

Julie Drzymalski, Ph.D., PEM
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EDUCATION

Doctor Of Philosophy, Industrial and Systems Engineering, May, 2008
Lehigh University, Bethlehem PA
Dissertation: An Intelligent System Approach for a Coordinated Supply Chain
Advisor: Dr. Nicholas G. Odrey

M.S. Management Science, 2007
Lehigh University, Bethlehem PA

M.Eng. Engineering Management, 2002
Widener University, Chester PA

B.S. Mechanical Engineering, 1992
Polytechnic University, Brooklyn NY (now NYU-Poly)

APPOINTMENTS

Clinical Professor and Program Director, Systems Engineering and Engineering Management Drexel University, Philadelphia PA	July '16-present
Interim Chair of Industrial Engineering and Engineering Management Engineering Management Graduate Program Director Associate Professor of Industrial Engineering and Engineering Management Western New England University, Springfield MA	Sept '14-June '16
Assistant Professor of Industrial Engineering and Engineering Management Western New England University, Springfield, MA	Aug '08-May '14
NSF IGERT Fellow Lehigh University, Dept of Industrial and Systems Engineering, Bethlehem, PA	Sept '04-Aug '07
Instructor Lehigh University, Dept of Industrial and Systems Engineering, Bethlehem, PA	Jan '07-July '08
Adjunct Instructor Lehigh University Lehigh Carbon Comm. College, Schnecksville, PA Cumberland County College, Vineland, NJ Rowan University, Glassboro, NJ Chestnut Hill University, Chestnut Hill, PA	Sept '07-May '08 Aug '07-Dec '07 Jan '02-July '04 Jan '02-July '04 Jan '02-Dec '03
Program Manager A.A.S. in Construction Management Cumberland County College, Vineland, NJ	Jan '02-July '04

Project Manager Oldcastle Precast Modular Group, Telford, PA	Aug '01-Jan '02
Program Manager Engineered Arresting Systems Corporation, Aston, PA	Mar '98-Aug '01
Quality Assurance Manager Rocla Concrete Tie, Inc., Bear, DE	July '95-Mar '98
Engineering Supervisor Future Tech Consultants, New Hyde Park, NY	Nov '94-June '95
Construction Materials Inspector Materials Testing Lab, Hicksville, NY	June '93-Nov '94

REFEREED PUBLICATIONS

Drzymalski, J. "The Impact of the Social Determinants of Health on Medication Adherence Rates: A Foundational Agent Based Model", *under review*

Skeete, A. and Drzymalski, J. "Robustness of emerging scale free supply chain networks with stochastic entry links", *under review*

Drzymalski, J. and Mastro, S. "A Model Based System Engineering Framework for Peacebuilding", *Proceedings of the 2017 American Society for Engineering Management Conference*

Namdari, A., Drzymalski, J., Tohidi, H., "Labor Productivity and Optimal Team Size in an Inspection Process", *Proceedings of the 2017 Industrial and Systems Engineering Conference*

Shi, W., Drzymalski, J. "Non-cooperative Game Theory Analysis in Supply Chain Internal Financing", *Proceedings of the 2017 Industrial and Systems Engineering Conference*

Namdari, A., Mohammadi, S., Drzymalski, J., Salmon, C. "Proposing a Self-optimizing Neural Network to Predict Total Stock Return", *Proceedings of the 2017 Industrial and Systems Engineering Conference*

Shi, W., Drzymalski, J., Li, J. "Quantifying Service Value Using Bayesian Modeling", *Proceedings of the 2017 Industrial and Systems Engineering Conference*

Tohidi, H., Namdari, A., Keyser, T.K. and Drzymalski, J. "Information sharing systems and teamwork between sub-teams: a mathematical modeling perspective", *Journal of Industrial Engineering International*, March 2017

Skeete, A. and Drzymalski, J. "Evaluating Resilience through Heterogeneous Goodness of Fit Preferential Attachment in Scale-Free Networks", *Proceedings of the American Society for Engineering Management 2016 International Annual Conference*

Drzymalski, J. "Measuring Supply Chain Complexity Incorporating Virtual Arcs", *Journal of Systems Science and Systems Engineering*, Vol 24 Issue 4, 2015 p. 486-499

Guo, J., Shi, W. and Drzymalski, J. "Activity Based Costing for Analyzing Logistics Costs in Chinese Coal Manufacturing Industry", *Proceedings of the 2015 Industrial and Systems Engineering Research Conference*
<http://www.xcdtech.com/iie/iserc/2015/47.pdf>

Shi, W. and Drzymalski, J. “Measuring College Student Satisfaction: Analyzing Interactions among Student Attributes” *Proceedings of the 2014 Industrial and Systems Engineering Research Conference*.
<http://www.xcdsystem.com/ie2014/abstract/finalpapers/I797.pdf>

Drzymalski, J.” Supply Chain Frameworks and Performance Measures for the Service Industry: A Review of the Literature”, *European International Journal of Science and Technology* Vol. 1 No. 3 December 2012 http://www.ijastnet.com/journals/Vol_1_No_6_November_2011/2.pdf

