CURRICULUM VITAE

GRISSELLE CENTENO, PH.D.

DAVID P. AND CONSTANCE W. LYONS ENDOWED CHAIR IN LOGISTICS

PROFESSOR OF SUPPLY CHAIN AND ANALYTICS

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EDUCATION

University of Central Florida, Orlando, FL

Ph.D. in Industrial Engineering 3.9/4.0 August, 1998

Dissertation: "Parallel Machine Scheduling with Specified Release Dates, Due Dates, and Machine Eligibility Restrictions"

Integrates concepts in optimization, production and inventory control, information systems and applications in Semiconductor Manufacturing

Major Area: Operations Research

M.S. in Industrial Engineering May 1994

Thesis: "A Methodology for the Selection of Critical Processes and Alternatives in a Benchmarking Project"

Integrates concepts in multicriteria decision making, analytic hierarchy process and benchmarking.

Major Areas: Operations Research and Quality Control

University of Puerto Rico, Mayagüez, PR

B.S. in Industrial Engineering, Magna Cum Laude May 1992

PROFESSIONAL EXPERIENCE

Academic Positions

Florida Southern College August 2022 - present

Barney Barnett School of Business and Free Enterprise

David P. and Constance W. Lyons Endowed Chair in Logistics

Professor of Supply Chain and Analytics

Florida Polytechnic University Jan 2019 – August 2022

Professor, Data Science and Business Analytics

Director, Health Systems Engineering (HSE)

Accomplishments:

- *HSE Leadership* – recruited and grew center's organizational leadership, advisory board and staff to run the center.
- *HSE Strategy* – defined HSE Center's mission, vision, and goals in alignment with institutional mission goals.
- *HSE Faculty and Research* – identified and recruited 11 affiliated faculty with overlapping interests and expertise in HSE.
- *HSE Network of Collaborators* – identified healthcare industrial partners for project sponsorship and research collaboration with students and faculty.
- *HSE Extramural Funding* – engaged in research efforts and secured competitive (Federal) research funding ($ 600K / 4yrs.)
- *HSE concentration and certificate* – created curriculum and acquired Board of Trustees approval to launch a concentration and certificate in Health Systems Engineering.

University of South Florida August 2000 – Dec 2018

Associate Faculty, Morsani College of Medicine - (Joint appointment since Summer 2015)

Health Systems Engineering Scholarly Concentration Director, (Since 2017)

Associate Professor, Industrial and Management Systems Engineering (Since 2007)

Associate Faculty member of the Center for Urban Transportation Research Since 2003

Previous Positions: Assistant Professor (2001 - 2007); Visiting Assistant Professor (2000 - 2001)

Responsibilities:

- Conduct research on Applied Operations Research and related areas
- Teach graduate level courses in Operations Research, Multivariate Optimization, Engineering Statistics and Graduate Research Seminar on Special Optimization Topics including Transportation applications, Operations and Healthcare, Advanced Production Control and Engineering the Supply Chain
- Teach undergraduate level courses in Operations Research, Engineering Economics, Facilities Design, Engineering Statistics, Work Analysis and designated laboratory, Production Control
- Serve as the IE Coordinator for the Research Experience for Undergraduates Program

University of Central Florida, Orlando, FL August 1997 – July 2000

Positions: Adjunct Instructor (1997-1999); Post-Doctoral Researcher (1999-2000)

Responsibilities:

- Teach graduate level course in Operations Research, and Advanced Engineering Economic Analysis; and undergraduate courses in Probability and Statistics for Engineers, Work Measurement, Engineering Economics, and Operations Research.
- Serve as a Post-Doctoral Systems Analyst for UCF21: "University's Customer Focus for the 21st Century," Operational Excellence Initiative, Phase 2.

  Project 1: Conducted a workload analysis, risk analysis and task analysis for the Registrar's Office. Developed a staffing model for the University's Registrar.

  Project 2: Develop a system for the Office of Graduate Studies that helps the Associate Vice President of Graduate Studies to accurately estimate and forecast future enrollments reported to the Board of Regents (BOR).

Industrial Experience and Consulting

Walt Disney World Resort, Orlando, FL June 2006- November 2020

Position: Senior Operations Research Consultant

Provide support to the Industrial Engineering and Experience Insight team on projects related to optimization and process improvement across the various lines of business within the Corporation.

Major Projects:

- Developed mathematical models to schedule entertainment casts to shows and parades considering skill levels and union specifications.
- Develop metrics to quantify impact of mathematical models compared to actual approaches to schedule bus drivers to shifts.
- Support the development of wait time models and decision tools for WDW Preferred Attractions.
- Support the development of the lodging assignments for the task force and business trips for training of new cast for the new resorts and cruise line.

Lucent Technologies, Orlando, FL August 1992 – July 1998

Position: *Graduate Student Researcher Fellow*

Research position while pursing M.S. and Ph.D. in Industrial Engineering.

