ADEL E. ALAEDDINI

Website: www.alaeddini.org E-mail: adel.alaeddini@utsa.edu Phone: (210) 458-8747 Mail: 03.04.02 Engineering Building, One UTSA Circle, San Antonio, TX, 78249

EDUCATION

Postdoc	The University of Michigan, Ann Arbor, Michigan Industrial and Operations Engineering Advisors: Dr. Romesh Saigal and Dr. Katta Murty	2011-2012
PhD	Wayne State University, Detroit, Michigan Industrial and Systems Engineering Advisor: Dr. Kai Yang	2008-2011
MS	Wayne State University, Detroit, Michigan Computer Science-Artificial Intelligence Advisors: Dr. Chandan K. Reddy	2009-2011

APPOINTMENTS

Associate Professo	The University of Texas at San Antonio Mechanical Engineering	2018-Present
Assistant Professo	The University of Texas at San Antonio Mechanical Engineering	2012-2018
Postdoc	University of Michigan, Ann Arbor Industrial and Operations Engineering	2011-2012
Instructor	Azad University-Qazvin Branch, Iran Mechanical and Industrial Engineering	2004-2008

AWARDS & HONORS

TWARDS & HUNORS	
Best Student Paper Competition - Finalist Quality Statistics and Reliability (QSR) Division Institute for Operations Research and the Management Sciences (INFORMS) Conf., Seattle, WA	2019
Best Poster Award Quality Control and Reliability Engineering (QCRE) Track Institute of Industrial & Systems Engineering (IISE) Annual Conference, Orlando, FL	2019
Most Influential Service Operations Paper Award - Finalist Production and Operations Management (POMS) Conference, Houston, TX	2018
Young Investigator Award Air Force Office of Scientific Research (AFOSR)	2016
Summer Faculty Fellowship Air Force Office of Scientific Research (AFOSR)	2016
Pierskalla Competition - Finalist Health Applications Society Institute for Operations Research and the Management Sciences (INFORMS) Conf., Austin, TX	2010
Best Student Paper Award Quality Control and Reliability Engineering (QCRE) Track Industrial Engineering Research Conference (IERC), Cancun, Mexico	2009

PAGE 1|20 REV 10.2019

Selected Paper
International Fuzzy Systems Association (IFSA) World Congress, Cancun, Mexico

National Elite Scholar of Iran

2007

FUNDED PROPOSALS

Department of Homeland Security-United States Coast Gaurd Novel Interdisciplinary modeling and deep-learning approach towards improved Leeway Divergence prediction PI: K. Bhaganagar, Co-PI: A. Alaeddini	01/01/20-12/31/20 \$289,379
Schlumberger Co. Downhole Data Analysis Improvement PI: P. Rad, Co-PI: A. Alaeddini	02/01/20-09/30/20 \$110,000
National Formosa University, South Korea Education, Training and Mentoring Program in Advanced Manufacturing/Industry 4.0 PI: F.F. Chen, Co-PI: A. Alaeddini, A. Jafari, P. Bhounsule, H. Wang	08/15/19- 08/14/22 \$ 417,697
Air Force Office of Scientific Research (AFOSR) (Final Stage of Approval) Active Reinforcement Learning for Adaptive Formation of High Performing Teams of Experts PI: A. Alaeddini	08/01/21-08/31/21 \$29,815
Andeavor Co. Predictive Analytics of Safety Incidents PI: A. Alaeddini, F.F. Chen	01/07/18-30/12/19 \$20,000
Air Force Office of Scientific Research (AFOSR) - Young Investigator Award An Active Learning Methodology for Design and Optimization of Complex Expensive Tests (FA9550-16-1-0171) PI: A. Alaeddini	06/01/16-05/31/20 \$371,937
National Institutes of Health (NIH/NIGMS) A Novel Probabilistic Methodology for Prediction of Emerging Diseases in Patients with Multiple Chronic Conditions (1SC2GM118266-01) PI: A. Alaeddini	05/04/16-03/31/20 \$441,000
Air Force Research Laboratory (AFRL-MLRCP) Prediction and Optimization in Engineered Residual Stresses (ERS) with Minimum Data (FA8650-13-C-5800) PI: A. Alaeddini	08/01/16-01/21/17 \$99,723
Department of Veteran Affairs Chronic Effects of Neuro-trauma (VA268-15-D-0073) PI: L. Potter, Co-PI: A. Alaeddini	09/29/15-09/28/16 \$66,234
Harland Clarke Co. Image-based Process Monitoring Phase 1: Real-time Quality Monitoring of Printing Process PI: A. Alaeddini, Co-PI: S. Agaian	07/01/15-06/30/16 \$ 77,630
Harland Clarke Co. Predictive Maintenance - Phase 2: From Data to Performance Metrics PI: C. Saygin, Co-PIs: A. Alaeddini, F. Chen, H.D. Wan, K. Castillo	07/01/15-06/30/16 \$90,000
Harland Clarke Co. Process Excellence and Continuous Improvement at Harland Clarke PI: H. Wan Co-PI: A. Alaeddini, C. Saygin, F. Chen, K. Castillo	08/01/15-07/31/17 \$62,000

Page 2 /20 Rev 6.2020

DEL E. ALAEDDINI	CURRICULUM VITAI
Flat Rock Engineering Co. An Arial-Based Technology for Integrated Monitoring of Pipelines PI: A. Montoya, Co-PIs, <u>A. Alaeddini</u> , V. Maldonado	09/01/14-08/30/15 \$84,272
Toter LLC. Analysis of Warranty Claims for the City of San Antonio Automated Waste Collection System PI: A. Alaeddini	07/20/14-09/30/14 \$12,500
The University of Texas at San Antonio - GREAT Integrative Statistical and Operational Methods for Effective Chronic Disease Management PI: A. Alaeddini	09/01/14-09/30/15 \$20,000
University of Texas Health Science Center (UTHSC) Applying Lean Principles to the Faculty Appointment Process at UTHSC PI: A. Alaeddini	03/01/14-05/15/14 \$7,500
University of Texas Health Science Center (UTHSC) Applying Lean Principles to the Faculty Appointment Process at UTHSC- VP- AFSA PI: A. Alaeddini	07/15/14-09/15/14 \$5000
Harland Clarke Co. Predictive Maintenance - Phase 1: A Roadmap for Intelligent Maintenance PI: C. Saygin, Co-PIs: A. Alaeddini, F. Chen, H.D. Wan, K. Castillo	02/01/13-07/30/14 \$77,630
Harland Clarke Co. Continuous Improvement and Sustainability at Harland Clarke PI: H. Wan Co-PI: A. Alaeddini, C. Saygin, F. Chen, K. Castillo, H. Rashed-Ali	07/01/13-06/30/15 \$33,000
National Institutes of Health (NIH/NIAMS) Intrafibrillar Mineralization vs. Bone Fragility (1R21AR065641-01) PI: X. Wang, Co-Investigators: <u>A. Alaeddini</u> , H.V. Remmen, J. Almer	12/01/13-11/30/15 \$362,174
Chrysler LLC. Advanced-Data Analysis Module Development for the New Generation of Body Shop Analysis Toolbox PI: K. Yang, Co-PI: W. Yang, Senior Personnel: <u>A. Alaeddini</u>	2009-2011 \$77,000
National Science Foundation (NSF) Improving Clinical Access through Optimal Determination of Patient Aligned Care Team (PACT) PIs: K. Yang, R. Saigal, Senior Personnel: <u>A. Alaeddini</u> , Consultant: K. Murty	2012-2014 \$300,000
Veteran Engineering Resource Center-VAPHS-VERC Patient Panel Determination for Patient Aligned Care Team (PACT) PI: K, Yang, Senior Personnel: A. Alaeddini	2011-2012 \$200,000
Veteran Engineering Resource Center-VAPHS-VERC The National Initiatives to Reduce Missed Opportunities PI: K. Yang, Senior Personnel: A. Alaeddini	2010-2013 \$600,000
Veteran Engineering Resource Center-VA-CASE Patient Discharging Error and Re-admission Reduction PI: K. Yang, Senior Personnel: A. Alaeddini	2011-2012 \$100,000
TELLECTUAL PROPERTY	
Invention Disclosure 2015.002.UTSA An Integrated Pipeline Monitoring System Utilizing UAV-based Sensor Technology and Image Analysis	2015
Inventors: A. Alaeddini, V.H. Maldonado, and A. H. Montova Rodriguez.	