Drzymalski, J. Odrey, N.G. “A Framework for a Synchronized Supply Chain”, *International Journal of Applied Science and Technology*, Volume 1, No. 6, 2011
http://www.ijastnet.com/journals/Vol_1_No_6_November_2011/2.pdf

Drzymalski, J. Odrey, N.G. “Supervisory Control of a Synchronized Supply Chain Using Petri Nets”, *Proceedings of the 2010 Industrial Engineering Research Conference*.
<http://www.xcdtech.com/ie/iserc/2010/504.pdf>

Drzymalski, J. Odrey, N.G. and Wilson, G.R. “Aggregating Performance Measures of a Multi-Echelon Supply Chain Using the Analytical Network and Analytical Hierarchy Process” *International Journal of Services Economics and Management*, Volume 2, Nos. 3/4, 2010. Abstract:
<http://www.inderscience.com/info/inarticle.php?artid=33368>

Drzymalski, J. and Odrey, N.G. “Supplier Selection in a Multi-Echelon Supply Chain with Lead Time Uncertainty Using Chance Constrained Programming”, *Proceedings of the 2009 Industrial Engineering Research Conference*. <http://www.xcdtech.com/ie/iserc/2009/IEE315.pdf>

Drzymalski, J. and Odrey, N.G. “Supervisory Control of a Multi-Echelon Supply Chain: A Modular Petri Net Approach for Inter-organizational Control” *Robotics and Computer Integrated Manufacturing*, Volume 24, 728-734, 2008. Abstract: <http://www.sciencedirect.com/science/article/pii/S0736584508000343>

Drzymalski, J. and Odrey, N.G. “Supervisory Control of a Multi-Echelon Supply Chain: Structure, Modeling, Performance Measures and System Analysis for Inter-organizational Control” *Proceedings of the 17th International Conference on Flexible Automation and Intelligent Manufacturing*, 2007.

Drzymalski, Julie and Odrey, N.G. “Development of a Process Reference Model and Performance Measures For Use in a Synchronized Supply Chain (SCC)” Working Paper, Lehigh University

OTHER PUBLICATIONS

Drzymalski, J., Gladstone, E., Troyani, L., Niu, D., “The 7 Key Trends Impacting Today’s Workplace:Results from the 2014 TINYpulse Employee Engagement and Organizational Culture Report” *TinyPulse* January 2015, Retrieved from: <http://www.tinypulse.com/2014-employee-engagement-organizational-culture-report>

Drzymalski, J., McCune, R., Nakao, K. and Niu, D., “7 Vital trends Disruption Today’s Workplace:Results from the 2013 TINYpulse Employee Engagement and Organizational Culture Report” *TinyPulse* January 2014, Retrieved from: <http://www.tinypulse.com/resources/employee-engagement-survey-2013>

PRESENTATIONS

Agena, S., Drzymalski, J. “A Model Based Systems Engineering Framework for Peacebuilding”, ASEM International Annual Conference, Huntsville Alabama, October 2017

Namdari, A., Drzymalski, J., Tohidi, H., “Labor Productivity and Optimal Team Size in an Inspection Process”, ISERC Annual Conference, Pittsburgh, PA May 2017

Alarashi, A., Niknam, S., Drzymalski, J., Keyser, T., Kumar, S., “Supply Chain Credit Risk Management”, ISERC Annual Conference, Pittsburgh, PA, May 2017

Shi, W., Drzymalski, J. “Non-cooperative Game Theory Analysis in Supply Chain Internal Financing”, ISERC Annual Conference, Pittsburgh, PA, May 2017

Shi, W., Drzymalski, J., Li, J. “Quantifying Service Value Using Bayesian Modeling”, ISERC Annual Conference, Pittsburgh, PA, May 2017

Drzymalski, J. “Engineering for Good: A Course in Systems Tools for Peacebuilding”, ISERC Annual Conference, Pittsburgh PA May 2017

Namdari, A., Mohammadi, S., Drzymalski, J., Salmon, C. “Proposing a Self-optimizing Neural Network to Predict Total Stock Return”, ISERC Annual Conference, Pittsburgh, PA, May 2017

Drzymalski, J. “Maestros and Martians: Using Systems Tools for Peacebuilding”, INCOSE Delaware Valley, Jan 2017

Skeete, A., Drzymalski, J. *Investigating Scale-Free Parameters in Supply Chain Network Resilience*, ISERC Annual Conference, Anaheim, CA, May, 2016

Shi, W., Drzymalski, J. *Non-cooperative Game Theory Analysis in Supply Chain Internal Financing*, INFORMS Annual Meeting, Philadelphia PA October 2015

Skeete, A., Drzymalski, J. *Improving Supply Chain Network Resiliency with Preferential Growth Decision Making* INFORMS Annual Meeting, Philadelphia PA October 2015

Shi, W., Drzymalski, J. *Analyzing Supply Chain Efficiency with Internal Financing*, ISERC Annual Conference, Nashville, TN, June 2015

