

Dr. Víctor G. Tercero-Gómez

Researcher

Contact

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Research Interests

- Statistical Process Monitoring
- Nonparametric Statistics
- Change-point analysis
- Six Sigma

Education

Ph.D. in Systems and Engineering Management, Texas Tech University, Lubbock, TX, May 2011.
Dissertation: Nonparametric Change-Point Estimation for Observations Following a Random Walk with Drift (shared with ITESM). Advisor: Dr. Mario Beruvides

Ph.D. in Engineering Sciences, Tecnológico de Monterrey, Monterrey, NL, December 2011. Minor: Industrial engineering with a concentration in statistics. Advisor: Dr. Alberto A. Hernández-Luna

Master in Science of Quality and Productivity Systems, Tecnológico de Monterrey, Monterrey, NL, 2006. Minor: Statistical Engineering. Thesis: The Case Method in Six Sigma Training

Industrial and Systems Engineering, Universidad Thomas More, Managua, NIC, 2001. Magna Cum Laude

Certifications

- *Six Sigma Master Black* (2011). ITESM-BMGI international certification program.
- *Six Sigma Black Belt* (2007). ITESM-BMGI international certification program.
- *Basic university teaching* (2012). UANL training program.

Awards and Scholarships

- First place winner of Merl Baker Student Paper Contest (2010). 31th Annual ASEM National Conference, Rogers, Arkansas.
- Industrial Engineering Graduate Tuition Scholarship (2010). TTU, Lubbock, TX.
- Harrington Graduate Engineering School Scholarship (2009). TTU, Lubbock, TX.
- International travel expenses scholarship from CONACYT (2009). TTU, Lubbock, TX.

- Tuition Scholarship from CONACYT (2008). ITESM, Monterrey, NL.
- Scholarship for excellent academic performance (2008). ITESM, Monterrey, NL.
- Scholarship for excellent academic performance (2006). ITESM, Monterrey, NL.

Affiliations

- *National Research System*, Conacyt, México, 2013-2020.
- *Tau Beta Pi*: Engineering honor society, Texas Beta chapter at TTU, 2010-present.
- *Alpha Pi Mu*: Industrial engineering honor society, Texas chapter at TTU, 2010-present.
- *IIE*, 2012-2013.
- *Mexican Society of Operations Research*, 2012-2016.
- *American Society of Engineering Management*, TTU chapter, 2010-2011.

Professional Experience

2015-present **Professor**, *School of Engineering and Science*, ITESM, Monterrey, NL.

- Development of numerical methods in industrial engineering from the standpoint of data science. Master and Ph.D. thesis advisor. Teach courses on statistical engineering.

2014-2015 **Professor**, *Quality and Manufacturing Center*, ITESM, Monterrey, NL.

- Industry consultant. Six Sigma and statistical engineering instructor. Teach courses of statistical engineering. Master and Ph.D. thesis advisor. Perform research on statistical process control.

2011-2014 **Professor**, *School of Math and Physics*, UANL, San Nicolás, NL.

- Master and Ph.D. thesis advisor at the graduate program of applied mathematics. Teach courses in actuarial science and statistics. Perform research in applied statistics.

2007-2011 **Research assistant**, *Creativity, Inventive and Innovation research group*, ITESM, Monterrey, NL.

- Lean Six Sigma coach. Perform research in Lean Six Sigma.

2009-2010 **Research assistant**, *Department of Industrial Engineering*, TTU, Lubbock, TX.

- Develop research proposals to National Science Foundation (NSF).

2007 **Teaching assistant**, *Department of Industrial Engineering*, ITESM, Monterrey, NL.

- Teach courses in Design and Analysis of Experiments, and Statistical Quality Control.

2005-2006 **Junior consultant**, *Six Sigma Program*, ITESM, Monterrey, NL.

- Six Sigma project coach.

2002-2004 **Enterprise improvement advisor**, *ENITEL*, Managua, NIC.

- Business Project manager. Key process indicator analyst, organizational structure analyst. Quality assurance of TELCO CRM implementation. Strategic planning.

Language

Spanish (native), English (fluent), and French (medium to high).

Software

Minitab, Matlab, R, Cristal Ball, ARENA, Visual Studio C++, AMPL, CPLEX, Microsoft Office.