Inventors: A. Alaeddini, V.H. Maldonado, and A. H. Montoya Rodriguez.

PAGE 3 /20 REV 6.2020

PUBLICATIONS

Peer-Reviewed Journal Publications

[J1]	J. Ocampo De Los Rios, H.C. Han, <u>A. Alaeddini</u> , M. Thomsen, Characterization of residual stresses from cold expansion using spatial statistics, <i>Fatigue & Fracture of Engineering Materials & Structures</i> , Accepted,	2020
[J2]	R. Meka, <u>A. Alaeddini</u> , S. Oyama, K. Langer, An Active Learning Methodology for Efficient Estimation of Expensive Noisy Black-Box Functions using Gaussian Process Regression, <i>IEEE Access</i> , In Press.	2020
[J3]	S.H. Silva, <u>A. Alaeddini</u> , P. Najafirad, Temporal Graph Traversals using Reinforcement Learning with Proximal Policy Optimization, <i>IEEE Access</i> , In Press.	2020
[J4]	S.H. Faruqui, <u>A. Alaeddini</u> , M.C.W. Chang, S. Shirinkam, C.A. Jaramillo, P. Rad, J. Wang, M.J. Pugh. Summarizing Complex Graphical Models of Multiple Chronic Conditions Interactions using the 2nd Eigenvalue of Graph Laplacian, <i>JMIR Medical Informatics</i> , In Press. DOI: 10.2196/16372	2020
[J5]	J. Sumner, <u>A. Alaeddini</u> , Analysis of Feature Extraction Methods for Prediction of 30-day Hospital Readmissions, <i>Methods of Information in Medicine</i> , In Press.	2020
[J6]	J. Nielson, K. Bhaganagar, R. Meka, <u>A. Alaeddini</u> , Using Atmospheric Inputs for Artificial Neural Networks to Improve Wind Turbine Power Prediction, 190 <i>Energy</i> (2020): 116-273.	2020
	5-Year Impact Factor: 5.747	
[J7]	S.H.A. Faruqui, R. Meka, A. Alaeddini, Y. Du, C. Li, S. Shirinkam, J. Wang, Development of a Deep Learning Model for Dynamic Forecasting of Blood Glucose Level for Type 2 Diabetes Mellitus: Secondary Analysis of a Randomized Controlled Trial, <i>JMIR mHealth and uHealth</i> , 7.11 (2019): e14452.	2019
	Impact Factor: 4.301	
[J8]	S. Shirinkam, <u>A. Alaeddini</u> , E. Gross, Identifying the Number of Components in Gaussian Mixture Models using Numerical Algebraic Geometry, <i>Journal of Algebra and its Applications</i> , (2019), In Press. DOI: 10.1142/S0219498820502047	2019
[J9]	S. Martinez, <u>A. Alaeddini</u> , K. Langer, A Sequential Weighted Laplacian Regularized Optimal Design for Response Surface Modeling of Expensive Functions with Outliers: An Application in Linear Elastic Fracture Mechanics, <i>Quality and Reliability Engineering International</i> , 35.6 (2019):1911–1928. DOI: 10.1002/qre.2483	2019
	IISE 2019, Best Poster Award of Quality Control and Reliability Engineering Track	
[J10]	A. Alaeddini, P. Shi, J. E. Helm, S.H. Faruqui, An Integrated Framework for Reducing Hospital Readmissions using Risk Trajectories Characterization and Discharge Timing Optimization, <i>IIE Transactions on Healthcare Systems Engineering</i> , 9.2 (2019): 172-185. DOI: 10.1080/24725579.2019.1584133	2019
[J11]	A. Alaeddini, R. Meka, S. Martinez, E. Kraft, Sequential Laplacian Regularized V-Optimal Design of Experiments for Response Surface Modeling of Expensive Tests: An Application in Wind Tunnel Testing, <i>IIE Transactions</i> . 51.5 (2019): 559-576. DOI: 10.1080/24725854.2018.1508928	2019
	INFOMRS 2019, Finalist of Best Student Paper Award of Quality Statistics & Reliability Eng. <u>Division</u>	
[J12]	S.H. Faruqui, <u>A. Alaeddini</u> , C.A. Jaramillo, J.S. Potter, M.J. Pugh. Mining patterns of comorbidity evolution in patients with multiple chronic conditions using unsupervised multilevel temporal Bayesian network. <i>PLOS One.</i> 13.7 (2018):1-22. DOI: 10.1371/journal.pone.0199768 J	2018

PAGE 4 /20 REV 6.2020

[J13]	<u>A. Alaeddini</u> , A. Motasemi, S.H.A. Faruqui, A Spatiotemporal Outlier Detection Methodology based on Partial Least Square Regression and Area Delaunay Triangulation for Image-based Process Monitoring, <i>IIE Transactions</i> , 50.2 (2018): 74-87. DOI: 10.1080/24725854.2017.1386336	2018
[J14]	A. Alaeddini, C. Jaramillo, M.J. Pugh, S.H.A. Faruqui, Mining Major Transitions of Chronic Conditions in Patients with Multiple Chronic Conditions, <i>Methods of Information in Medicine</i> , 56.5 (2017): 391-400. DOE: doi: 10.3414/ME16-01-0135	2017
[J15]	A. Alaeddini, SH. Hong, A Multi-Way Multi-Task Learning Approach for Multinomial Logistic Regression: An Application in Joint Prediction of Appointment Miss-Opportunities across Multiple Clinics, <i>Methods of Information in Medicine</i> , 56.4 (2017): 294-307. DOI: 10.3414/ME16-01-0112.	2017
[J16]	M. H. Bakhtiarifar, A. Amiri, <u>A. Alaeddini</u> , Economic-Statistical Design of Shewhart Control Charts with Fuzzy Parameters, <i>Journal of Intelligent & Fuzzy Systems</i> , 32.6 (2017): 3961-3971. DOI: 10.3233/JIFS-151097.	2017
[J17]	A. Motasemi, <u>A. Alaeddini</u> , and C. Zou. An Area-based Methodology for the Monitoring of General Linear Profiles. <i>Quality and Reliability Engineering International</i> , (2016): 159-181. DOI: 10.1002/qre.1998.	2016
[J18]	S. Shirinkam, <u>A. Alaeddini</u> , H. Millwater, On the Application of Multi complex Algebras in Numerical Integration, <i>Applied Mathematics & Information Sciences</i> , 10.1 (2016): 1-9. DOI: 10.18576/amis/100101.	2016
[J19]	J. E. Helm, <u>A. Alaeddini</u> , J. Stauffer, K. Bretthauer, Reducing Hospital Readmissions by Integrating Empirical Prediction with Resource Optimization, <i>Production and Operations Management</i> , 25.2 (2015): 233–257. DOI: 10.1111/poms.12377.	2015
	POMS 2018, Finalist of Most Influential Service Operations Paper Award	
[J20]	A. Alaeddini, Ch. K. Reddy, K. Yang, Predicting Disturbances in Appointment Scheduling through Hybrid Probabilistic Modelling <i>IIE Transactions on Healthcare Systems Engineering</i> , 5.1 (2015): 14-32. DOI: 10.1080/19488300.2014.993006.	2015
[J21]	A. Alaeddini, K. Yang, H. Mao, A. Murat, B. Ankenman, An Adaptive Sequential Experimentation Methodology for Expensive Response Surface Optimization- Case Study in Traumatic Brain Injury (TBI) Modelling. <i>Quality and Reliability Engineering International</i> , (2014): 767-793. DOI: 10.1002/qre.1523.	2014
[J22]	G. Abdella, K. Yang, <u>A. Alaeddini</u> , Multivariate Adaptive Approach for Monitoring Simple Linear Profiles (VSSI-T2), <i>International Journal of Data Analysis Techniques and Strategies</i> (IJDATS), Special Issue for MicroArray Quality control, 6.1 (2014): 2-14.	2014
[J23]	A. Alaeddini, A. Murat, K. Yang, B. Ankenman, An Efficient Adaptive Sequential Methodology for Expensive Response Surface Optimization, <i>Quality and Reliability Engineering International</i> , 29.6 (2013): 799-817. DOI: 10.1002/qre.1432	2013
[J24]	A. Alaeddini, K. Yang, A. Murat, ASRSM: A Sequential Experimental Design for Response Surface Optimization, <i>Quality and Reliability Engineering International</i> , 29.2 (2013): 241-258. DOI: 10.1002/qre.1306.	2013
	IERC 2010, Best Paper Award of Quality Control and Reliability Engineering Track	
[J25]	G. Abdella, K, Yang, <u>A. Alaeddini</u> , On the Effect of Location of Explanatory Variable on Monitoring Polynomial Quality Profiles, <i>International Journal of Engineering</i> , 25.2 (2012): 131-140 ISSN 1025-2495.	2012
[J26]	A.Alaeddini, I. Dogan, Using Bayesian Networks for Root Cause Analysis in Statistical Process Control, <i>Expert Systems with Applications</i> , 38.9 (2011): <u>11230</u> -11243 5-Year Impact Factor: 4.577	2011

