
Curriculum Vitae
SADAN KULTUREL-KONAK

Penn State Berks

Tulpehocken Road PO Box 7009 Reading, PA 19610

Phone: 610-396-6137

Email: sadan@psu.edu

URL: <http://www.personal.psu.edu/~sxxk70/>



PROFESSIONAL PREPARATION

Ph.D., Industrial and Systems Engineering, Auburn University	2002
M.S., Industrial Engineering, University of Pittsburgh	1999
M.S., Industrial Engineering, Middle East Technical University, Ankara, Turkey	1996
B.S., Industrial Engineering, Gazi University, Ankara, Turkey	1993

PROFESSIONAL EXPERIENCE

July 2013- Present	Professor of Management Information Systems, Coordinator of Entrepreneurship and Innovation Minor, Penn State Berks, PA
September 2011-Present	Founding Director of Center for Entrepreneurship and Economic Development (CEED), Penn State Berks, PA
July 2008- June 2013	Associate Professor of Management Information Systems, Coordinator of Entrepreneurship and Innovation Minor, Penn State Berks, PA
January 2003- June 2008	Assistant Professor of Management Information Systems, Penn State Berks, PA
June-December 2002	Post-doc Fellow, Industrial and Systems Engineering, Auburn University, AL

Visiting Positions

June-August 2014	Visiting Teaching Scholar, Department of Systems Engineering and Engineering Department, The Chinese University of Hong Kong, Hong Kong
January-May 2014	Visiting Research Scholar, Industrial and Systems Engineering, Lehigh University, PA (sabbatical)

June-August 2013	Visiting Teaching Scholar, Department of Systems Engineering and Engineering Department, The Chinese University of Hong Kong, Hong Kong
June-August 2011	Visiting Teaching Scholar, Department of Systems Engineering and Engineering Department, The Chinese University of Hong Kong, Hong Kong

REFEREED JOURNAL ARTICLES

- **Kulturel-Konak, S.** and Konak, A. (in print). “A Large Scale Hybrid Simulated Annealing Algorithm for Cyclic Facility Layout Problem.” *Engineering Optimization*.
- Liang, Y.-C., **Kulturel-Konak, S.**, and Lo, M.H. (2013). “A Multiple-Level Variable Neighborhood Search Approach to the Orienteering Problem.” *Journal of Industrial and Production Engineering*, 30(4), 238-247.
- **Kulturel-Konak, S.** and Konak, A. (2013). “Linear Programming Based Genetic Algorithm for the Unequal Area Facility Layout Problem.” *International Journal of Production Research*, 51(14), 4302-4324.
- Ulutas, B.H. and **Kulturel-Konak, S.** (2013). “Assessing Hypermutation Operators of Clonal Selection Algorithm for the Unequal Area Facility Layout Problem.” *Engineering Optimization*, 45(3), 375-395.
- **Kulturel-Konak, S.** (2012) “A Linear Programming Embedded Probabilistic Tabu Search for the Unequal-Area Facility Layout Problem with Flexible Bays.” *European Journal of Operational Research*, 223, 614-625.
- Ulutas, B.H. and **Kulturel-Konak, S.** (2012). “An Artificial Immune System Based Algorithm to Solve Unequal Area Facility Layout Problem.” *Expert Systems with Applications*, 39, 5384-5395.
- Konak, A., **Kulturel-Konak, S.**, Levitin, G. (2012). “Multi-objective Optimization of Linear Multi-state Sliding Window System.” *Reliability Engineering and System Safety*, 98, 24-34.
- Ulutas, B.H. and **Kulturel-Konak, S.** (2011) “A Review of Clonal Selection Algorithm and Its Applications.” *Artificial Intelligence Review*, 36(2), 117-138.
- **Kulturel-Konak, S.** and Konak, A. (2011) “A New Relaxed Flexible Bay Structure Representation and Particle Swarm Optimization for the Unequal Area Facility Layout Problem.” *Engineering Optimization*, 43(12), 1263-1287.
- Konak, A. and **Kulturel-Konak, S.** (2011) “Reliable Server Assignment in Networks using Nature Inspired Metaheuristics.” *IEEE Transactions on Reliability*, 60(2), 381-393.
- **Kulturel-Konak, S.** and Konak, A. (2011) “Unequal Area Flexible Bay Facility Layout using Ant Colony Optimization.” *International Journal of Production Research*, 49(7), 1877-1902.