Major Accomplishments:

- Developed a heuristic, which reduced average lot completion time by 50% and the number of lots in queue by 70% in the product test area. – based work for PhD dissertation.
- Implemented a decision support tool at wafer probe to assign jobs to resources over time. The goal of the project was to optimize workflow based on current team priorities, which includes optimizing for cycle time, capacity, or customer service. The system generates

reports on demand and specifies where and when jobs must be tested. It also automatically generates a summary of projected cycle time and queue time.
- Designed production area and facilities considering workflow, material handling, workstations, and availability for future expansions.

Abbott Laboratories, Barceloneta, PR — Summer 1992

Position: Industrial Engineer

Major Accomplishments:

- Designed macro and micro layout of the Diagnostic Division Area applying human factors and ergonomics
- Conducted cost benefit analyses of designed alternatives

Baxter Healthcare, Bentley Division, Añasco, PR — August 1991 - May 1992

Position: Assistant Engineer

Major Accomplishments:

- Implemented a Kanban system -- introduced just-in-time philosophy
- Designed a material handling system from warehouse to production area

SmithKline Beecham Pharmaceuticals -- Cidra, PR — Summer 1991

Position: Summer Student

Major Accomplishments:

- Designed and documented a system for equipment changeovers in the Packing Department
- Conducted an analysis of the product flow and made recommendations for improvement

HONORS AND RECOGNITIONS

- IISE's Fellow Award – Inducted May 2022
- Featured for "What's your story" ISE Magazine, Nov 2021
- Featured (Cover page) Diverse, Issues in Higher Education, July 2021
- ABLAZE excellence in research award recipient, Florida Polytechnic University, 2020
- ELATES fellow, 2019-2020
- Advanced Manufacturing Workshop: Preparing the Next Generation of Researchers, Invited participant– Iowa State University, NSF sponsored, October 2017
- 2016 Symposium: 21st Century Mindsets & Strategies for Career Advancement, University of California, Berkeley - Selected Participant,
- Frontiers of Engineering Education Symposium fellow, 2015 – National Academy of Engineering
- Faculty Research Award from Women Leadership and Philanthropy- WLP 2013 recipient
- Women's International Research Engineering Summit, Invited participant, NSF-Advance sponsored, Barcelona, Spain, 2009
- IIE Outstanding Young IE in Education Award, (runner up) 2006
- Who is Who in Engineering Education, 2006
- Outstanding Teaching Award 2004/2005 – USF and Engineering
- PASI Award – Transportation Science Participant, 2005
- Who's Who in America, 2004

PROFESSIONAL AFFILIATIONS

- Institute of Industrial and Systems Engineers (IISE) — member since 1989
- Alpha Pi Mu, Industrial Engineering Honor Society — inducted 1990
- Tau Beta Pi, Engineering Honor Society — inducted 1991
- Institute for Operations Research and the Management Sciences — member since 1995
- Decision Sciences Institute (DSI) — member since 1996
- Society of Hispanic and Professional Engineers (SHPE) — member since 2001

PATENTS, GRANTS AND RESEARCH FUNDING

Patent:

Title: Supervised Learning Methods for the Prediction of Tumor Radiosensitivity to Preoperative Radiochemotherapy. Serial Number 62/049,431 Filed: September 12, 2019

Current Grants:

G. Centeno (PI), K. Reeves, M. Hughes Miller, E. Englehardt, Standard Collaborative: "Enhancing Internships with Professional Ethics Training: Cultivating an Ethical Engineer Identity", National Science Foundation Jan 2020-Dec 2023, $600,000

Other Funded and completed grants/projects:

R. Sanchez-Arias(PI) and G. Centeno (Co-PI), Enhancing simulation and testing of emergency medical service vehicles in AVs settings, Advanced Mobility Institute 2020-2021 Seed Award Program, Completed 04/20-04/21, $20,687

T. Allen (PI), Broadening Participation of STEM Faculty through Work Design, National Science Foundation, 2015-2020, $380,000

Centeno Grisselle (PI), "Increasing Diversity in Engineering Education through Healthcare Applications", National Science Foundation, 2013-2015, $199,999.

Centeno Grisselle (PI), "Case Studies Development as Constructivist Pedagogy for Teaching Work Analysis and Design", National Science Foundation, $150,000

T. Das (PI), Okogbaa G., G. Centeno, "USF: Students, Teachers and Resources in the Sciences (STARS II), An NSF GK-12" National Science Foundation, $1,800,000

Centeno Grisselle (PI), "Capacity Assessment and Planning Tool: A Decision Support Model", funded by Raymond James & Associates Inc., $5,000

Centeno Grisselle (PI) and Rajesh Chaudhary, "Repair Time Standards for Transit Vehicles- Phase 4", Funded by Florida Department of Transportation, $120,000

Rajesh Chaudhary (PI) and Grisselle Centeno (Co-PI) "Maintenance Management Software for Public Transit Industry in Florida", Funded by NCTR, $75,000