Shi, W., Drzymalski, J. *Quantifying Service Value in the Perspective of Customers*, ISERC Annual Conference, Nashville, TN, June 2015

Guo, J., Shi, W., Drzymalski, *Activity-based Costing (ABC) for Analyzing Logistics Costs in Chinese Coal Manufacturing Industry*, ISERC Annual Conference, Nashville, TN, June 2015

Guo, J., Shi, W. and Drzymalski, J. *Activity Based Costing for Analyzing Logistics Costs in Chinese Coal Manufacturing Industry*, ASEM Annual Conference, Virginia Beach VA, October 2014

Shi, W., Drzymalski, J. *Analyzing Supply Chain Financing under Different Demand Risk Levels*, ISERC Annual Conference, Montreal QC, June 2014

Shi, W., Drzymalski, J. *Measuring College Student Satisfaction: Analyzing Interactions among Student Attributes*, ISERC Annual Conference, Montreal QC, June 2014

Dehghanimohammadabadi, M., Drzymalski, J. *Secure Service-Based IT-Enabled SCM Model*, ISERC Annual Conference, Montreal QC, June 2014

Drzymalski, J., Murali, K., *Framework for a Software Quality Rating System*, ISERC Annual Conference, Puerto Rico, May 2013

Drzymalski, J., *Supply Chain Optimization Under Uncertainty*, IIE Annual Conference, Orlando, Florida, May 2012

Drzymalski, J., *A Sustainable Production and Manufacturing Course Integration*, IIE Annual Conference-6th Annual Innovations in Curriculum Competition, Orlando, Florida, May 2012

Drzymalski, J., *Supply Chain Decision Making Under Uncertainty Utilizing Neural Networks*, IIE-IERC Annual Conference, Reno NV, May 2011

Rahnamai, K, Drzymalski, J., *Proposal for a Collaborative New England Regional Smart Grid Training Program*, Decision Sciences, Montreal Canada, April 2011

Drzymalski, J., *Supervisory Control of a Synchronized Supply Chain Using Petri Nets*, IIE-IERC Annual Conference, Cancun, Mexico, May 2010

Drzymalski, J., *Supplier Selection in a Multi-Echelon Supply Chain with Lead Time Uncertainty Using Chance Constrained Programming*, IIE Annual Meeting, Miami, FL, June 2009

Drzymalski, J., *Hierarchical Decomposition of Multi-Echelon Supply Chain for Determining Supplier Selection*, INFORMS Annual Meeting, Seattle, WA, November 2007.

Drzymalski, J., *Aggregating Performance Measures of a Multi-Echelon Supply Chain using the Analytical Network Process*, INFORMS, Puerto Rico, July 2007.

Drzymalski, J., *Supervisory Control of a Multi-Echelon Supply Chain: Structure, Modeling, Performance Measures and System Analysis for Inter-organizational Control*, FAIM, Philadelphia, PA, June 2007.

Drzymalski, J., *A Swift Response for Cost Allocation in a Horizontal Partnership: The Shapley Value and Analytical Network Process - A Comparative Analysis*, Lehigh University, ISE Department, January 19, 2007.

Drzymalski, J., *An Intelligent System Approach for a Coordinated Supply Chain Having an Error-Recovery Mechanism*, Katholieke Universiteit Leuven, Belgium, September, 2006.

CERTIFICATIONS

New York State, Engineer in Training, 1992

SERVICE ACTIVITIES/PROFESSIONAL DEVELOPMENT

Institute of Industrial and Systems Engineers, Society of Engineering and Management Systems, Board Member, Newsletter Editor

Institute of Industrial and Systems Engineers, International Committee (SEMS), Chair 2016-present

INCOSE Healthcare Working Group, 2017-present

2018 ASEM International Conference Chair

INCOSE Resiliency Working Group 2016-2018

Institute of Industrial and Systems Engineers, Hartford Chapter, Secretary, 2014-2016

Abstract and Paper Reviewer, ISERC Annual Conference 2009-present

Abstract and Paper Reviewer, ASEM Annual Conference 2016-present

Paper Reviewer, INCOSE International Symposium 2016-present

SWE Region F Conference Chair, 2014

Reviewer, Journal of Systems Science and Systems Engineering

Reviewer, INCOSE International Symposium 2016

Reviewer, National Defense Science and Engineering Graduate (NSDEG) Fellowship, 2015-2017

Reviewer, Science, Mathematics & Research for Transformation (SMART) Fellowship, 2015-2017

Reviewer, Journal of Integrated Supply Management

Reviewer, Journal of Services, Economics and Management

CONSULTING

Guided e-Learning

Automobile Club of America (AAA) of Phoenix

TinyPulse (<https://www.tinypulse.com/>)

Sophia Learning (<https://www.sophia.org/home-student>)

Hamilton Sundstrand

Karmaloop (<http://www.karmaloop.com/>)

Kayabit Games (<http://www.kayabit.com/>)

Portsmouth Builders, Marois Construction

McGraw Hill

Magoosh