- **Kulturel-Konak, S., D'Allegro, M.L., and Dickinson, S.** (2011) "Review of Gender Differences in Learning Styles: Suggestions for STEM Education." *Contemporary Issues in Education Research*, 4(3), 9-18.
- **Kulturel-Konak, S., Maurer, C.R. and Lohin, D.L.** (2010) "Teaching Students How to Effectively Work in Virtual Teams." *International Journal of Information Technology Project Management*, 1(2), 61-78.
- **Ramirez-Marquez, J.E., Kulturel-Konak, S., and Sanseverino, C.M.R.** (2010) "Probabilistic Solution Discovery Algorithm for the Orienteering Problem." *International Journal of Industrial and Systems Engineering*, 6(1), 45-61.
- **Konak, A., Kulturel-Konak, S. and Azizoglu, M.** (2008) "Minimizing the Number of Tool Switching Instants in Flexible Manufacturing Systems." *International Journal of Production Economics*, 116, 298-307.
- **Kulturel-Konak, S., Coit, D.W., and Baheranwala, F.** (2008) "Pruned Pareto-Optimal Front to the Multi-Objective System Redundancy Allocation Problem." *Journal of Heuristics*, 14(4), 335-357.
- **Konak, A. and Kulturel-Konak, S.** (2007) "Ant Colony Optimization for the Minimization of the Number of Tool Switching Instants in Flexible Manufacturing Systems." *International Journal of Information Technology and Intelligent Computing*, 2(2).
- **Kulturel-Konak, S.** (2007) "Approaches to Uncertainties in the Facility Layout Problems: Perspectives at the Beginning of the 21st Century." *Journal of Intelligent Manufacturing*, 18(2), 273-284.
- **Kulturel-Konak, S., Smith, A.E., and Norman, B.A.** (2007) "Bi-objective Facility Expansion and Relayout Considering Monuments." *IIE Transactions*, 39(7), 747-761.
- **Scheubrein, R. and Kulturel-Konak, S.** (2006) "An Electronic Teaching Assistant for Basic Operations Management Methods." *INFORMS Transactions on Education*, 7(1).
- **Konak, A., Kulturel-Konak, S., Norman, B.A. and Smith, A.E.** (2006) "A New Mixed Integer Programming Formulation for Facility Layout Problem using Flexible Bays." *Operations Research Letters*, 34, 660-672.
- **Kulturel-Konak, S., Smith, A.E., and Norman, B.A.** (2006) "Multi-Objective Tabu Search using a Multinomial Probability Mass Function." *European Journal of Operational Research*, 169(3), 915-931.
- **Kulturel-Konak, S., Smith, A.E., and Norman, B.A.** (2004) "Layout Optimization Considering Production Uncertainty and Routing Flexibility." *International Journal of Production Research*, 42(21), 4475-4493.
- **Kulturel-Konak, S., Norman, B.A., Coit, D.W., and Smith, A.E.** (2004) "Exploiting Tabu Search Memory in Constrained Problems." *INFORMS Journal on Computing*, 14(3), 241-254.
- **Kulturel-Konak, S., Smith, A.E., and Coit, D.W.** (2003) "Efficiently Solving the Redundancy Allocation Problem using Tabu Search." *IIE Transactions*, 35(6), 515-526.

- Konak, A., **Kulturel-Konak, S.**, Smith, A.E., and Nettleship, I. (2003) “Estimation of Shrinkage for Near Net-Shape using a Neural Network Approach.” *Journal of Intelligent Manufacturing*, 14(2), 219-228.
- **Kulturel, S.**, Ozdemirel, N.E., Sepil, C., and Bozkurt, Z. (1999) “Experimental Investigation of Shared Storage Assignment Policies in Automated Storage/Retrieval Systems.” *IIE Transactions*, 31(8), 739-749.