Research Groups

- Optimization and Data Science (formerly known as Industrial Engineering and Numerical Methods), ITESM (2015-present)
- Bi-Level Optimization and Applied Statistics, UANL (2011-presente).
- “Six Sigma Methodology” Project, CEMEX-ITESM (2011).
- Systems and Engineering Management Laboratory, Texas Tech University (2009-2010).
- Six Sigma research group, ITESM (2005-2011).
- Creativity, Inventive and Innovation research group, ITESM (2005-2011).

Courses I Taught

Graduate and undergraduate

Engineering Science Doctorate, ITESM

- Stochastic processes

Applied Mathematics graduate program (master and doctoral level), UANL

- Nonparametric Statistics
- Statistical Process Control
- Regression Analysis

Master in Quality and Productivity Systems, ITESM

- Design and Analysis of Experiments
- Forecasting and Regression Analysis

Industrial and System Engineering undergraduate program, ITESM

- Design and Analysis of Experiments
- Statistical Quality Control
- Statistical Engineering
- Logistic Systems

Actuarial undergraduate program, UANL

- Risk Theory
- Statistical Inference
- Probability I (univariate models)
- Probability II (multivariate models)
- Applied Statistics I (nonparametric statistics and lineal regression)

Industry training courses, ITESM

- Six Sigma
- Measurement System Analysis
- Statistical Process Control
- Design of Experiments

Industry training courses, UANL

- Statistical Process Control

Redesigned courses

Graduate program in Applied Mathematics, UANL

- Regression Analysis

Undergraduate program in Actuarial Science, UANL

- Risk Theory

Training courses

- Statistical Process Control
- Lean Six Sigma

Journals Where I Worked as a Reviewer

- Communications in Statistics–Simulation and Computation. ISSN: 0361-0918 (Print), 1532-4141 (Online)
- Physica A: Statistical Mechanics and its Applications. ISSN: 0378-4371
- Manufacturing Letters. ISSN: 2213-8463

Research

Industry Related Projects

(\$572,732.80 MXN) Development of technological capabilities for 3D reconstruction of large morphologies for fast inspection and image manipulation—third stage, **DEMAQ-PROINNOVA** grant, 2013

(\$8,700.00 MXN) Modeling and failure forecasting of an automotive product, **TAKATA**, 2013

(\$543,372.18 MXN) Development of technological capabilities for 3D reconstruction of large morphologies for fast inspection and image manipulation—second stage, **DEMAQ-PROINNOVA** grant, 2012

(\$161,500.00 MXN) Development of a dynamic model and statistical process control system in software development, **EISEI**, 2012

Basic Research Projects

- Structural change-point detection and estimation in a sequence of observations, **PROMEP**, SEP, 2013: F-PROMEP-38/Rev-03 SEP-23-005
- Change-point analysis in time series with application in statistical process control, **PROMEP**, SEP, 2011:- Promep/103.5/11/4330
- Change-point analysis in time series with application in statistical process control, **PAICYT**, UANL, 2011: CE 409-10 (complementary grant)

Research Stays

- Texas Tech University, 2015. Statistical process control, Lubbock, Texas, USA.
- Texas Tech University, 2014. Statistical process control, Lubbock, Texas, USA.
- Texas Tech University, 2013. Statistical process control, Lubbock, Texas, USA.
- Texas Tech University, 2012. Statistical process control, Lubbock, Texas, USA.

Journal Research Papers

Wendler, A., Beruvides, M. G., & **Tercero-Gómez, V. G.** (2025). Cautious parameter learning for a joint mean and variance monitoring CUSUM scheme with guaranteed in-control performance. *Quality Engineering*, 1-18.

Madrid-Alvarez, H. M., García-Díaz, J. C., & **Tercero-Gómez, V. G.** (2024). A CUSUM control chart for the Gamma distribution with cautious parameter learning. *Quality Engineering*, 1-23.