Centeno Grisselle (PI) and Rajesh Chaudhary, "Repair Time Standards for Transit Vehicles- Phase 3", Funded by Florida Department of Transportation, $107,000

Steve Saddow (PI), Andrew Hoff, John Wolan and Grisselle Centeno(Co-PI) "Novel Silicon Carbide Technology Development", Funded by ONR, $740,000

Centeno, Grisselle (PI), "Queuing Analysis of Emergency Departments Flow and Impact on Nursing Resource Allocation" Funded by USF College of Engineering and College of Nursing, $15,000

Centeno Grisselle (PI), Greg Weisenborn, Mary Matz, "Productivity Outcome Metrics in Patient Handling & Movement" Funded by Patient Safety Center, $12,000

Centeno Grisselle (PI) , Rajesh Chaudhary, "Repair Time Standards for Transit Vehicles" Phase 3, Project funded by Florida Department of Transportation, $107,000

Yalcin Ali (PI), Centeno Grisselle (Co-PI),and Jose Zayas- Castro, "Simulation, Analysis and Re-Design of Security Checkpoints at Major Commercial Airports" Funded by UCITSS, $205,000

Okogbaa G. (PI), Grisselle Centeno (Co-PI), T. Das, A. Kumar, B. Townsend "University of South Florida: Students, Teachers, And Resources in the Sciences (STARS)" an NSF GK-12 Fellows Project. Award No. DGE-0139348, $1,530,000

Hagen Larry (PI), Centeno Grisselle (Co-PI) "A Toolbox for Reducing Queues at Freeway Off-Ramps" funded by Florida Department of Transportation, $120,000

Centeno Grisselle (PI) "Innovative Capacity and Pricing Models for Parking Services" funded by USF, New Researchers Grant, $6,238

Moreno Wilfrido and Grisselle Centeno (Co-PI), "Development of a Non-destructive Methodology and Apparatus using Ultrasonic Diagnostics for CMP Pad" unsolicited proposal to Lucent Technologies, $296,322

Centeno Grisselle (PI) and Ed Bart, "Repair Time Standards for Transit Vehicles, Phase 2" Project funded by Florida Department of Transportation contract, $39,630

Centeno Grisselle (PI) and Lisa Staes, "Repair Time Standards for Transit Vehicles" Project funded by Florida Department of Transportation contract # BC137 RPWO#32, $50,000

Other recent (past 5 years) unfunded proposals:

Susan LeFrancois (PI), Centeno G. (Co-PI), "Utilizing Data and Technology to Advance Maternal Health Equity", Florida Blue, Jan 2022-Dec 2025, $676,183

Vollaro Mary (PI), G. Centeno (Co-PI) and J. Lee, Project Title: Increasing Opportunities for Rural Students through creative Recruitment and Retention, National Science Foundation, 2019, $649,789 – *declined*

Torres- Roca Javier (PI), Centeno G. Co-PI (25%) A Genomic Framework for Personalized Radiation Therapy in Breast Cancer, National Institute of Health, $2,000,000 – *declined*

Reeves Kingsley (PI), Centeno G. Co-PI (33%) Standard: Understanding Environmental Factors that Influence STEM Students' Motivation to Act Ethically in the Classroom and in the Workplace $600,000 – *declined*

Centeno Grisselle (PI), Reeves Kingsley, Hughes Michelle, "Understanding How the Higher Educational Environment Promotes STEM Student Motivation to Learn", Core R&D Programs, National Science Foundation, 2017, $499,775 – *declined*

Alcantar Norma (PI), Centeno (Co-PI), "PFI:BIC - Systems to remove off-flavor contaminants in aquaculture for increasing product quality.", 2017, PARTNRSHIPS FOR INNOVATION-PFI program National Science Foundation, $1,000,000 – *declined*

Reeves Kingsley (PI), Centeno Grisselle (Co-PI), "Understanding Academic Settings that Promote Ethical Behavior within the Classroom and Beyond", National Science Foundation, Cultivating Cultures of Ethical STEM program, 2017, $594,851 – *declined*

Moreno Wilfrido (PI), Centeno Grisselle (Co-PI), Interdisciplinary Project Based Intervention to Impact Retention and Diversity, The Leona M. and Harry B. Helmsley Charitable Trust, 2016, $50,000 – *declined*

A Proposed FLC-USF Engineering Approach to Support the Goal of: "Transforming STEM Education Across Florida's Consortium of Metropolitan Research Universities" – in collaboration with CoE for ATLE and the Helmsley Trust

PUBLICATIONS AND RESEARCH

Books

K. Reeves and G. Centeno, "Probability and Statistics for Engineers" – Open Source Book, University of South Florida – Sponsored by USF Provost Office, (in-progress)

Referred Publications *(Published or under review)*

Kingsley A. Reeves, Jr., Victor Hernandez-Gantes, Grisselle Centeno, Carolina Gushi Nurnberg (2021) Game—Constructivist Exercises to Enhance Teaching of Probability and Statistics for Engineers. INFORMS Transactions on Education 22(1):55-64.