REFEREED PROCEEDINGS ARTICLES

- **Kulturel-Konak, S.** and Konak, A., Okudan Kremer, G., Esparragoza, I., and Yoder, G., “Peer Evaluation & Assessment Resource (PEAR) to Assess Students’ Professional Skills,” *Proceedings of the Industrial and Systems Engineering Research Conference*, 1-8, Montreal, Canada. (The Best Paper of the Engineering Education Track)
- Cioffi, N., **Kulturel-Konak, S.** and Konak, A., “Anything is Possible- Teaching Entrepreneurship in an Interactive K-12 Workshop,” *Proceedings of the 2014 IEEE Integrated STEM Education Conference*, 1-5, Princeton, NJ.
- Vance, K., **Kulturel-Konak, S.** and Konak, A., “Assessing Teamwork Skills and Knowledge,” *Proceedings of the 2014 IEEE Integrated STEM Education Conference*, 1-5, Princeton, NJ.
- **Kulturel-Konak, S.**, “Relaxed Flexible Bay Structure in the Unequal Area Facility Layout Problem,” *Proceedings of the IIE Asian 2013 Conference*, 1563-1570, Taipei, Taiwan.
- **Kulturel-Konak, S.**, Konak, A., Esparragoza, I., and Okudan Kremer, G., “Assessing Professional Skills in STEM Disciplines,” *Proceedings of the 2013 IEEE Integrated STEM Education Conference*, 1-4, March 9, 2013, Princeton, NJ.
- **Kulturel-Konak, S.** and Trauth, E.M., “Information Systems and Technology Education in the USA: Perspectives from Community Colleges.” *Proceedings of the AMCIS 2012 Conference*, Paper 6, 1-10, Seattle, WA.
- **Kulturel-Konak, S.** and Konak, A., “Ant Colony Optimization for the Unequal-Area Facility Layout Problem.” *Proceedings of International Conference on Evolutionary Computation Theory and Applications 2011*, 273-277, University PARIS-EST Créteil (UPEC), Paris, France.
- Konak, A. and **Kulturel-Konak, S.**, “A Clonal Selection Algorithm to Investigate Diverse Solutions for the Reliable Server Assignment Problem.” *Proceedings of International Conference on Evolutionary Computation Theory and Applications 2011*, 156-161, University PARIS-EST Créteil (UPEC), Paris, France.
- Joshi, K. D., Kvasny, L., McPherson, S., Trauth, E.M., **Kulturel-Konak, S.**, and Mahar, J., “Choosing IT as a Career: Exploring the Role of Self-Efficacy and Perceived Importance of IT Skills.” *Proceedings of the International Conference on Information Systems 2010*, St. Louis, MO, 154-162.

- **Kulturel-Konak, S.** and Konak, A., “Simulation Optimization Embedded Particle Swarm Optimization for Reliable Server Assignment.” *Proceedings of the 2010 Winter Simulation Conference*, Baltimore, MD, 2897-2906.
- Trauth, E.M., Joshi, K. D., Kvasny, L., Chong, J., **Kulturel-Konak, S.**, and Mahar, J., “Millennials and Masculinity: A Shifting Tide of Gender Typing of ICT?” *Proceedings of the AMCIS 2010 Conference*, Lima, Peru, Paper 73, 1-9.
- Konak, A. and **Kulturel-Konak, S.**, “An Integrated Genetic Algorithm and Integer Programming Approach to the Network Design Problem with Relays.” *Proceedings of the 2009 Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems*, Pittsburgh, PA, 325.
- **Kulturel-Konak, S.** and Konak, A., “Reliable Network Server Assignment using an Ant Colony Approach.” *Proceedings of ESREL 2008- Annual Conference of European Safety and Reliability Association (ESRA) and Society for Risk Analysis Europe (SRA-E)*, Valencia, Spain, 2657-2663.
- Dallard, H., Lam, S., and **Kulturel-Konak, S.**, “Solving the Orienteering Problem using Attractive and Repulsive Particle Swarm Optimization.” *Proceedings of the 2007 IEEE International Conference on Information Reuse and Integration*, Las Vegas, NV, 12-17.
- **Kulturel-Konak, S.** and Coit, D.W., “Determination of Pruned Pareto Sets for the Multi-Objective System Redundancy Allocation Problem.” *Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Multi-Criteria Decision-Making*, Honolulu, HI, 390-394.
- Konak, A. and **Kulturel-Konak, S.**, “An Ant Colony Optimization Approach to the Minimum Tool Switching Instant Problem in Flexible Manufacturing System.” *Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Scheduling*, Honolulu, HI, 43-48.
- Lam, S., Dallard, H., and **Kulturel-Konak, S.**, “A Particle Swarm Optimization Approach for Solving Orienteering Problem.” *Proceedings of the 2006 Industrial Engineering Research Conference (IERC)*, Orlando, FL, CD-ROM format, 6 pages.
- Konak, A. and **Kulturel-Konak, S.**, “Simulation Optimization using Tabu Search: An Empirical Study.” *Proceedings of the 2005 Winter Simulation Conference*, Orlando, FL., 2686-2692.
- **Kulturel-Konak, S.**, Sayin, E., and Alpay, N., “A Collaborative Teamwork Experience Between Industrial Engineering Students of the Middle East Technical University and Business Administration Students of the Pennsylvania State University.” *Proceedings of the 2005 International SEFI Conference*, Ankara, Turkey, 372-379.
- Konak, A., Smith, A.E., and **Kulturel-Konak, S.**, “New Event Driven Sampling Techniques for Network Reliability Estimation.” *Proceedings of the 2004 Winter Simulation Conference*, Washington, DC, 224-231.
- Liang, Y.-C., **Kulturel-Konak, S.**, and Smith, A.E., “Metaheuristics for the Orienteering Problem.” *Proceedings of the 2002 IEEE Congress on Evolutionary Computation*, Honolulu, HI, 384-389.