- Woodall, W. H., Saleh, N. A., Mahmoud, M. A., **Tercero-Gómez, V. G.**, & Knoth, S. (2024). Misguided Statistical Process Monitoring Approaches. In *Advanced Statistical Methods in Process Monitoring, Finance, and Environmental Science: Essays in Honour of Wolfgang Schmid* (pp. 211-220). Cham: Springer Nature Switzerland.
- Hernández-Zamudio, G., **Tercero-Gómez, V.**, Conover, W. J., Benavides-Vázquez, L., & Beruvides, M. (2024). On the power and robustness of phase I nonparametric Shewhart-type charts using sequential normal scores. *Journal of Industrial and Production Engineering*, 41(3), 276-305.
- Madrid-Alvarez, H. M., García-Díaz, J. C., & **Tercero-Gómez, V. G.** (2024). A CUSUM control chart for gamma distribution with guaranteed performance. *Quality and Reliability Engineering International*, 40(3), 1279-1301.
- Enck, D., Beruvides, M., **Tercero-Gómez, V. G.**, & Cordero-Franco, A. E. (2024). Addressing Concerns about Single Path Analysis in Business Cycle Turning Points: The Case of Learning Vector Quantization. *Mathematics*, 12(5), 678.
- Phan, L. N., Beruvides, M. G., & **Tercero-Gómez, V. G.** (2024). Statistical Analysis of Minsky's Financial Instability Hypothesis for the 1945–2023 Era. *Journal of Risk and Financial Management*, 17(1), 32.
- Pérez-Benítez, B. E., **Tercero-Gómez, V. G.**, & Khakifirooz, M. (2023). A review on statistical process control in healthcare: data-driven monitoring schemes. *IEEE Access*, 11, 56248-56272.
- Díaz Pulido, A. J., Cordero Franco, A. E., & **Tercero Gómez, V. G.** (2023). A distribution-free control chart for joint monitoring of location and scale in finite horizon productions. *Computational Statistics*, 1-19.
- Castillo, J. M., **Gómez, V. G. T.**, & Maneses, V. M. C. (2023). Stepwise Deconvolution of Thermoluminescence Glow Curve. *Química Hoy*, 12(01), 16-22.
- Knoth, S., Saleh, N. A., Mahmoud, M. A., Woodall, W. H., & **Tercero-Gómez, V. G.** (2023). A critique of a variety of “memory-based” process monitoring methods. *Journal of Quality Technology*, 55(1), 18-42.
- Knoth, S., Mahmoud, M. A., Saleh, N. A., **Tercero-Gómez, V. G.**, & Woodall, W. H. (2022). Letter on statistical process monitoring research: Misdirections and recommendations. *Quality & Reliability Engineering International*, 38(4).
- Parvin, A. J., Beruvides, M. G., & **Tercero-Gómez, V. G.** (2022). In Situ Technological Innovation Diffusion Rate Accuracy Assessment. *Systems*, 10(2), 25.
- Merlo, J., Cordero-Franco, A. E., & **Tercero-Gómez, V. G.** (2022). Nonparametric Multivariate Processes Monitoring with Guaranteed In-Control Performance for Changes in Location. *Computers & Industrial Engineering*, 107940.
- Knoth, S., Woodall, W. H., & **Tercero-Gómez, V. G.** (2022). The case against generally weighted moving average (GWMA) control charts. *Quality Engineering*, 34(1), 75-81.
- Knoth, S., **Tercero-Gómez, V. G.**, Khakifirooz, M., & Woodall, W. H. (2021). The impracticality of homogeneously weighted moving average and progressive mean control chart approaches. *Quality and Reliability Engineering International*, 37(8), 3779-3794.
- Enck, D., Beruvides, M., **Tercero-Gómez, V. G.**, & Cordero-Franco, A. E. (2021). Using statistical process monitoring to identify us business cycle change points and turning points. *Applied Economics*, 53(46), 5319-5336.
- Khakifirooz, M., **Tercero-Gómez, V. G.**, & Woodall, W. H. (2021). The role of the normal distribution in statistical process monitoring. *Quality Engineering*, 33(3), 497-510.
- Monroe, T., Beruvides, M., & **Tercero-Gómez, V.** (2020). Quantifying Risk Perception: The Entropy Decision Risk Model Utility (EDRM-U). *Systems*, 8(4), 51.
- Monroe, T., Beruvides, M., & **Tercero-Gómez, V.** (2020). Derivation and Application of the Subjective–Objective Probability Relationship from Entropy: The Entropy Decision Risk Model (EDRM). *Systems*,

8(4), 46.