French, Kimberly A., Tammy D. Allen, Michelle Hughes Miller, Eun Sook Kim, and Grisselle Centeno. "Faculty time allocation in relation to work-family balance, job satisfaction, commitment, and turnover intentions." Journal of Vocational Behavior 120 (2020): 103443.

Serkan Gunpinar, and G. Centeno. "An integer programming approach to the bloodmobile routing problem" *Transportation Research Part E: Logistics and Transportation Review*, V.86, pp. 94-115, 2016

Serkan Gunpinar, and G. Centeno. Stochastic integer programming models for reducing wastages and shortages of blood products at hospitals. *Computers & Operations Research*, V. 54, pp 129-141, 2015

FA Rico, G Centeno, L Kuznia, EA Steven, JF Torres-Roca, "Supervised Learning Methods for the Prediction of Tumor Radiosensivity to Preoperative Radiochemotherapy", *International Journal of Radiation Oncology Biology Physics* Volume 90, Issue 1, Pages S823, 2014

L. Kuznia, B. Zeng, G. Centeno, Z. Miao, "Stochastic Optimization for Power System Configuration with Renewable Energy in Remote Areas", *Annals of Operations Research* – Vol. 210, Is. 1, pp 411-432, 2013

Luis Daniel Otero, Grisselle Centeno, and Alex Ruiz-Torres, "A Fuzzy Goal Programming Model for Skill-Based Personnel Assignments", *Journal of Multicriteria Decision Making,* Vol. 2, Issue 4, pp. 313-337, 2012

Otero, L.D., Centeno, G, Otero, C.E., Reeves, K., "DEA-Tobit Approach to Identify Key Assignment Criteria in Software Engineering," *IEEE Transactions on Engineering Management*, Vol. 59, No. 3, pp. 391 – 400, 2012

Otero, L.D., Otero, C.E. and Centeno G., "A Fuzzy Expert System Architecture for Capability Assessments in Software Engineering Environments," *Expert Systems with Applications*, Vol. 39, No. 1, pp. 654 – 662, 2012

L. D. Otero, G. Centeno, A. J. Ruiz-Torres and C. E. Otero,"A Systematic Approach for Resource Allocation in Software Projects", *Computers & Industrial Engineering,* Vol. 56, Issue 4, pp. 1333 – 1339, 2009

Alex J. Ruiz-Torres, Grisselle Centeno, 2008. "Minimizing the Number of Late Jobs for the Permutation Flowshop Problem with Secondary Resources", *Computers and Operations Research* Volume 35, Issue 4, Pages 1227-1249

Florentino Rico, Ehsan Salari and Grisselle Centeno, "Emergency departments nurse allocation to face a pandemic influenza outbreak" *Proceedings of Winter Simulation Conference*, pp 1292-1298, 2008

Alex J. Ruiz-Torres and Grisselle Centeno: Scheduling with flexible resources in parallel workcenters to minimize maximum completion time. *Computers & OR* 34 (1): 48-69, 2007

Grisselle Centeno, Rajesh Chaudhary, Paula A. Lopez, A Systematic Approach for Developing Standard Times for Repair Activities in Transit Vehicles, *Transportation Research Records*, No. 1927, pp. 112-122, 2006

Centeno, G., Sampath, V., Moreno, W., Tadi, B., Maiguel, J. (2005). Nondestructive Characterization of CMP Pads Using Statistical Design Analysis. *IEEE Transactions on Semiconductor Manufacturing*, 18:4,664-671.

Centeno, Grisselle and Robert L. Armacost, "Parallel Machine Scheduling with Release Dates, Due Dates, and Machine Eligibility Restrictions for Minimizing Makespan," *International Journal of Production Research,* Vol. 42 No. 6, pp.1243-1256, 2004

Centeno, Grisselle and Robert Armacost, "Parallel Machine Scheduling with Release Time and Machine Eligibility Restrictions," *Computers and Industrial Engineering*, Vol. 33, 1997.

Centeno, Grisselle and M. Mollaghasemi, "A Methodology for a Multiple Criteria Selection of Critical Processes and Alternatives in a Benchmarking Project," *International Journal of Industrial Engineering: Applications and Practices*, Vol. 2, No. 3, 1995.

Proceedings Publications and Conference Presentations

K. Reeves, G. Centeno, "Collaborative Research: Enhancing Internships with Professional Ethics Training: Cultivating an Ethical Engineer Identity", IEEE ETHICS, NSF ER2 PI Meeting, 2021.