- **Kulturel-Konak, S.**, Konak, A., and Smith, A.E., “Minimum Cost 2-Edge-Connected Steiner Graphs in Rectilinear Space: An Evolutionary Approach.” *Proceedings of the 2000 IEEE Congress on Evolutionary Computation*, San Diego, CA, 97-103.

BOOK SECTIONS

- **Kulturel- Konak, S.**, Maurer, C.R., and Lohin, D.L. (2012). “Teaching Students How to Effectively Work in Virtual Teams,” in *Project Management Techniques and Innovations in Information Technology*, 127-144, ed. J. Wang, IGI Global, Montclair State University, USA.
- Konak, A., **Kulturel-Konak, S.**, and Smith, A.E., “Two-Edge Disjoint Survivable Network Design Problem with Relays.” in *Operations Research and Cyber-Infrastructure, Operations Research/Computer Science Interfaces Series*, 47, 2009, 279-292, eds. Chinneck, J.W., Kristjansson, B., and Saltzman, M., Springer, New York, USA.
- **Kulturel-Konak, S.** and Konak, A., “A Local Search Hybrid Genetic Algorithm Approach to the Network Design Problem with Relay Stations.” in *Telecommunications Modeling, Policy and Technology*, 311-324, eds. B. Golden, S. Raghavan, and E. Wasil, Springer, New York, USA, 2008.
- **Kulturel-Konak, S.**, Konak, A. and Coit, D.W., “Multiobjective Metaheuristic Approaches to Reliability Optimization.” in *Computational Intelligence in Reliability Engineering: Evolutionary Techniques in Reliability Analysis and Optimization*, Studies in Computational Intelligence: 39, 37-62, ed. G. Levitin, Springer, Berlin/Heidelberg, 2007.
- Dengiz, O., Konak, A., **Kulturel-Konak, S.**, Smith, A.E., and Nettleship, I., “Neural Computing Approach to Shape Change Estimation in Hot Isostatic Pressing.” in *Adaptive Computing in Design and Manufacture V*, 171-180, ed. I.C. Parmee, Springer-Verlang, London, 2002.

NON-REFEREED PROCEEDINGS

- **Kulturel, S.**, Ozdemirel, N. E., and Sepil, C., “Surekli gozden gecirmeli envanter politikasi ile calisan otomatik depolama bosaltma sistemlerinde paylasimci depolama politikalarinin deneyisel incelenmesi (in Turkish),” *Proceedings of the 1996 Turkish Operational Research Society Conference*, Istanbul, Turkey, 254-257.

MANUSCRIPTS UNDER REVIEW

- Konak, A., **Kulturel-Konak, S.** and Snyder, L., “A Game-Theoretic Genetic Algorithm for the Reliable Server Assignment Problem under Attacks.” *Computers and Industrial Engineering*.
- **Kulturel-Konak, S.** and Konak, A., Okudan Kremer, G., Esparragoza, I., “Professional Skills Assessment: Is a Model of Domain Learning Framework Appropriate?” *International Journal of Quality Assurance in Engineering and Technology Education*.