Barraza-Barraza, D., **Tercero, V.**, Cordero, E., & Beruvides, M. (2020). Estimation of Remaining Useful Life Based on Detection of Explosive Changes: An Analysis of Bearing Vibration. *International Journal of Prognostics and Health Management*, 28.

Tercero-Gómez, V., Aguilar-Lleyda, V., Cordero-Franco, A., & Conover, W. (2020). A distribution-free CUSUM chart for joint monitoring of location and scale based on the combination of Wilcoxon and Mood statistics. *Quality and Reliability Engineering International*, 36(4), 1422-1453.

Elizondo-Noriega, A., Ponce-Jaramillo, I. E., Avilés-Sacoto, S. V., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, Tiruvengadam, N., & Beruvides, M. G. (2019). A nonparametric economic index to measure the collective effort of national-level economic activities directed towards greater efficiency. *Cogent Economics & Finance*, 7(1), 1695997.

Garza-Venegas, J. A., **Tercero-Gómez, V. G.**, Lee Ho, L., Castagliola, P., & Celano, G. (2018). Effect of autocorrelation estimators on the performance of the X control chart. *Journal of Statistical Computation and Simulation*, 88(13), 2612-2630.

Conover, W. J., Guerrero-Serrano, A. J., & **Tercero-Gómez, V. G.** (2018). An update on 'a comparative study of tests for homogeneity of variance'. *Journal of Statistical Computation and Simulation*, 88(8), 1454-1469.

Conover, W. J., **Tercero-Gómez, V. G.**, & Cordero-Franco, A. E. (2018). A Look at Sequential Normal Scores and How They Apply to Financial Data Analysis. *Journal of Applied Mathematics and Physics*, 6(4), 787-816.

Villanueva-Guerra, E. C., **Tercero-Gómez, V. G.**, Cordero-Franco, A. E., & Conover, W. J. (2017). A control chart for variance based on squared ranks. *Journal of Statistical Computation and Simulation*, 87(18), 3537-3562.

Conover, W. J., **Tercero-Gómez, V. G.**, & Cordero-Franco, A. E. (2017). The sequential normal scores transformation. *Sequential Analysis*, 36(3), 397-414.

Garza-Venegas, J., **Tercero-Gomez, V.**, Cordero Franco, A., Temblador-Pérez, M., & Beruvides, M. (2017). An evaluation of change-point estimators for a sequence of normal observations with unknown parameters. *Communications in Statistics-Simulation and Computation*, 46(6), 4297-4317.

Barraza-Barraza, D., **Tercero-Gómez, V. G.**, Beruvides, M. G., & Limón-Robles, J. (2017). An adaptive ARX model to estimate the RUL of aluminum plates based on its crack growth. *Mechanical Systems and Signal Processing*, 82, 519-536.

Morales, J., **Tercero, V.**, Camacho, F., Cordero, E., López, L., & Almaguer, F. (2016). Trend and Fractality Assessment of Mexico's Stock Exchange. *arXiv preprint arXiv:1411.3399*. (just accepted in *Applied Mathematics and Computation*)

Garza-Venegas, J., **Tercero-Gomez, V.**, Cordero Franco, A., Temblador-Pérez, M., & Beruvides, M. (2016). An Evaluation of Change-Point Estimators for a Sequence of Normal Observations with Unknown Parameters. *Communications in Statistics-Simulation and Computation*, (just-accepted), 00-00.

Salazar-Alvarez, M. I., Temblador-Pérez, C., Conover, W. J., **Tercero-Gómez, V. G.**, Cordero-Franco, A. E., & Beruvides, M. G. (2016). Regressing sample quantiles to perform nonparametric capability analysis. *The International Journal of Advanced Manufacturing Technology*, 1-10.

Benavides-Bravo, F. G., Almaguer, F., Soto-Villalobos, R., **Tercero-Gómez, V.**, & Morales-Castillo, J. (2015). Clustering of Rainfall Stations in RH-24 Mexico Region Using the Hurst Exponent in Semivariograms. *Mathematical Problems in Engineering*, 2015.