S. LeFrancois, K. Reeves, G. Centeno, Ethics Training: Cultivating an Ethical Engineer Identity, ISTAS21, Technological Stewardship & Responsible Innovation, 2021

G. Centeno, E. Englehardt, M. Pritchard, Panel: Research on Forming Ethical Engineers, 30th Annual APPE International Conference, 2021

S. N. Mithy, G. Centeno and I. Khalilullah, "Development of Multistage RFE-SVR Model to Predict Radiation Sensitivity," 2020 International Conference on Computational Science and Computational Intelligence (CSCI), 2020, pp. 1541-1546, doi: 10.1109/CSCI51800.2020.00286

K. Kauffman, G. Centeno, Reducing Hospital Acquired Clostridium Difficile Infections at Community Hospital System – Healthcare Systems Process Improvement Conference, San Antonio, TX (2019) https://www.xcdsystem.com/hspi/program/DPa38hv/index.cfm?pgid=1406#C

Sharmin Nahar Mithy, Grisselle Centeno, Susana Lai-Yuen, "RFE-SVR Prediction Modeling for Microarray Gene Expression Analysis" INFORMS National Conference Seattle, 2019

Kingsley A. Reeves Grisselle Centeno, "Research Opportunities to Improve Education through Engineering" INFORMS National Conference Seattle, 2019

G. Centeno, J. Iezzi, Academic and Industry Collaborative Lean Six Sigma Custom Course – Healthcare Systems Process Improvement Conference, San Antonio, TX (2019)

G. Centeno, M. Sinclair, K. Reeves, J. Lebsack, T. Kubal, Patient Panel Analysis and Optimization for Oncology Patients – Healthcare Systems Process Improvement Conference, San Antonio, TX (2019)

G. Centeno and K. Reeves, "Driving Change in the Education Industry through Engineering", Industry Studies Association Conference, Seattle WA, 2018 – refereed paper and presentation

Kingsley Reeves, and Grisselle Centeno, "Education Services Sector Studies: A Fruitful Field for Industrial Engineering Research", IISE National Conference, Orlando FL 2018 – presentation

Grisselle Centeno, Kingsley Reeves and Carolina Gushi, "Constructivism in Engineering Education and Students' Motivation to Learn", IISE National Conference, Orlando FL 2018 – presentation

Grisselle Centeno, Susana Lai-Yuen, Iman Nekooeimehr, Sharmin Mithy, Clarissa Arriaga, Carolina Giron, The Impact of Healthcare-Related Workshops on Student Motivation and Retention in Engineering, ASEE PEER, published, paper ID #19341, 2017 – Refereed paper and poster presentation

Grisselle Centeno and Florentino Rico, "Predicting Radiation Therapy Response Using Gene Expression Profiles" – Healthcare Systems Process Improvement Conference, Orlando FL, 2017 – presentation

Grisselle Centeno and Susana Lai-Yuen, "Increasing Diversity in Engineering through Healthcare Applications" – Healthcare Systems Process Improvement Conference, Orlando FL, 2017 – presentation

K. French, V. Mancini, M. Hughes Miller, G. Centeno, E Kim, "Faculty Time Allocation: A Latent Profile Approach" 2017 – Society for Industrial and Organizational Psychology, SIOP Conference, Orlando, Florida – presentation

Sharmin Mithy, Grisselle Centeno, "Microarray Data Analysis in the Prognosis of Cancer" – 2017 INFORMS Annual Conference, Houston, TX – presentation

Kingsley A. Reeves, Grisselle Centeno, Garrett Bowleg, Brittany Clift, "Reimagining the Engineering Textbook: Learning-centered Textbook Design" – 2017 INFORMS Annual Conference, Houston, TX – presentation

Grisselle Centeno, Susana Lai-Yuen, Iman Nekooeimehr, Audra Banaszak, Ashley Ishak, "Impact of Healthcare-related Pedagogical Interventions on Student Motivation and Retention", IISE, 2016 (refereed)

Florentino Rico, Grisselle Centeno, Sharmin Mithy, "Fuzzy Approach for Selection of Treatment Strategy in Cancer Treatment", IISE, 2016 (refereed)

Grisselle Centeno, Susana Lai-Yuen, Iman Nekooeimehr, "Increasing Diversity in Engineering through Healthcare Applications", AAAS Conference, Washington DC, 2016 (refereed)

Centeno G., Gunpinar S., "Integer Programming Model to Solve Bloodmobiles Routing Problem", INFORMS 2015, Philadelphia

Lai Yuen, S. and Centeno G., "Innovative Pedagogical Interventions to Increase Retention of Women in Engineering", INFORMS Annual Conference, 2015, Philadelphia

Centeno Grisselle, "Increasing Diversity in Engineering Education and Labor force through Healthcare Applications", Frontiers of Engineering Education, National Academy of Engineering, 2015

F. Rico, G. Centeno, L. Kuznia, S. Eschrich and J. Torres-Roca, "Supervised Learning Methods for the Prediction of Tumor Radiosensitivity to Preoperative Radio chemotherapy" ASTRO Conference, 2014