PAGE 5 /20 REV 6.2020

[J27]	Y. Guo, K. Yang, <u>A. Alaeddini</u> , A Truncated Logistic Regression Model in Evaluation of Probability of Detection, <i>Quality Engineering</i> , 23.4 (2011): <u>365</u> -377	2011
[J28]	A. Alaeddini, K. Yang, S. Q. Yu, Ch. K. Reddy, A Probabilistic Model for Predicting the Rate of No-Show in Hospital Appointments, Healthcare Management Science, 14.2 (2010): 146-157, DOI: 10.1007/s10729-011-9148-9.	2010
	INFORMS 2010, Finalist of Pierskalla Award (Health Applications Section)	
[J29]	M.H. Fazel Zarandi, <u>A. Alaeddini</u> , A General Fuzzy-Statistical Clustering Approach for Estimating the Time of Changes in Variable Sampling Control Charts, <i>Information Sciences</i> , 180 (2010): 3033–3044	2010
[J30]	M.H. Fazel Zarandi, <u>A. Alaeddini</u> , I.B. Turksen, M. Ghazanfari., Using Adaptive Neuro-Fuzzy Systems to Monitor Linear Quality Profiles, <i>Journal of Uncertain Systems</i> , 4.2 (2010): 147-160	2010
[J31]	<u>A. Alaeddini, K. Yang, Adaptive Sequential Experiment Methodology for Response Surface Optimization, International Journal Quality Technology and Engineering, 1</u> (2009): 20-61.	2009
[J32]	<u>Alaeddini</u> , M. Ghazanfari, M. Amin Nayeri, A Hybrid Fuzzy-Statistical Clustering Approach for Estimating the Time of Changes in Shewhart Control Charts, <i>Information Sciences</i> , 170.11 (2009): 1769-1784.	2009
	Impact Factor: 5.524	
[J33]	M. Ghazanfari, A. Alaeddini, S.T.A. Niaki, M.B.G. Aryanejad, A Clustering Approach to Identify the Time of a Step Change in Shewhart Control Charts, <i>Quality and Reliability Engineering International</i> , 24.7 (2008): 765-778.	2008
[J34]	M.H. Fazel Zarandi, <u>A. Alaeddini</u> , I.B. Turksen, A Hybrid Fuzzy Adaptive Sampling –Run Rules for Shewhart Control Charts, <i>Information Sciences</i> , 17.8 (2008): 1152–1170.	2008
	Impact Factor: 5.524	
[J35]	M. Ghazanfari, <u>A. Alaeddini</u> , K. Noghondarian, A Novel Fuzzy Clustering Approach for Estimating the Time of Step Changes in Shewhart Control Charts, <i>International Journal of Industrial Engineering and Production Research</i> , 19.4 (2008): 39-64.	2008
Book C	hapters	
(A. Alaeddini, K.G. Murty, DSS (Decision Support System) for Allocating Appointment Times to Calling Patients at a Medical Facility, Case Studies in Operations Research, Editor: K.G. Murty, Springer New York, (2015): 83-109.	2015
1	M.H. Fazel Zarandi, A. Alaeddini, I.B. Turksen, M. Ghazanfari, Analysis and Design of Intelligent Systems Using Soft Computing Techniques, Editors: Patricia Melin, Oscar Castillo, Eduardo G. Ramirez, Janusz Kacprzyk, Witold Pedrycz, Springer-Verlag Berlin and Heidelberg GmbH & Co. KG, (2007).	2007
Papers :	under Revision/Review	
[UR1]	R. Meka, <u>A. Alaeddini</u> , Nonso Ovuegbe1, Pranav Bhounsule, P. Rad, k. Yang, Multi-Armed Bandit Regularized Expected Improvement for Efficient Global Optimization of Expensive Computer Experiments, <i>IEEE Access</i> , Under the second review.	2020
[UR2]	S.H.A. Faruqui, A. Alaeddini, J. Wang, C. Jaramillo, M.J. Pugh, Functional Continuous Time Bayesian Networks for Exploring the Evolution of Multiple Chronic Conditions, <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , (2020), Under review.	2020
[UR32]	R. Meka, <u>A. Alaeddini</u> , K, Bhaganagar, A robust deep learning framework for short-term wind power forecast of a full-scale wind farm using atmospheric variables, Energy, Under Second Review.	2020