Calvo, J., **Tercero, V.**, Guillermo, J., Martínez, I. (2014), A Systemic Analysis on Professional Certification Rates: The Case of a Six Sigma Training Program. *Engineering Management Journal*. ISSN: 1042-9247

Tercero, V., Cordero, A., Pérez-Blanco, A., Hernández-Luna, A. A Self-Starting CUSUM Chart combined with a Maximum Likelihood Estimator for the Time of a Detected Shift in the Process Mean. *Quality and Reliability Engineering International*. ONLINE ISSN: 1099-1638 PRINT ISSN: 0748-8017

Tercero, V., Ramírez-Galindo, J., Cordero-Franco, A., Smith, M., Beruvides, M. (2012). Modified Tukey's Control Chart. *Communications in Statistics – Simulation and Computation*, 41(9), 1566–1579. doi:10.1080/03610918.2011.606951. ISSN: 0361-0918 (PRINT), 1532-4141 (ONLINE)

Tercero, V., Temblador, M.C., Beruvides, M. Hernández-Luna, A. (2012). Nonparametric Estimator for the Time of a Step Change in the Trend of Random Walk Models with Drift. *Quality and Reliability Engineering International*. doi:10.1002/qre.1290. ONLINE ISSN: 1099-1638 PRINT ISSN: 0748-8017

Non-Peer Review Articles

Conover, W. J., **Tercero, V. G.**, & Cordero-Franco, A. E. (2019). An Approach to Statistical Process Control that is New, Nonparametric, Simple, and Powerful. arXiv preprint arXiv:1901.04443.

Salazar-Alvarez, M. I., **Tercero-Gómez, V. G.**, Cordero-Franco, A. E., Conover, W. J., & Beruvides, M. G. (2017). A Quantile Estimate Based on Local Curve Fitting. arXiv preprint arXiv:1706.05128.

Technical Reports

Development of technological capabilities for 3D reconstruction of large morphologies for fast inspection and image manipulation—third stage, DEMAQ-PROINNOVA grant, 2013, Dr. María Aracelia Alcorta García, Dr. Alvaro Eduardo Cordero Franco, **Dr. Víctor Gustavo Tercero Gómez**, Pags. 1-26.

Modelación y pronóstico de las quejas por fallas en un producto automotriz, TAKATA, 2013, **Dr. Víctor Gustavo Tercero Gómez**, Dr. Alvaro Eduardo Cordero Franco, Pags. 1-12.

Development of technological capabilities for 3D reconstruction of large morphologies for fast inspection and image manipulation—second stage, DEMAQ-PROINNOVA grant, 2012, Dr. María Aracelia Alcorta García, Dr. Álvaro Eduardo Cordero Franco, **Dr. Víctor Gustavo Tercero Gómez**, Pags. 1-26.

Development of a dynamic model and statistical process control system in software development, EISEI, 2012, **Dr. Víctor Gustavo Tercero Gómez**, Dra. María Aracelia Alcorta García, Pags. 1-146.

Conference Papers

Díaz Pulido, A. J., Cordero Franco, A. E., & **Tercero Gómez, V. G.** (2024, February). Multivariate Control Chart with Guaranteed IC performance and Cautious Parameter Learning I. In XXIV SIMPOSIO INTERNACIONAL DE MÉTODOS MATEMÁTICOS APLICADOS A LAS CIENCIAS (p. 51). Universidad de Costa Rica.

Wendler, A., Beruvides, M. G., & **Tercero-Gomez, V.** (2024). Design of a Self-Starting Combined Shewhart-CUSUM Chart for Short Run Scenarios. In IISE Annual Conference. Proceedings (pp. 1-6). Institute of Industrial and Systems Engineers (IISE).

Zamudio, G. H., **Gomez, V. G. T.**, & Beruvides, M. G. (2023, July). Sensitizing rules for change point detection in phase i analysis with nonparametric Shewhart-type control charts. In 2023 Portland International Conference on Management of Engineering and Technology (PICMET) (pp. 1-7). IEEE.

Zamudio, G. H., Beruvides, M., & **Tercero-Gomez, V.** (2023, May). Evaluation of economic hyperinflation through the lens of statistical process methodologies: A preliminary analysis and discussion. In IISE Annual Conference and Expo. IISE.

