SPSS, Minitab, Arena, LINDO, LINGO, Storm, SQL, SAS, C#, JMP, CPLEX

HONORS AND AWARDS

- Phi Kappa Phi National Honor Society
- Ranked in the top 1% amongst all the students who graduated from Industrial Engineering department, Eastern Mediterranean University until the academic year 2008-2009.

EDITORIAL

- Editorial Board Member for Canadian Center of Science and Education, Engineering Management Research.
- Editorial Advisory Board Member for Society for Science and Engineering, Archives of Business Research.

PEER-REVIEW ACTIVITY

- Journal of Risk and Reliability
- International Journal of Electrical Power and Energy Systems
- IEEE Transactions on Power Systems

PROFESSIONAL MEMBERSHIPS

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| • Student member of INFORMS | 2013-Present |
| • Phi Kappa Phi National Honor Society | 2011-Present |
| • President, Persian Association (PA), NDSU | 2011-2012 |
| • Student member American Society for Quality (ASQ) | 2011-Present |
| • Student member of IIE | 2010-Present |
| • Student member of IEEE | 2008-Present |

SELECTED PUBLICATIONS AND PRESENTATIONS

Farahmand, K., **V. Khiabani** and Yonchao MA. Patient Safety– Implementing Andon in Healthcare, Healthcare Systems Process Improvement Conference. Society of Health Systems, Orlando, Florida, USA, February 2014. Accepted.

Farahmand, K., N. Dharmadhikari and **V. Khiabani**. Analysis of Transportation Economics of Sugar-beet in the Red River Valley of ND and MN using Geographical Information System, Journal of Renewable Agriculture, 1(7), October 2013, pp: 126-131. <http://dx.doi.org/10.12966/jra.10.02.2013>.

Khiabani, V., and K. Farahmand. Max Covering Phasor Measurement Units Placement for Partial Power system Observability, Engineering Management Research, 2(1), May 2013, pp: 43-54. <http://dx.doi.org/10.5539/emr.v2n1p43>.

Reliability Based Joint Placement of Phasor and Flow Measurements for Observability of Power Network, INFORMS Annual Meeting, Minneapolis, Minnesota, USA, October 2013.

Farahmand, K., **V. Khiabani**, N. Dharmadhikari and Anne Denton. Economic Model Evaluation of Largest Sugar-beet Production in U.S. States of North Dakota and Minnesota, International Journal of Research in Engineering and Science (IJRES), August 2013, pp: 11-24.

Khiabani, V., E. Erdem, K. Farahmand and K. Nygard. Genetic Algorithm for Instrument Placement in Smart Grid, World Congress on Nature and Biologically Inspired Computing (NaBIC), Fargo, USA, August 2013, pp: 213-218.

Khiabani, V., M. Hamidi, K. Farahmand and R. Aghatehrani. A Goal Programming Approach for Optimal PMU placement, Journal of International Review on Modelling and Simulations (I.RE.MO.S.), 6(2), April 2013, pp: 490-497.

Farahmand, K., Jose Victorino Marquez Grajales and **V. Khiabani**. Manufacturing the 7000 Gear Train Mechanical Assembly, International Journal of Engineering and Technology (IJET), 3(3), March 2013, pp: 288-312.

Khiabani, V., R. Kavasseri and K. Farahmand. A Reliability Based Multi-Objective Formulation for Optimal PMU Placement, Journal of International Review on Modelling and Simulations (I.RE.MO.S.), 5(4), 2012, pp: 1640-1644.

Khiabani, V.H., Yadav, O., & R. Kavasseri. Reliability-Based Placement of Phasor Measurement Unit in Power Systems, Proc. Institution of Mechanical Engineers (IMechE), Part O: Journal of Risk and Reliability, 226(1), Feb 2012, pp: 109-117.

S. Reza Sajjadi, Mohsen Hamidi, Kambiz Farahmand, **Vahidhossein Khiabani**. A Greedy Heuristic Algorithm for the Capacitated Location-Routing Problem, Proc. IERC Annual Conference, May. 2011.

Khiabani, V., and A. Rangan. Extended warranty policies with varying objectives, Int. J. Industrial and Systems Engineering (IJISE), 10(4), 2012, pp: 430-450.

Rangan, A., and **V. Khiabani**. Extended Warranty policies with Warranty Options, Proc. IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Singapore, Dec 2008, pp: 576-580.