PAGE 6 /20 REV 6.2020

Papers	s in Preparation	
[W1]	S. Shirinkam, <u>A. Alaeddini</u> , A Generalization of Method of Moments using Homotopy Continuation, and Multi-Complex Algebras. To be submitted to the <i>Journal of Machine Learning Research</i> .	2020
[W2]	S. Martinez, <u>A.Alaeddini</u> , A Two-Layer Stochastic Process Model for Active-LearningTest-Point Selection and Response Surface Modeling. To be submitted to <i>IEEE Access</i> .	2020
[W3]	S.H.A. Faruqui, <u>A. Alaeddini</u> , C. Jaramillo, M.J. Pugh, J. Wang, Predictive Modeling and Control of Multiple Chronic Conditions using Nonlinear State Space Models. To be submitted to <i>Nature Scientific Report</i> .	2020
Confe	rence Proceedings	
[CP1]	IDTEC/CIE 2020, St. Louis, MO P. Bhounsule, A. Alaeddini, M. Kim, Closed-form approximation of the step-to-step map enables computationally efficient and fast optimal control of legged robots	2020
[CP2]	HSE 2015, Nashville, TN S. Guha, <u>A. Alaeddini</u> , A Predictive Model for Multi-Stage Manufacturing using Nonlinear Partial Least Square Methods.	2015
[CP3]	FAIM 2014, San Antonio, TX A. Alaeddini, Designing a Fuzzy Control System for Non-Random Pattern Detection in Individual Observation Control Charts.	2014
[CP4]	IERC 2011, Reno, NV A. Alaeddini, K. Yang, C.K. Reddy, A Probabilistic Model for Decreasing the Rate of No-Show in Hospital Appointments.	2011
[CP5]	ICMIE 2010, Singapore K. Yang, G. M. Abdella, <u>A. Alaeddini</u> , On Monitoring of Linear Quality Function under Uncertainty of the Process's Shift.	2010
[CP6]	IERC 2010, Cancun, Mexico A. Alaeddini, K. Yang, A. Murat, Adaptive Sequential Experimentation Methodology for Response Surface Optimization.	2010
	IERC 2010, Best Paper Award of Quality Control and Reliability Engineering Track	
[CP7]	IFSA 2007 World Congress, Cancun, Mexico M.H. Fazel Zarandi, <u>A. Alaeddini</u> , I.B. Turksen, M. Ghazanfari, A Neuro-Fuzzy Multi-Objective Design of Shewhart Control Charts.	2007
[CP8]	4th International Conference of Industrial Engineering, Iran, Tehran, R. Noorosana, <u>A. Alaeddini,</u> A New Approach for Monitoring Nonlinear Profiles.	2005
PRESE	NTATIONS	
Confe	rence Presentations	
[C1]	R. Meka, <u>A. Alaeddini</u> , An Active Learning Methodology for Efficient Estimation of Noisy Black-Box Functions using Gaussian Process Regression, <i>INFORMS 2019</i> , Seattle, WA.	2019
	Finalist of QSR Section Best Student Paper Competition	
[C2]	S.H.A. Faruqui, <u>A. Alaeddini</u> , C. A. Jaramillo, M.J. Pugh., An Active Learning Framework for Learning and Summarizing Healthcare Networks, <i>IISE 2019</i> , Orlando, Fl.	2019
[C3]	S.H.A. Faruqui, R. Meka, <u>A. Alaeddini</u> , J. Wang, Dynamic Forecasting of Diabetes Using Mobile-Based Health-Lifestyle Data, <i>IISE</i> 2019, Orlando, Fl.	2019

PAGE 7 /20 REV 6.2020

[C4]	R. Meka, <u>A. Alaeddini</u> , Active Reinforcement Learning Approach for Efficient Estimation of Complex Functions, <i>IISE 2019</i> , Orlando, Fl.	2019
[C5]	C. Chang, <u>A. Alaeddini</u> , Using Deep Learning for Predicting the Trajectory of Glucose Level in Patients with Type II Diabetes, <i>IISE 2019</i> , Orlando, Fl.	2019
[C6]	S.H.A. Faruqui, R. Meka, <u>A. Alaeddini</u> , Y. Du, C. Li, S. Shirinkam, J. Wang, Dynamic Forecasting, and Control of Type II Diabetes Using Mobile-Based Health Lifestyle Data, <i>SURF</i> 2019, San Antonio, TX.	2019
[C7]	A. Alaeddini, Predictive Modeling of Multiple Chronic Conditions Development, <i>INFORMS</i> 2018, Phoenix, AZ. ◆ <i>Invited Talk</i>	2018
[C8]	R. Meka, <u>A. Alaeddini,</u> Laplacian Regularized Gaussian Processes for Modeling Expensive Black-Box Functions, <i>INFORMS 2018</i> , Phoenix, AZ.	2018
[C9]	S. Martinez, A. Alaeddini, Weighted Laplacian-regularized Optimal Experimental Design for Expensive Tests with Outliers: An Application in Linear-elastic Fracture Mechanics, <i>INFORMS</i> 2018, Phoenix, AZ.	2018
[C10]	S.H.A. Faruqui, Adel Alaeddini, Carlos Jaramillo, Mary Jo Pugh, A Continuous Time Bayesian Network Model for Identifying Patterns of Multiple Chronic Conditions, <i>INFORMS 2018</i> , Phoenix, AZ.	2018
[C11]	S.H.A. Faruqui, Adel Alaeddini, Carlos Jaramillo, Mary Jo Pugh, A Continuous Time Bayesian Network for Learning the Evolution of Multiple Chronic Conditions, <i>SURF 2018, San Antonio, TX</i> .	2018
[C12]	S.H.A. Faruqui, Adel Alaeddini, Carlos Jaramillo, Mary Jo Pugh, Learning the Evolution of Multiple Chronic Conditions using Bayesian Networks, <i>IISE 2018</i> , Orlando, FL (2018).	2018
[C13]	S. Martinez, A. Alaeddini, A Sequential Weighted Laplacian Regularized Optimal Design of Experiments for Response Surface Modeling: An application in Linear Elastic Fracture Mechanics, <i>IISE 2018</i> , Orlando, FL.	2018
[C14]	S.H.A. Faruqui, <u>Adel Alaeddini</u> , Carlos Jaramillo, Mary Jo Pugh, Sara Shirinkam, Eigen Analysis of Graph Laplacian for Summarizing Bayesian Networks, <i>IISE 2018</i> , Orlando, FL.	2018
[C15]	<u>A. Alaeddini</u> , Mining Major Patterns of Disease Progression in Patients with Multiple Chronic Conditions, <i>INFORMS 2017</i> , <i>Houston</i> , <i>TX.</i> ◆ <i>Invited Talk</i>	2017
[C16]	R. Meka, <u>A. Alaeddini,</u> An Active Learning Approach for Gaussian Processes, <i>INFORMS 2017</i> , Houston, TX.	2017
[C17]	S. Martinez, <u>A. Alaeddini, A</u> Sequential Weighted Laplacian Regularized Optimal Design of Experiments for Response Surface Modelling of Expensive Tests, <i>INFORMS 2017</i> , Houston, TX.	2017
[C18]	S. Martinez, <u>A. Alaeddini</u> , Weighted Laplacian D-optimal Design of Experiments for Response Surface Modelling, <i>IISE Conference</i> , Pittsburgh, PA.	2017
[C19]	S.A. Faruqui, <u>A. Alaeddini</u> , Temporal Abstraction of Multiple Chronic Conditions Using Hierarchical Multi-Level Temporal Bayesian Network, <i>INFORMS 2017</i> , Houston, TX.	2017
[C20]	S.A. Faruqui, <u>A. Alaeddini,</u> Analyzing Patterns of Multiple Chronic Conditions and their Associated Behaviour in Temporal Direction using Multi-level Temporal Bayesian Network, <i>IISE Conference</i> , Pittsburgh, PA.	2017
[C21]	S. Shirinkam, <u>A. Alaeddini</u> , E. Gross, Numerical Algebraic Geometry for Identifying the Number of Components in Gaussian Mixture Models, <i>JMM 2017</i> , Atlanta, GA.	2017
[C22]	E. Gross, <u>A. Alaeddini</u> , S. Shirinkam, Model Selection for Gaussian Mixtures with Numerical Algebraic Geometry, <i>SIAM Conference on Applied Algebraic Geometry</i> , Atlanta, GA.	2017