Wendler, A., & **Tercero-Gómez, V.G.**, (2021). Self-starting cumulative sum charts: a systemic literature review of application and research directions. In Proceedings of the International Annual Conference of the American Society for Engineering Management. (pp. 1-10). American Society for Engineering Management (ASEM).

- Elizondo-Noriega, A., Tiruvengadam, N., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, & Beruvides, M. G. (2019, August). A System Dynamics-Based Technological Archetype for the Economics of Leasing Capital-Intensive Industrial Robots. In 2019 Portland International Conference on Management of Engineering and Technology (PICMET) (pp. 1-9). IEEE.
- Elizondo-Noriega, A., Tiruvengadam, N., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, & Beruvides, M. G. (2019, August). A Protocol for Replicating Systems Dynamics-Based Simulation Models. In 2019 Portland International Conference on Management of Engineering and Technology (PICMET) (pp. 1-21). IEEE.
- Elizondo-Noriega, A., Tiruvengadam, N., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, & Beruvides, M. G. (2019, August). A System Dynamics-Based Technological Archetype to Simulate the Economic Effects of a Six Sigma Project. In 2019 Portland International Conference on Management of Engineering and Technology (PICMET) (pp. 1-8). IEEE.
- Elizondo-Noriega, A., Tiruvengadam, N., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, & Beruvides, M. G. (2019, August). System Dynamics modeling of the effects of the decision to purchase industrial robots on a manufacturing organization. In 2019 Portland International Conference on Management of Engineering and Technology (PICMET) (pp. 1-9). IEEE.
- Elizondo-Noriega, A., Beruvides, M. G., Tiruvengadam, P. N., Güemes-Castorena, D., & **Tercero-Gómez, V. G.** (2019). An analysis of the state-of-the-art on calibration techniques for replicates of system dynamics models. In Proceedings of the International Annual Conference of the American Society for Engineering Management; Huntsville.
- Elizondo-Noriega, A., Tiruvengadam, N., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, Beruvides, M.G. Identifying the need for an indicator to quantify an economic system's efforts to be efficient: A State-of-the-Art Analysis. In Proceedings of the 2019 IISE Annual Conference (pp. 1-6). H.E. Romeijn, A. Schaefer, R. Thomas, eds.
- Elizondo-Noriega, A., Tiruvengadam, N., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, Beruvides, M.G. Classification of R&D activities in industrial environments. In Proceedings of the 2019 IISE Annual Conference (pp. 1-6). H.E. Romeijn, A. Schaefer, R. Thomas, eds.
- Loera, I., **Tercero, V.**, Martínez, D. Six Sigma project recognition and prioritization. In Proceedings of the 2019 IISE Annual Conference (pp. 1-6). H.E. Romeijn, A. Schaefer, R. Thomas, eds.
- Benavides, L., **Tercero-Gomez, V.**, Cordero-Franco, A., Meza, L., Hernández, G., Conover, J. The effect of ties in nonparametric statistical process monitoring: A discussion of the problem. In Proceedings of the 2019 IISE Annual Conference (pp. 1-6). H.E. Romeijn, A. Schaefer, R. Thomas, eds.
- Elizondo-Noriega, A., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, & Beruvides, M. G. (2018). The state of the art in system dynamics modeling of cost of quality. In Proceedings of the American Society for Engineering Management 2018 International Annual Conference.
- Enck, D., Beruvides, M., **Tercero-Gomez, V.**, Cordero-Franco, L., (2018). Business cycles: a statistical process control perspective. In Proceedings of the International Annual Conference of the American Society for Engineering Management. (pp. 1-9). American Society for Engineering Management (ASEM).
- Garza-Venegas, J., **Tercero-Gómez, G.**, Barraza-Barraza, D., & Castagliola, P. (2018). Performance of Self-Starting Control Charts for Autocorrelated Data. IISE Annual Conference, Aug 2018, Orlando, United States. pp.1043-1048.
- Villanueva-Guerra, C., **Tercero-Gómez, G.**, Beruvides, M. G. & Cordero-Franco, A. (2018). A Descriptive, Comparative and Cross-correlational Analysis Between the US and Mexican Stock Markets. IISE Annual Conference, Aug 2018, Orlando, United States. pp.1043-1048.
- Elizondo-Noriega, A., Güemes-Castorena, D., **Tercero-Gómez, V. G.**, & Beruvides, M. G. (2018). Technological impact on defect reduction: A quality management perspective. In Proceedings of the 2018 IISE Annual Conference.