SEMINAR / WORKSHOP SPEAKER

- Seminar Series, Department of Business Information Systems, Chu Hai College, Hong Kong, July 17, 2014.
“A Hybrid Simulated Annealing Approach to the Cyclic Facility Layout Problem”
- Seminar Series, Department of Civil Engineering, University of Hong Kong, July 10, 2014.
“Game Theoretic Genetic Algorithms to Solve Network Server Assignment Problem Considering Attacks”
- Seminar Series, Department of Industrial Engineering, Hong Kong Science and Technology University, July 2, 2014.
“The Network Server Assignment Problem Considering Attacks- A Game Theoretic Genetic Algorithm Approach”
- Seminar Series, Industrial Engineering Department, Rutgers University, March 11, 2014.
“Linear Programming Based Genetic Algorithm for the Unequal Area Facility Layout Problem”
- Seminar Series, Department of Systems Engineering and Engineering Management, Chinese University of Hong Kong, August 6, 2013.
“An Integration of Linear Programming and Genetic Algorithms to Solve Facility Layout Problem”
- Seminar Series, Department of Industrial Engineering, Hong Kong Science and Technology University, August 2, 2013.
“A Novel Hybrid Approach for the Unequal Area Facility Layout Problem”
- Seminar Series, Department of Industrial Engineering, City University of Hong Kong, July 22, 2013.
“Solving the Unequal Area Facility Layout Problem: An Effective Hybrid Optimization Strategy Coupled with the Location/Shape Representation”
- Seminar, The Entrepreneurship Center, Chinese University of Hong Kong, July 16, 2013
“Entrepreneurship Education in Penn State Berks”
- Workshop on Woman in Industrial Engineering Academia Turkey-U.S., and the Middle East, Istanbul, Turkey, May 31, 2012
“Implementing and Sustaining International Collaborations – Best Practices”
- Seminar Series, Department of Graph Theory and Combinatorial Optimization, Laboratoire de Recherche en Informatique (LRI), Université Paris Sud, October 25, 2011
“A Hybrid Linear Programming and Genetic Algorithm Approach to the Unequal Area Facility Layout Problem”
- Coopers Industries Seminar Series, Department of Industrial and Systems Engineering, Auburn University, AL, September 2, 2011
“Unequal Area Facility Layout Problem with Relaxed Flexible Bays by Probabilistic Tabu Search”

- Seminar Series, Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong, July 18, 2011
“A Linear Programming Embedded Probabilistic Tabu Search for the Unequal-Area Facility Layout Problem with Flexible Bays”
- Women's International Research Engineering Summit (WIRES2) in Orlando, FL, March 31-April 2, 2011
“Building and Sustaining Effective Networks”
- Small Wins NSF Workshop on Post-tenure Pathways, Auburn University, AL, May 18-19, 2010
“Leadership Development Opportunities for Tenured Faculty”
- STEM Transformation through Small Wins NSF Workshop, Auburn University, AL, May 18-19, 2009
“Engaging Undergraduate Students in Research”

FUNDED RESEARCH PROJECTS

External

- *A Modular Assessment Framework for Professional Skills Using a Model of Domain Learning Approach*, PI, **NSF Grant (\$199,866)**, May 2012-April 2015.
- *Internationalizing Entrepreneurship Education Program (IEEP)*, PI, **National Collegiate Inventors and Innovators Alliance (NCIIA) Course and Program Grant (\$31,700)**, July 2010-August 2015.
- *Exploration of a Collaborative Virtual Computer Laboratory (CVCLAB) to Enhance Distance Learning in Information Security*, co-PI, **NSF Grant (\$154,151)**, October 2011-September 2014.
- *Exploration of the Effects of Race, Ethnicity and Socio-economic Class on Gender Stereotyping of STEM Disciplines*, co-PI, **NSF Research Opportunity Award (ROA) (\$38,058)**, April 2009-August 2013.
- *Collaborative Research: Enhancing Learning Experiences in Partially Distributed Teams*, co-Principal Investigator (co-PI), **National Science Foundation (NSF)- Division of Undergraduate Education (DUE) Grant: (\$115,055)**, January 2008-December 2009.

Internal

- *Game Theoretic Genetic Algorithms*, **Faculty Research Development Grant: (\$2,500)**, Penn State Berks, Summer 2014.
- *Location Shape Representation for the Cyclic Facility Layout*, **Faculty Research Development Grant: (\$2,000)**, Penn State Berks, Summer 2013.