Rico, F., & Grisselle Centeno. Prediction of Cancer Patient Radiosensitivity using Genomic Expressions. ISERC 2013

L. Kuznia, G. Centeno "A Primal Algorithm for Solving Chance Constrained Mixed Integer Programming Problems," at INFORMS Annual Meeting, Charlotte, NC, November 2011 - invited

L. Kuznia, G. Centeno "Long Term Planning for Palliative Chemotherapy for Late Stage Cancer Patients," at INFORMS Annual Meeting, Charlotte, NC, November 2011 – invited

L. Kuznia, G. Centeno "Multi-period Hybrid Power System Design for Remote Areas," at INFORMS Annual Meeting, Charlotte, NC, November 2011 – invited

L. Kuznia, G. Centeno "Stochastic Optimization of Power Supply Systems in Isolated Regions with Renewable Energy," at INFORMS Annual Meeting, Austin, TX, November 2010 - invited

Rico, F., Centeno, G. Simulation-Based Optimization for Medical Staff Allocation During a Pandemic. IERC 2011. Reno, Nevada.

Rico, F., Centeno, G. Emergency Department Capacity Planning for Various Influenza Patient Demand Levels. IERC 2011. Reno, Nevada

G. Centeno, L. Kuznia, and F. Rico, "Constructivist Case-Based Learning in Work Analysis and Design Course," Proceedings of the 2011 Industrial Engineering Research Conference

M. Davila and G. Centeno, "Impact of turnover-times and surgeon's estimates in Operating Room utilization", IERC 2011. Reno, Nevada

Luis D. Otero, Carlos E. Otero, Grisselle Centeno, "A Multi-Objective Model for Resource Assignments in Software Engineering," 2010 International Conference on Artificial Intelligence *(ICAI)*, 2010. -- (2010 World-wide top-ranked conference by Microsoft Academic Search) - peer reviewed

Florentino Rico, Ehsan Salari and Grisselle Centeno, "Emergency departments nurse allocation to face a pandemic influenza outbreak" *Proceedings of Winter Simulation Conference*, 2008 pp 1292-1298

Grisselle Centeno, Nicholas A. Coblio, Paul R. McCright, and Heidi M. Means. "Reducing Human Error in a Pharmacy Through Bar Code System Improvements." *Proceedings of Human Factors in Organizational Design and Management (ODAM) Symposium*, 2005.

Paul R. McCright, Nicholas A. Coblio and Grisselle Centeno. "Impact of Pharmacy Work Environment on Medication Dispensing Errors." *Proceedings of Human Factors in Organizational Design and Management (ODAM) Symposium*, 2005.

G. Centeno and D. Rojas, "Revenue Management Applied to the Parking Industry," 2004 *Referee Proceedings IIE Annual Conference*.

Paula Lopez and G. Centeno, "Integrated Scheduling and Information Support System for Transit Maintenance Departments," *Referee Proceedings IIE Annual Conference*, May 2005.

Jose L. Zayas-Castro, Michael Weng, Grisselle Centeno, Jana Iezzi, Kiara Perez-Blanco, "Engineering Service at H. Lee Moffitt Cancer Center hospital: The Case for improving patient scheduling 2004 *Referee Proceedings IIE Annual Conference*, May 2005.

Grisselle Centeno, LaNetra Clayton, Luis D. Otero and Souheil Zekri, "Innovative Modules to Introduce Advance Science and Engineering Concepts," *IEEE Proceedings Frontiers in Education* 34th Annual Conference, Savannah Georgia, October 2004

Miguel Labrador, John T. Wolan, Grisselle Centeno, Ashok Kumar, Gray Mullins, and Rudiger Schlaf, "A Research Initiative to Close the Gap between Undergraduate and Graduate School in Enginnering," *IEEE Proceedings Frontiers in Education* 34th Annual Conference, Savannah Georgia, October 2004

Mayur Sedani, Michael Weng and Grisselle Centeno "Single machine scheduling with distinct due date, processing time, and earliness and tardiness penalties" Flexible Automation and Intelligent Manufacturing (FAIM) Conference Proceeding 2003

Alejandro Carbo, Carlos Paternina and Grisselle Centeno "Modeling the Logistic System of a Fertilizer Company" International Journal of Computers and Industrial Engineering, 2003

Grisselle Centeno, V. Sampath, A. Eranki, W. Moreno, P. Datar, B.Tadi, "Application of Statistical Design Models for the Characterization of CMP Pads Using Non-Destructive Ultrasonic Methodology and Laser Testing Methodology" Annual IIE Conference Proceedings, May 2002

Other Talks

"Careers Paths in Operations Research", INFORMS Doctoral Colloquium, Oct 2021 – with Iara Luis-Stoll and Scott Mason

"Teaching Strategies", IISE New Faculty Colloquium, May 2021 – with Denis Cormier and Katie Basinger-Ellis

"Enhancing Simulation and Testing of Emergency Medical Service Vehicles in AVs Settings: Project Status Report". Presentation at AMI seminar. Florida Polytechnic University, Lakeland, FL. May 2020 (with Reinaldo Sanchez-Arias)

"Establishing an HSE Center at Florida Polytechnic University", ELATES Institutional Action Project, 2021 – presented to Deans, Provosts and Presidents from over 30 higher-Ed Institutions from across the Nation.