PAGE 8 /20 REV 6.2020

[C23]	A. Alaeddini, Modelling the Accumulation of Comorbidities in Patients with Multiple Chronic Conditions, <i>INFORMS 2016</i> , Nashville, TN.	2016
[C24]	A. Alaeddini, An Integrated Framework to Model the Trajectories of Chronic Conditions, <i>INFORMS 2016</i> , Nashville, TN. <i>♦ Invited Talk</i>	2016
[C25]	A. Alaeddini, Modelling the Accumulation of Comorbidities in Patients with Multiple Chronic Conditions, <i>IISE Conference, Pittsburgh, PA</i> .	2015
[C26]	A. Alaeddini, An Integrated Framework to Model the Trajectories of Chronic Conditions, ISERC 2015, IISE Conference, Pittsburgh, PA. ◆ Invited Talk	2015
[C27]	<u>A. Alaeddini</u> , A Comprehensive Probabilistic Framework for Prediction of Patient Readmission to Medial Centers, <i>INFORMS 2014</i> , San Francisco, CA. <i>◆ Invited Talk</i>	2014
[C28]	A. Alaeddini, A Comprehensive Probabilistic Framework for Prediction of Patient Readmission to Medial Centers, Summer Institute on Evidence-Based Quality Improvement, San Antonio, TX. • Invited Talk	2014
[C29]	A. Alaeddini, A Comprehensive Probabilistic Framework for Prediction of Patient Readmission to Medial Centers, <i>Shared Visions: Improving Systems to Improve Lives Conf.</i> , San Antonio, TX. <i>♦ Invited Talk</i>	2014
[C30]	A. Alaeddini, Designing a Fuzzy Control System for Non-Random Pattern Detection in Individual Observation Control Charts, <i>FAIM 2014</i> , San Antonio, TX.	2014
[C31]	<u>A. Alaeddini,</u> Using Adaptive Neuro-Fuzzy Inference Systems to Monitor Non-Linear Quality Profiles, <i>FAIM 2014</i> , San Antonio, TX.	2014
[C32]	<u>A. Alaeddini</u> , A Comprehensive Probabilistic Framework for Prediction of Patient Readmission to Medial Centers, <i>INFORMS 2013</i> , Minneapolis, MN. <i>◆ Invited Talk</i>	2013
[C33]	<u>A. Alaeddini</u> , An Integrated Framework to Model the Trajectories of Chronic Conditions, <i>INFORMS 2013</i> , Minneapolis, MN. <i>♦ Invited Talk</i>	2013
[C34]	<u>A. Alaeddini,</u> A Comprehensive Bayesian Framework for Prediction of Patient Readmission to Medial Centers, <i>ISERC</i> , San Juan, PR.	2013
[C35]	A. Alaeddini, A Comprehensive Probabilistic Framework for Prediction of Patient Readmission to Medial Centers, <i>INFORMS 2012</i> , Phoenix, AZ. <i>◆ Invited Talk</i>	2012
[C36]	Ch. K. Reddy, <u>A. Alaeddini</u> , K. Yang, An Integrated Prediction and Optimization Model for Effective Appointment Scheduling in the Presence of No-shows, <i>INFORMS 2011</i> , Charlotte, NC.	2011
[C37]	Ch. K. Reddy, <u>A. Alaeddini</u> , K. Yang, A Probabilistic Model for Predicting Readmissions in Medical Centers, <i>INFORMS 2011</i> , Charlotte, NC.	2011
[C38]	A. Alaeddini, Feature Selection for Unlabelled Data with Complex Structures for Quality Improvement, <i>INFORMS 2011</i> , Charlotte, NC. <i>◆ Invited Talk</i>	2011
[C39]	A. Alaeddini, K. Yang, S. Shirinkam, Feature Selection for Unlabelled Data with Complex Structures for Quality Improvement, <i>IERC</i> 2011, Reno, NV.	2011
[C40]	<u>A. Alaeddini</u> , K. Yang, Ch. Reddy, A Probabilistic Model for Decreasing the Rate of Disruptions in Hospital Appointments, <i>IERC 2010</i> , Reno, NV.	2011
[C41]	A. Alaeddini, K. Yang, Self-learning strategies for experimental design and response surface optimization, <i>Wayne State University Graduate Research Symposium</i> , Detroit, MI.	2011
[C42]	K. Yang, G. M. Abdella, <u>A. Alaeddini,</u> A Variable Sampling Hoteling T2 Chart for Monitoring Simple Linear Quality Profiles, <i>INFORMS 2010</i> , Austin, TX.	2010
[C43]	K. Yang, <u>A. Alaeddini</u> , Susan Q. Yu, A Probabilistic Approach for Modelling the Rate of No-Show in Hospital Appointments, <i>INFORMS 2010</i> , Austin, TX.	2010

PAGE 9 /20 REV 6.2020

	Finalist of Pierskalla Award (Health Applications Section)	
[C44]	K. Yang, <u>A. Alaeddini</u> , Susan Q. Yu, A Probabilistic Approach for Modelling the Rate of No-Show in Hospital Appointments, <i>IERC 2010</i> , Cancun, Mexico.	2010
[C45]	X. Ma, <u>A. Alaeddini</u> , K. Yang, A. Murat, A Hybrid Optimization-Based Statistical Approach for Multivariate-Process-Control in Auto-Manufacturing Company, <i>IERC 2010</i> , Cancun.	2010
[C46]	<u>A.Alaeddini</u> , K. Yang, A. Murat, Adaptive Sequential Experimentation Methodology for Response Surface Optimization, <i>IERC 2010</i> , Cancun, Mexico.	2010
	Best Paper Award of Quality Control and Reliability Engineering Track	
[C47]	A. Alaeddini, K. Yang, Using Hidden Markov Models for the Design of Control Charts, <i>INFORMS</i> 2009, San Diego, CA.	2009
[C48]	A. Alaeddini, K. Yang, On the Use of Clustering as a General Change-point Estimator in Control Chart Applications, <i>IERC</i> 2009, Miami, FL.	2009
[C49]	A. Alaeddini, K. Yang, Using Adaptive Neuro-Fuzzy Systems to Monitor Regression relations, <i>IERC</i> 2009, Miami, FL.	2009
[C50]	<u>A. Alaeddini, K. Yang, Using Adaptive Neuro-Fuzzy Systems to Monitor Regression relations, Wayne State University Graduate Research Symposium, Detroit, MI.</u>	2008
Poster	Presentations	
[PP1]	S.H.A. Faruqui, <u>A. Alaeddini</u> , C. Jaramillo, M.J. Pugh, A Functional Model for Structure Learning and Parameter Estimation in Continuous Time Bayesian Network: An Application in Identifying Patterns of Multiple Chronic Conditions, INFORMS 2019, Seattle, WA	2019
[PP2]	S.H.A. Faruqui, <u>A. Alaeddini</u> , Learning and Summarizing Graphical Models using Eigen Analysis of Graph Laplacian: An Application in Analysis of Multiple Chronic Conditions, <i>IISE</i> 2019, Orlando, FL.	2019
[PP3]	S. Martinez, <u>A. Alaeddini</u> , A Sequential Weighted Laplacian-Regularized Optimal Design of Experiments for Response Surface Modeling of Expensive Tests: An Application in Linear-Elastic Fracture Mechanics, <i>IISE 2019</i> , Orlando, FL.	2019
	IISE 2019, Best Poster Award of Quality Control and Reliability Engineering Track	
[PP4]	A.Alaeddini, S.H.A. Faruqui, J. Wang, Using Machine Learning Methods for Dynamic Forecasting and Control of Type 2 Diabetes Using Mobile-Based Health Lifestyle Data, <i>DTM</i> 2018, North Bethesda, MD.	2018
[PP5]	R. Meka, <u>A. Alaeddini</u> , Laplacian Regularized Gaussian Process Method to Approximate Expensive Functions, <i>IISE 2018</i> , Orlando, FL.	2018
[PP6]	S. Shirinkam, <u>A. Alaeddini</u> , E. Gross, Identifying Clusters of In-Control and Out-Of-Control Parts in Manufacturing Processes using Numerical Algebraic Geometry and Nonparametric Regression, <i>SIAM Conference on Applied Algebraic Geometry</i> , Atlanta, GA.	2017
[PP7]	<u>A. Alaeddini</u> , Modelling the Accumulation of Comorbidities in Patients with Multiple Chronic Conditions, <i>Shared Vision Conference 2016</i> , San Antonio, TX.	2016
[PP8]	A. Motasemi, <u>A. Alaeddini</u> , A Spatiotemporal Outlier Detection Method for Image-based Process Monitoring, <i>Fresh Air Conference 2016</i> , San Antonio, TX.	2016
[PP9]	R. Nath, <u>A. Alaeddini</u> , Modelling the Progression of Multiple Chronic Diseases over Time using Multi-State Markov Models, <i>Fresh Air Conference 2016</i> , San Antonio, TX.	2016
[PP10]	J. Williams, <u>A. Alaeddini</u> , Applying Lean Principles to the Faculty Appointment Process at UTHSC. <i>Shared Vision Conference 2014</i> , San Antonio, TX.	2014

PAGE 10 /20 REV 6.2020

[PP11] A. Alaeddini, K. Yang, An Economic-Statistical Model for Decision Making about Production after Receiving the Out-of-Control Signal from the Control Chart, *INFORMS 2008*, Washington, DC.