- *Location Shape Representation for the Cyclic Facility Layout*, **Faculty Research Development Grant: (\$2,000)**, Penn State Berks, Summer 2013.
- *Model of Domain Learning*, **Faculty Research Development Grant: (\$2,400)**, Penn State Berks, Summer 2012.
- *Mentoring Millennials*, **Faculty Project Fund (\$1,500)**, Penn State Berks, Spring 2012.
- *Electronic waste issues in Kenya*, **Travel Grant: (\$4,500)**, Penn State- University Office of Global Programming, Fall 2010.
- *Dynamic Facility Layout*, **Faculty Research Development Grant: (\$2,400)**, Penn State Berks, Summer 2010.
- *Review of Gender Differences in Learning Styles: Suggestions for Information Technology Education*, **Undergraduate Research Grant: (\$500)**, Penn State Berks, Summer 2010.
- *Building Student Learning Objectives and Assessment Tools for the New Entrepreneurship Minor*, **Planning, Research and Assessment Office Grant: (\$2,000)**, Penn State Berks, Spring 2010.
- *Building Student Learning Objectives and Assessment Tools for the New Entrepreneurship Minor*, **Planning, Research and Assessment Office Grant: (\$2,800)**- Penn State Berks, Spring 2009.
- *Artificial Immune Systems Approach for Facility Layout*, **Faculty Research Development Grant- Faculty Research Development Grant: (\$3,000)**, Penn State Berks, Summer 2009.
- *Assessing the Role of teaching and the impact of learning environment in shaping the engagement of women with Information Sciences and Technology*, **Faculty Research Development Grant: (\$2,500)**, Penn State Berks, Summer 2008.
- *Assessing the Role of Teaching and the Impact of Learning Environment in Shaping the Engagement of Women with Information Sciences and Technology*, **Undergraduate Research Grant: (\$500)**, Penn State Berks, Spring 2008.
- *Assessing the Role of teaching and the impact of learning environment in shaping the engagement of women with Information Sciences and Technology*, **Faculty Research Development Grant: (\$2,500)**, Penn State Berks, Summer 2007.
- *Assessing the Role of Teaching and the Impact of Learning Environment in Shaping the Engagement of Women with Information Sciences and Technology*, **Undergraduate Research Grant (\$500)**, Penn State Berks, Spring 2007.
- *Teaching and Learning Project Management with Virtual Teams*, **Faculty Research Development Grant: (\$2,500)**, Penn State Berks, Summer 2006.
- *Teaching and Learning with Virtual Teams*, **Undergraduate Research Grant (\$300)**, Penn State Berks, Spring 2006.
- *Minimizing the Number of Tool Switching Instants in Flexible Manufacturing Systems*, **Faculty Research Development Grant (\$2,000)**, Penn State Berks, Summer 2005.

- *Women in Information Science Programs, Undergraduate Research Grant (\$500)*, Penn State Berks-Lehigh Valley College, Fall 2004.
- *Optimally Locating Input/Output (I/O) Points in Facility Design, Faculty Research Development Grant: (\$2,500)*, Penn State Berks-Lehigh Valley College, Summer 2004.
- *Optimal Design of Industrial Facilities, Faculty Research Development Grant: (\$2,000)*, Penn State Berks-Lehigh Valley College, Summer 2003.
- *Locating Input/Output (I/O) Points in the Optimal Facility Layout Design, Undergraduate Research Grant (\$500)*, Penn State Berks-Lehigh Valley College, Spring 2003.

MEDIA COVERAGE

- “Your Chamber: Leading Businesses, Leading Communities” *BCTV Live Show*, February 10, 2011.
- “Milking the Rhino,” *Blue and White*, Winter 2011-2012, 15(2), 8-9.
- “Students Travel to Kenya to Teach Environmental Sustainability,” *Merchandise*, September 7, 2011, 152(41), 1.
- “Artificial Immune Systems Increase Efficiency,” *Research at Penn State Berks*, Winter 2010, 8.
- “Penn State Berks Professors Learn Efficiency from Ants,” *Reading Eagle*, October 14, 2008.
- “Optimization, Nature’s Way,” *Research at Penn State Berks*, Spring 2008, 7-8.
- “Allocating Redundant Resources,” *Research Reports-Executive Summaries on Current Studies, Industrial Engineer (IE)*, 2003, 35(6), 52-53.