"About Women in STEM and Research", Women in STEM panel discussion, sponsored by Florida Poly Advancement Office – Webex Presentation – Over 90 attendees from local community

"Enhancing Simulation and Testing of Emergency Medical Service Vehicles in AVs Settings: Project Status Report". Presentation at AMI seminar Florida Polytechnic University, Lakeland, FL. June 2020.

Created and delivered Workshop: "How to Create an Effective Curriculum to Train Acculturated Staff within your Health Organization" Invited pre-conference HSPI, IISE (4 hours)

Opening Keynote: "On Developing Supply Chain Talent: Challenges and Opportunities", Central Florida Roundtable, Talent Development Symposium, March 7PthP, 2019

Presented and opened event for West Central FL Acute Stroke Council, May 8, 2019

Invited Speaker Florida Poly Board of Trustees (BOT) retreat, May 22, 2019

Bay News 9 interview – "Florida Polytech Professor hopes to inspire women in STEM" – by Yadira Iraheta, Polk County, Published Jun 13, 2019

Grisselle Centeno -Ethics in Engineering -Podcast on Ethics in Engineering September 20, 2019

Work in progress

Florentino Rico, Grisselle Centeno, Ludwig Kuznia, Steven A. Eschrich and Javier F. Torres-Roca, "Prediction of Response to Radiation Therapy Using Gene Expression Profiles", in preparation for submission to *IISE Transactions on Health Systems Engineering*

G. Centeno, L. Kuznia, B. Zeng, B. Decker, V. Decker and D. Decker, "Predicting Response to Chemotherapy in Stage IV Breast Cancer Patients Using Data Mining Techniques with EMR Data" under review *IEEE Transaction on Biomedical Engineering*

G. Centeno, S. Lai-Yuen, I. Nekooeimehr and S. Mithy, "Healthcare Related Interventions to Increase Engineering Students' Motivation and Female Retention" – in preparation for submission to *Journal of Engineering Education* (JEE)

M. Davila, G. Centeno, "A surgical library for scheduling operating rooms", in preparation for submission to *OR for Healthcare*

M. Davila and G. Centeno, "Impact of back-to-back surgeons scheduling in operating room's turnover times", in preparation for submission to *International Journal for Quality in Healthcare*

A. Fabregas and G. Centeno, "A mathematical programming approach for multimodal network design decision making" in preparation for submission to *Journal of regional science*

A. Fabregas and G. Centeno, "Solving Nonlinear Network Problems through Piecewise Linear Approximations" in preparation for submission to *Computers and OR*

INSTITUTIONAL AND PROFESSIONAL SERVICE ACTIVITIES

- Research Experience for Undergraduates (REU) program coordinator, Fall 2001- Spring 2019 – responsibilities include facilitation interactions between faculty and undergraduates, following up on research adequacy and goals and verification of research program student compliance.
- ABET coordinator for IMSE – and representative to the College ABET committee, 2015-present
- SACS coordinator for IMSE – Undergraduate program (BSIE), 2015- present
- IMSE Recruitment Committee, Director, 2011-present
- COE Senator Representative, USF Faculty Senate, 2007-2010
- Faculty advisor for the Society of Hispanic and Professional Engineers, Fall 2001- 2008
- Research Experience for Undergraduates (REU) program coordinator, Fall 2001- present
- McNair Scholar Research Faculty Advisor, May 2002 – 2007
- IIE Board of Directors, Operations Research Division National Organization, 2004- 2009
- IIE OR-Division presidential positions 2007-2009
- Reviewer for IJPR, Computers and IE, IEEE in Semiconductor, Computers and OR, IEEE Robotics and Automation, Mathematics and Computer Modeling, J of Public Transportation, Transportation Research Board, Applied Mathematical Modelling, J of Planning and Scheduling
- McNair Scholar Research Faculty Advisor, May 2002 – 2005
- McNair Scholar Mentor, October 2001 – 2005
- I.E. Undergraduate Committee, Fall 2001 - present
- College Minority Committee, Fall 2001- present
- USF IMSE Department, "ABET- Survey Committee," Spring 2001 – Spring 2002
- USF IMSE Department, "Engineering Management Committee," August 2000- August 2002

TEACHING ACTIVITIES

Courses Taught

Business Analytics
Healthcare Systems Engineering (graduate and undergraduate)
Operations and Supply Chain Management (graduate and undergraduate)
Operations Research (graduate and undergraduate)
Multivariate Optimization (graduate)
Production Control (graduate and undergraduate)
Engineering the Supply Chain (graduate)
Probability and Statistics for Engineers (graduate and undergraduate)
Engineering Economics (undergraduate) and Advanced Engineering Economic Analysis (graduate)