- Barraza-Barraza, D., Tercero-Gómez, V. G., Beruvides, M. G., & Cordero-Franco, A. E. (2017). Remarks on estimating the remaining useful life of an asset in the presence of condition variable changes. In IIE Annual Conference. Proceedings. Institute of Industrial and Systems Engineers (IISE).
- Salazar, M, **Tercero, V**, Cordero-Franco, A. (2017). Regression Approach to Estimating Control Limits for Individual. Remarks on estimating the remaining useful life of an asset in the presence of condition variable changes. In IIE Annual Conference. Proceedings (pp. 2159-2164). Institute of Industrial and Systems Engineers (IISE).
- Cordero-Franco, A; Garza-Venegas, J; **Tercero Gómez, V.** (2014). Robust change-point estimator for series of normal observations. Proceedings of the 2014 Industrial and Systems Engineering Research Conference Y. Guan and H. Liao, eds.
- Tercero Gómez, V.**; Cordero-Franco, A; Alvarado-Puente, A; Temblador-Pérez, M. (2014). Robust estimation of variance using Modified Tukey's Control Chart. Proceedings of the 2014 Industrial and Systems Engineering Research Conference Y. Guan and H. Liao, eds.
- Tercero Gómez, V.**; Cordero-Franco, A; Palacios-Pierluissi, J; and Tenorio-Rodríguez, G.(2014). A hierarchical change point model to estimate the moment of a change in series of independent normal observations. Proceedings of the 2014 Industrial and Systems Engineering Research Conference Y. Guan and H. Liao, eds.
- Salazar-Alvarez, M; Tercero Gómez, V.; Temblador-Pérez, M; Cordero-Franco, A.; and Conover, W. (2014). Nonparametric analysis of interactions: a review and gap analysis. Proceedings of the 2014 Industrial and Systems Engineering Research Conference Y. Guan and H. Liao, eds.
- Guadalupe, L., **Tercero, V.**, Cordero-Franco, A., Beruvides, M. (2013). Monitoring Dynamic Systems: Theoretical Development of the Self-Starting Cusum for Non-Zero Slope Behavior. 34nd Annual ASEM National Conference, Minneapolis, Minnesota.
- Guadalupe, L., **Tercero, V.**, Cordero-Franco, A., Beruvides, M. (2013). Monitoring of Non-Zero Slope Systems: A Review of the Tools Available. 34nd Annual ASEM National Conference, Minneapolis, Minnesota.
- Tercero, V.**, Villanueva, E., Cordero-Franco, A. (2013). Optimal Configuration of Modified Tukey's Control Chart. IEE 63nd Annual Conference & Expo, San Juan, Puerto Rico.
- Tercero, V.**, Garza, J., Cordero-Franco, A. (2013). Likelihood Ratio Test for a Change-Point in the Mean of Independent Normal Observations. IEE 63nd Annual Conference & Expo, San Juan, Puerto Rico.
- Pérez, A., Cordero-Franco, A., **Tercero, V.** (2013). Change Point Estimation After the Signal of a Gamma Control Chart. IEE 63nd Annual Conference & Expo, San Juan, Puerto Rico.
- Tercero, V.**, Cordero-Franco, A., Martínez-Salazar, I., Ramírez Galindo, J. (2013). Gráfica de control de varianza y estimación del punto de cambio basándose en la función del valor-p de la prueba F. 2do Foro de Divulgación Científica y Tecnológica de la Facultad de la Facultad de Ciencias Físico Matemáticas, UANL, San Nicolás de los Garza, Nuevo León, México.
- Garza, V., Cordero-Franco, A., Camacho, F., **Tercero, V.** (2012). Estimación de Múltiples puntos de Cambio en Series de Tiempo con Distribución Normal Utilizando un Algoritmo Heurístico de Construcción. XVI CLAIO/XLIV SBPO, Río de Janeiro, Brasil.
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