Invited Lectures

[IL1]	<u>A. Alaeddini</u> , K. Krishnaiyer, Keep human Safe: Predicting Safety Incidents, <i>Intelligent Automation Week</i> , Austin, TX.	Fall 2018
[IL2]	A. Alaeddini, Mining Major Patterns of Disease Progression in Patients with Multiple Chronic Conditions, <i>Department of Mechanical Engineering, The University of Texas at Austin</i> , Austin, TX.	Fall 2017
[IL3]	A. Alaeddini, Modelling the Accumulation of Comorbidities in Patients with Multiple Chronic Conditions, <i>Department of Mechanical Engineering, The University of Texas at Austin</i> , Austin, TX.	Fall 2016
[IL4]	<u>A. Alaeddini, Active Learning Methodology for Design and Optimization of Complex Expensive Tests, Arnold Air force Base, Tullahoma, TN.</u>	Summer 2016
[IL5]	A. Alaeddini, What Clinicians and Non-Clinicians Need in Devices, Drug Discovery, and Data Analytics, <i>SALSI Academy Innovation Forum</i> , San Antonio, TX.	Fall 2015
[IL6]	A. Alaeddini, A Comprehensive Bayesian Framework for Prediction of Patient Readmission to Medial Centres, <i>Department of Mechanical Engineering, the University of Texas at Austin</i> , Austin, TX.	Fall 2014
[IL7]	A. Alaeddini, Applying Lean Principles to the Faculty Appointment Process at UTHSC, Center for Advanced Manufacturing and Lean Systems (CAMLS) Annual Meeting, The University of Texas at San Antonio, San Antonio, TX.	Fall 2014
[IL8]	A. Alaeddini, City of San Antonio Automated Waste Management System Warranty Claims Analysis, Center for Advanced Manufacturing and Lean Systems (CAMLS)Annual Meeting, The University of Texas at San Antonio, San Antonio, TX.	Fall 2014
[IL9]	A. Alaeddini, Prediction of Patients' Readmission to Medial Centres, Center for Advanced Manufacturing and Lean Systems (CAMLS) Annual Meeting, The University of Texas at San Antonio, San Antonio, TX.	Fall 2013
[IL10]	A. Alaeddini, Improving Decision Making Process in Healthcare, <i>Continuous Improvement Process (CIP) Meeting, The University of Texas at San Antonio</i> , San Antonio, TX.	Fall 2013
[IL11]	A. Alaeddini, Appointment Scheduling Under Patient No-shows: A Case Study in Veteran Affairs Hospital, <i>Continuous Improvement Process (CIP) Meeting, The University of Texas at San Antonio</i> , San Antonio, TX.	Spring 2013
[IL12]	$\underline{A.~Alaeddini}$, Industrial Engineering Applications of Artificial Neural Networks, $Azad$ $University$ - $Qazvin$, Iran.	Fall 2007
[IL13]	A. Alaeddini, New Challenges in Business Process Re-engineering, <i>Azad University-Qazvin</i> , Iran.	Spring 2007
[IL14]	A. Alaeddini, Expert Systems, and Artificial Intelligence applications in Industrial Engineering <i>Azad University-Qazvin</i> , Iran.	Spring 2006

Page 11 /20 Rev 6.2020

TEACHING ACTIVITIES

Teaching

The University of Texas at San Antonio, TXDepartment of Mechanical Engineering

2012-Present

	Course/Section	Type*	Prep	Enrol.	Response	Rate 1	Rate 2	
[T1]	ME 6543 Machine Learning and Data Analytics	GR		20				F2020
[T2]	ME 6543 Machine Learning and Data Analytics	GR	New course developed	31	27	4.19	4.26	F2019
[T3]	EGR 2323- Applied Engineering Analysis	LD		85	50	4.16	4.26	F2018
[T4]	ME 4723 – Reliability and Quality Control	UD		26	26	3.96	4.08	F2017
[T5]	ME 4723 – Reliability and Quality Control	UD		61	49	4	4	F2016
[T6]	ME 6973 Adv Reliability Methods	GR	Course Redesigned	5	5	4.4	4.8	S2016
[T7]	EGR 5213 Introduction to Modelling and Simulation	GR, UD		19	18	4.6	4.7	S2016
[T8]	ME 4723 – Reliability and Quality Control	UD		47	42	4.2	4.42	F2015
[T9]	ME 5013 - Advanced Data Analytics	GR	New course developed	14	13	4.6	4.5	S2015
[T10]	EGR 5213 Introduction to Modelling and Simulation	GR, UD		16	15	4.4	4.3	S2015
[T11]	ME 4723 – Reliability and Quality Control	UD		35	22	4.2	4.4	F2014
[T12]	EGR 5213 Introduction to Modelling and Simulation	GR, UD		27	27	3.93	4.11	S2014
[T13]	ME 3263 – Manufacturing Engineering	LD, UD		69	44	4.1	4.11	F2013
[T14]	EGR 5213 Introduction to Modelling and Simulation	GR, UD	New course developed	16	5	4	3.8	S2013
[T15]	ME 4723 Reliability and Quality Control	UD	Course Redesigned	11	4	4	4.3	F2012

^{*}GR: Graduate, UD: Upper Division Undergraduate, LD: Lower Division Undergraduate, Rate 1 (Course), Rate 2 (Instructor)

Azad University-Qazvin, Iran Instructor	2004-2008
[T15] Department of Mechanical and Industrial Engineering Management Information Systems (MIS)	Spring 2008
[T16] Department of Mechanical and Industrial Engineering Theory of Probability and Its Applications	Fall 2006 & Spring 2007

PAGE 12 /20 REV 6.2020

EL E. A	LAEDDINI	CURRICULUM VITA
[T17]	Department of Mechanical and Industrial Engineering Engineering Statistics	Fall 2007 & Spring 2008
[T18]	<u>Department of Computer Science and Information technology</u> Management Information Systems (MIS)	Fall 2007
[T19]	Department of Computer Science and Information technology Theory of Probability and Its Applications	Fall 2006
[T20]	Department of Computer Science and Information technology Information Technology Project Management	Spring 2005
[T21]	Department of Management and Accounting Applications of Computer in Accounting	Fall 2004
[T22]	Department of Management and Accounting Applications of Computer in the Management	Fall 2004
[T23]	Department of Management and Accounting Computer Programming	Fall 2004
'eachi	ng Assistantship	
•	State University Detroit, MI ment of Industrial and Systems Engineering	2004-2008
[TA1]	Decision Making and Risk Analysis	Spring 2011, 2009
[TA2]	Stochastic Processes	Fall 2009
[TA3]	Quality Engineering	Spring 2010
[TA4]	Design of Experiments	Fall 2009
[TA5]	Leadership and Project Management- EMMP Curriculum for Ford Motors Company Managers	2009-2010
	niversity of Science and Technology (IUST) ment of Industrial Engineering	2009-2010
[TA6]	Applications of Computer in Industrial Engineering	2005
	Committee Chair	
[D1]	Stanford Martinez Research Title: Active Learning Robust Kriging for Efficient Estimation of Expensive Spatio Temporal	Spring 2018-Now Status: PhD Student
[D2]	Mike Chi-Wen Research Title: Automated Lean Process Engineering using Smart and Connected Technologies	Fall 2017-Now Status: PhD Student
[D3]	Syed Hasib Akhter Faruqui Dissertation Title: Learning and Summarization of Complex and Large Datasets with Graphical Models: An Application in Multiple Chronic Condition Analysis	Spring 2017-Now Status: PhD Candidate
	Rajitha Meka	Fall 2016-Now