Work Design and Analysis (undergraduate)
Operations Research for Engineering Managers (graduate)
Special Optimization Topics: Graduate Research Seminar
Facilities Design (undergraduate)
Data Analytics (College of Medicine)

REU Students Sponsored (At USF and Florida Poly)

Name of Students					
1	Yasmin Palacio	2	Julian Montenegro	3	Di Li
4	Daniel Rojas ¥	5	Kelly Boyden	6	Audra Banaszak
7	Mickey Arruda	8	Nangellie San Inocencio	9	Ashley Ishak
10	Keisha Minatee	11	Nyree Karmody	12	Carolina Giron
13	Kiara Perez-Blanco	14	Noelia Gonzalez	15	Carolina Gushi
16	Scott Wilkinson	17	Maria Rodriguez	18	Daniela Valdivieso
19	Roberto Perez-Blanco	20	Garrett Bowleg	21	Clarissa Arriaga
22	Miguel Amaral	23	Madison Yonash	24	Jordan Douglass

¥ Honorable mention award at College Competition

Dissertations and Theses Directly Supervised **

	Ph.D. Student	**Dates of Service**	**Function**
1	Luis D. Otero	Fall 2003- 2010	Director
2	Nick Coblio	Fall 2004 – 2011	Co-Director
3	Aldo Fabregas	Spring 2004- Fall 2012	Director
4	Ludwig Kuznia	Summer 2009- May 2012	Director
5	Marbelly Davila	Spring 2008- May 2013	Director
6	Serkan Gunpinar	August 2011-August 2013	Director
7	Florentino Rico ****	Fall 2009- Summer 2014	Director
8	Balaji Ramadoss	Fall 2013 – 2015	Co-Director
	Master Student	**Dates of Service**	**Function**
1	Sandeep Iyer	Fall 2001-Fall 2003	Director
2	Rajesh Chaudhary	Spring 2002-Fall 2003	Director
3	Alejandro Carbo	Summer 2002-Spring 2003	Director
4	Vikram Bhide	Fall 2002-Spring 2005	Co-Director
5	Anitha Eranki	Fall 2002-Spring 2004	Director
6	Daniel Rojas *****	Fall 2004- Fall 2006	Director
7	Paula Lopez	Spring 2003-Spring 2005	Director
8	Florentino Rico ****	Fall 2007- Summer 2009	Director
9	Brittany Clift	Fall 2017 – Fall 2019	Co-Director
10	Priyanka Prayagai	Summer 2018 – Fall 2018	Director
11	Maile Sinclair	Summer 2018 – Fall 2018	Co-Director
12	Tamara Rosario	Summer 2018 – Fall 2018	Director
13	Sharmin Mithy	Fall 2015 – Fall 2019	Director
14	Joshua Olabisi	Spring 2019- Fall 2020	Director
15	Jordan Jernigan	Spring 2021-Fall 2021	Director
16	Somayeh Sadeghizadeh	Spring 2021-Fall 2021	Director
17	Jean Menieur	Spring 2021-Fall 2021	Director

****Dr. Centeno has also participated as a committee member for other 25 theses/dissertations.***
***** Recipient of USF Latino Award - Awarded in 2009***
****** Recognized as the USF Outstanding Master Thesis - Awarded in 2007***

MEDIA EXPOSURE

- Featured for "What's your story" ISE Magazine, Nov 2021
- Featured (Cover page) Diverse, Issues in Higher Education, July 2021
- Florida Poly Website Leaders inspire Success - https://floridapoly.edu/news/articles/2020/10/102820-womeninstem.php

On Mentoring: *Florida Poly Website Grad student finds success, support with faculty mentor - https://floridapoly.edu/news/articles/2021/01/012121-mentorship.php*

News related to HSE and HSE concentration

- *Florida Trend.Com https://www.floridatrend.com/article/30343/florida-poly-launches-states-first-undergraduate-health-engineering-program - Florida Poly launches state's first undergraduate health engineering program*
- *Central Florida Development Council - https://www.cfdc.org/industry-innovation-expected-through-florida-polys-new-health-systems-engineering-program/ - "Health systems engineering is the wave of the future — one that will help increase access to medical care, introduce efficiencies and improve patient care — and Florida Polytechnic University is once again on the cutting edge."*
- *Central Florida Doctor – "A new angle for Healthcare Careers" Mangzter Magazine 2021*
- *Florida Politics - https://floridapolitics.com/archives/385904-florida-poly-launches-health-systems-engineering-program-amid-covid-19-pandemic*
- *Florida Daily https://www.floridadaily.com/florida-polytechnic-university-launches-health-systems-engineering-program/*

PERSONAL

Fluent in English and Spanish