PAGE 13 /20 REV 6.2020

[D5] Abed Motasemi F2013- S2016
Dissertation Title: An Area-based Methodology for Monitoring Complex Quality Profiles

MS Committee Chair

[M1] Nonso Ovuegbe Spring 2020

[M1] Nonso Ovuegbe
Dissertation Title: Bayesian Optimization Approach to Dynamic-Window Path Planning
Status: Thesis

[M2] Eakeen Muhammad Haque Fall 2019
Dissertation Title: Markov Decision Processes for Inventory Modeling and Control Status: Graduated

[M3] Joel Sumner Spring 2019
Dissertation Title: Methods of Dimensionality Reduction in Survival Mechanical Engineering
Analysis: An Application in Prediction of Hospital Readmission Status: Graduated

[M4] Stanford Martinez
Dissertation Title: Sequential Weighted Laplacian Regularized Optimal
Design for Response Surface Modeling of Expensive Functions with
Outliers: An Application in Linear Elastic Fracture Mechanics

Fall 2018
Mechanical Engineering
Status: Graduated

[M5] Mehdi Chekameh
Dissertation Title: A Real-Time Prognostic Methodology Based on
Feature Extraction and Multivariate Control Charting for Improving
Reliability and Maintenance
Spring 2017
Adv. Manu. & Ent. Eng.
Status: Graduated

[M6] Syed Hasib Akhter Faruqui Fall 2016
Dissertation Title: A Temporal Bayesian Network for Modelling the Temporal Relation Among Multiple Chronic Conditions Status: Graduated

[M7] Adrien Tiokeng Kenyantio Fall 2016
Dissertation Title: An Image-Based Process Monitoring Scheme for Outlier Detection in Manufacturing Process Status: Graduated

[M8] Seung Hee Hong Spring 2016
Dissertation Title: A Weighted Logistic Regression Based on Similarity
Learning for Prediction of Readmission Event in Hospitals Status: Graduated

[M9] Phani Teja Fall 2015
Dissertation Title: A Regularized Higher-Order Markov Clustering Adv. Man. & Ent. Eng.
Algorithm for Monitoring Chronic Health Conditions Status: Graduated

[M10] Swarup Guha
Correlation Analysis of Multi-Stage Manufacturing Processes using
Nonlinear Partial Least Square Methods
Spring 2015
Adv. Man. & Ent. Eng.
Status: Graduated

[M10] Raoul Wansi Fall 2014
Dissertation Title: Identifying Control Charts Concurrent Patterns Adv. Man. & Ent. Eng.
Using Hidden Markov Models Status: Graduated

PhD and MS Committee Member

[CG1] Maria Aranguren
Stochastic Programming Models to Design Biomass Supply Chains for
Co-firing in Coal-fired Power Plants
Chair: Dr. Krystel Castillo

2020
Ph.D. - Mechanical Eng.
Status: Proposal Defense

Page 14 /20 Rev 6.2020

[GC2]	Dallen Andrew A Spatial Statistics Approach for Characterizing 2D Residual Stress Fields Chair: Dr. Hai-Chao Han	2020 Ph.D Mechanical Eng. Status: Graduated
[CG3]	Jordan Nielson Improving Wind Farm Preconstruction and Short Term Energy Production Forecasting Using Field Data, Large Eddy Simulation and Artificial, Neural Networks Chair: Dr. Kiran Bhaganagar	2019 Ph.D Mechanical Eng. Status: Graduated
[GC4]	Hamed Bouzary An Integrated Service Matching and Composition Approach for Cloud Manufacturing Platform Chair: Dr. Frank Chen	2018 Ph.D Mechanical Eng. Status : Proposal Defense
[CG5]	Zhaoxuan Li Control platform for commercial buildings using physics and statistical modeling Chair: Dr. Bing Dong	2018 Ph.D Mechanical Eng. Status: Graduated
[GC6]	Laura C. Domyancic Probabilistic Method for Incorporating Multiple Crack Nucleation Mechanisms into Initial Flaw Size Distributions Chair: Dr. Harry Millwatwer	2016 Ph.D Mechanical Eng. Status: Graduated
[CG7]	Carolina Quintana A Variance Reduction Sampling Method to Efficiently Estimate the Probability-Of-Failure for Damage-Tolerant Structures Chair: Dr. Harry Millwatwer	2016 Ph.D Mechanical Eng. Status : Graduated
[GC8]	Jose Garza Multicomplex Variable Differentiation in Probabilistic Analysis and Finite Element Models of Structural Dynamic Systems Chair: Dr. Harry Millwatwer	2014 Ph.D Mechanical Eng. Status : Graduated
[CG9]	Juan Ocampo Probabilistic Damage Tolerance for Small Airplanes Using a Linear-Elastic Crack Growth Fracture Mechanics Surrogate Model Chair: Dr. Harry Millwatwer	2013 Ph.D Mechanical Eng. Status: Graduated
[GC10]	Luvin De Leon Stochastic Programming Model Integrating Pyrolysis Byproducts In The Design of Bioenergy Supply Chains Chair: Dr. Krystel Castillo	2019 MS-Adv. Man. & Ent. Eng. Status: Graduated
[CG11]	Mario Chapa A cyberinfrastructure platform for the modeling and optimization of biomass logistics Chair: Dr. Krystel Castillo	2018 MS-Adv. Man. & Ent. Eng. Status : Graduated
[GC12]	Bhargavaram Kallam Implementation of Lean in Educational Institutions Chair: Dr. Frank Chen	2013 MS-Adv. Man. & Ent. Eng. Status : Graduated
[CG13]	Ramakrishna Arji Improvement project at Moore plastics Chair: Dr. Frank Chen	2012 MS-Adv. Man. & Ent. Eng. Status : Graduated
[GC14]	Mahendranath Desam Design and Implementation of Lean Manufacturing Flexible Work Cell Chair: Dr. Frank Chen	2012 MS-Adv. Man. & Ent. Eng. Status: Graduated

PAGE 15 /20 REV 6.2020

		COMMISSION VIII
[GC15]	SM Rahman Data-Driven Models Applied in Building Load Forecasting for Residential and Commercial Buildings Chair: Dr. Bing Dong	2015 MS in Mechanical Eng. Status: Graduated
[GC16]	Debashis Dey A Probabilistic Method to Diagnose Air Handling Unit (AHU) Faults Chair: Dr. Bing Dong	2015 MS in Mechanical Eng. Status: Graduated
MS Spe	cial Project Directed	
[MS1]	Monimul Haque	Fall 2020
[MS2]	Rajeev Srivastav Kondagari	Fall 2018
[MS3]	Christina Preddice	Spring 2015
SERVICE	E ACTIVITIES	
Univers	ity Service	
[U1]	Director of Advanced Data Engineering Lab Department of Mechanical Engineering	F2012- Present
[U2]	Co-Director of Flexible Manufacturing and Lean Systems Lab Department of Mechanical Engineering	F2012-Present
	Core member of Center for Advanced Manufacturing and Lean Systems Department of Mechanical Engineering	F2012- Present
[U4]	Associate Member of Center for Simulation Visualization&Realtime Predic Department of Mechanical Engineering	ction F2016- Present
	Research Member of Open Cloud Institute College of Engineering	F2016- Present
[U6]	Graduate Committee Member Department of Mechanical Engineering	S2013-Present
[U7]	Faculty Search Committee / Position: Computer Science Department of Computer Science	Fall 2018
	Scholarship Committee -Chair Department of Mechanical Engineering	Fall 2017
	Faculty Search Committee / Position: Biomedical Engineering Department of Biomedical Engineering	Fall 2017
[U10]	Faculty Search Committee / Position: Cloud Manufacturing Department of Mechanical Engineering	Fall 2015
	Ph.D. Research Evaluation Seminar Series Session Chair Department of Mechanical Engineering	Fall 2015
[U12]	Seminar Series Co-Organizer Department of Mechanical Engineering	S2013-F2013
Commu	nity Service	
Leade	ership Positions	
[S1]	President Quality Control & Reliability Engineering Division Institute for Industrial & Systems Engineers (IISE)	2020-21

PAGE 16 /20 REV 6.2020

[S2]	Board of Directors Quality Control & Reliability Engineering Division Institute for Industrial & Systems Engineers (IISE)	2017-19
[S3]	Co-chair Membership Growth Committee Quality Statistics, and Reliability (QSR) Section Institute for Operations Research and the Management Sciences (INFORMS)	2019&20
Confe	rences and symposiums	
[S5]	Track Chair Quality Control & Reliability Engineering (QCRE) Division IISE 2020, New Orleans, LA	2020
[S6]	Competition Chair Golomski Best Paper Award, Quality Control & Reliability Engineering (QCRE) Track, IISE 2020, New Orleans, LA	2020
[S7]	Track Chair Quality Control & Reliability Engineering (QCRE) Division, IISE 2019, Orlando, FL	2019
[S8]	Coordinator QCRE track, Student Interaction Session and Poster Competition, IISE 2019, Orlando, FL	2019
[S9]	Session Chair QCRE track, Disease Predictive Modeling, and Control, IISE 2019, Orlando, FL	2019
[S10]	Coordinator QRS Track, Panel Discussion on Publishing in JQT Journal: The Editors' Perspective, INFORMS 2018, Phoenix, AZ	2019
[S11]	Competition Referee Data Mining Section, INFORMS 2018, Phoenix, AZ	2018
[S12]	Session Chair QCRE track, Process Monitoring, and Control II, IISE 2018, Orlando, FL	2018
[S13]	Coordinator QRS Track, Panel Discussion on Publishing in QSR Journals: The Editors' Perspective, INFORMS 2017, Houston, TX	2017
[S14]	Track Chair Quality Control & Reliability Engineering (QCRE) Division, IISE 2017, Pittsburgh, PA	2017
[S15]	Competition Referee Quality Control & Reliability Engineering (QCRE) Track, IISE 2017, Pittsburgh, PA	2017
[S16]	Session Chair QSR track, Data-driven Analytical Models in Medical Decision Making, IISE 2017, Pittsburgh, PA	2017
[S17]	Competition Referee Data Mining Section, INFORMS 2016, Nashville, TN	2016
[S18]	Session Chair HSE track, Data Mining in Healthcare, INFORMS 2016, Nashville, TN	2016
[S19]	Session Chair HSE track, Healthcare Data Analytics, ISERC 2015, Nashville, TN	2015
[S20]	Panelist Big Data and Data Analytics Panel Discussion Session, SALSI Academy Innovation Forum, Texas Fresh AIR, San Antonio, TX	2015

PAGE 17 /20 REV 6.2020

[S21]	Organizing Committee of Conference 24th International Conference on Flexible Automation and Intelligent Manufacturing, San Antonio, Texas	2014
[S22]	Competition Referee Flexible Automation and Intelligent Manufacturing (FAIM) 2014, San Antonio, Texas	2014
[S23]	Session Chair HSE track, Readmission, and Patient Placement, INFORMS 2012, Phoenix, AZ	2012
[S24]	Session Chair QSR track, New Advancement on Design of Experiments, IERC 2011, Reno, NV	2011
[S25]	Competition Referee IISE 2011, Quality Control & Reliability Engineering (QCRE) Track, Reno, NV	2011
[S26]	Coordinator 4th Graduate Research Symposium, ISE Dept., Wayne State University, Detroit, MI	2011
[S27]	Competition Referee IISE 2010, Quality Control & Reliability Engineering (QCRE) Track, Cancun, Mexico (2010
[S28]	Session Chair QSR track, Recent Advancement in Statistical Process Monitoring. INFORMS 2009, San Diego, CA	2009
[S29]	Competition Referee IISE 2009, Quality Control & Reliability Engineering (QCRE) Track, Miami, FL	2009
[S30]	Panelist Quality and Reliability Engineering Panel Discussion Session, 5th International Industrial Engineering Conference, Tehran, Iran	2007
[S31]	Panelist Panel discussion Session, 1st National Value Engineering Conference, Tehran, Iran	2006
Acade	mic Journals	
[S32]	Associate Editor IISE Transactions on Healthcare Systems Engineering	2017-Present
[S33]	Associate Editor Journal of Applied Statistics	2019-Present
[S34]	Editorial Board Sharif Journal of Industrial Engineering & Management	2018- Present
[S35]	Editorial Board Current Development in Theory and Applications of Computer Science, Eng. and Tech.	2009-2013
[S36]	Editorial Board International Journal of Economics and Management Engineering (IJEME)	2011- Present
[S37]	Editorial Board International Journal of Operations Research and Information Systems (IJORIS)	2008-2010
[S38]	Reviewer Journal of Applied Statistics	Since 2019
[S39]	Reviewer Technometrics	Since 2018
[S40]	Reviewer IEEE Transactions on Automation Science and Engineering	Since 2018

PAGE 18 /20 REV 6.2020

[S41]	Reviewer IIE Transactions	Since 2014
[S42]	Reviewer Annals of Operations research (ANOR)	Since 2016
[S43]	Reviewer IIE Transactions on Healthcare Systems Engineering	Since 2014
[S44]	Reviewer Medical Care	Since 2012
[S45]	Reviewer Quality Engineering	Since 2017
[S46]	Reviewer Quality and Reliability Engineering International	Since 2014
[S47]	Reviewer ASME Journal of Manufacturing Science and Engineering	Since 2015
[S48]	Reviewer Quality Technology & Quantitative Management	Since 2017
[S49]	Reviewer Information Sciences	Since 2008
[S50]	Reviewer European Journal of Operational Research (EJOR)	Since 2013
[S51]	Reviewer Robotics and Computer Integrated Manufacturing	Since 2015
[S52]	Reviewer Applied Soft Computing	Since 2010
[S53]	Reviewer Transactions on Intelligent Systems and Technology	Since 2016
[S54]	Reviewer International Journal of Production Research (IJPR)	Since 2012
[S55]	Reviewer European Journal of Industrial Engineering (EJIE)	Since 2011
[S56]	Reviewer Engineering Applications of Artificial Intelligence	2012-2014
[S57]	Reviewer International Journal of Computational Intelligence Systems	2010-2011
[S58]	Reviewer Scientia Iranica	Since 2009
[S59]	Reviewer Amirkabir Journal of Science and Tech.	2007-2008
[S60]	Reviewer Annals of Internal Medicine	Since 2014
[S61]	Reviewer International Journal of Engineering (IJE)	2011-2012

PAGE 19 /20 REV 6.2020

MEMBERSHIPS

[E1]	American Society of Mechanical Engineers (ASME)	Since 2019
[E2]	Society for Industrial and Applied Mathematics (SIAM)	Since 2014
[E3]	Institute of Industrial Engineers (IIE)	Since 2008
[E4]	Institute for Operations Research and the Management Sciences (INFORMS)	Since 2008

PAGE **20** /20