RESEARCH STUDENTS

Post-Doc

Dr. Berna Ulutas, Assistant Professor of Industrial Engineering, Osmangazi University, Ankara, Turkey. May 2009 - May 2010 (funded by the TUBITAK, Scientific and Technical Research Council of Turkey). “Artificial Immune Systems Applied to Facility Layout Problems.”

Undergraduate Research

Supervised over 50 Business and Information Sciences and Technology undergraduate students in different topics, and their studies were presented in various Undergraduate Research Conferences. (Fall 2004- present)

TEACHING EXPERIENCE

Courses Redesigned and Taught:

MGMT 425- New Venture Creation
IST 302WD- Information Technology Project Management (Online)
SEEM 3450- Engineering Innovation and Entrepreneurship (Chinese University of Hong Kong- International Summer School)
SEEM 3530- Engineering and Technology Management (Chinese University of Hong Kong- International Summer School)
ENGR 497A- Entrepreneurship Capstone
ENGR 310- Entrepreneurial Leadership
ENTR 497A- Recycling and Product Development in Kenya
MIS 204- Management Information Systems
SCM 200- Business Statistics
IST 302- Information Technology Project Management
BA 421- Project Management
PSU 05- First Year Seminar- Career Toolkit and Entrepreneurship
BA 297- Special Studies
BA 495C- Research Internship

SELECTED SERVICE TO THE PROFESSION

- **President**, INFORMS Society of Transportation Science and Logistics (TSL)-Facility Logistics, January 2014- January 2016
- **Vice President**, INFORMS Society of Transportation Science and Logistics (TSL)-Facility Logistics, January 2012- January 2014
- **Organizing Committee Member**, Business Idea Challenge by the Greater Reading Chamber of Commerce- Keystone Innovation Zone, January- April 2011
- **President**, INFORMS Forum on Women in Operations Research and Management Science (WORMS), March 2010- March 2011
- **President-Elect**, WORMS, March 2009- March 2010
- **Senior Vice President of Communications**, WORMS, March 2007- March 2008
- **Junior Vice President of Communications**, WORMS, March 2006- March 2007
- **Program Committee Member**, IEEE Symposium Series on Computational Intelligence 2014 (SSCI 2014), Congress on Evolutionary Computation (CEC) 2005, 2006, 2007 Annual Meetings Program
- **Assistant Newsletter Director**, The Institute of Industrial Engineers (IIE)-Reading Chapter, September 2006- present
- **Editorial Board Member**
 - Engineering Optimization
 - International Journal of Information Technology Project Management

- International Journal of Business Analytics
- **Session and Cluster Organizers** for INFORMS and ISERC Annual Meetings
- **Referee** for the IEEE Transactions on Reliability, Journal of Heuristics, IIE Transactions, International Journal of Production Research, International Journal of Production Economics, Engineering Optimization, Asian-Pacific Journal of Operational Research, Reliability Engineering and System Safety, Computers and Industrial Engineering, Production and Operations Management, Computational Optimization and Applications, Journal of Stochastic Analysis and Applications, Conference on Evolutionary Computation, Winter Simulation Conference, etc.

SELECTED SERVICE TO THE UNIVERSITY

- College Sabbatical Leave Committee
- College Promotion and Tenure Committee
- Division Promotion and Tenure Committee
- Senate
 - Physical Facilities Committee
 - Faculty Affairs Committee
- Founding Coordinator of Entrepreneurship and Innovation Minor
- Founding Director of Center for Entrepreneurship and Economic Development
- Peer Observer
- Penn State Berks Chancellor Search Committee
- Engineering Business and Computing (EBC) Division Head Search Committee
- Various Faculty Search Committees
- EBC and College Diversity Committees
- Coordinator of EBC Research Interest Group
- Undergraduate Research Conference Program Committee
- National Survey of Student Engagement (NSSE) Data Review Committee
- Strategic Planning Committee

SELECTED AWARDS AND SCHOLARSHIPS

- 2013 Outstanding Research Award, Penn State Berks
- 2012 Outstanding Service Award, Penn State Berks
- 2011 Take-the-Lead Award given by the Girl Scouts of Eastern Pennsylvania
- Phi Kappa Phi and Alpha Phi Mu Honor Societies, April 2002
- Honorable Mention by the Material Handling Education Foundation, Inc., April 2001
- Attended INFORMS Doctoral Colloquium in San Antonio, TX, November 2000
- Turkish Higher Educational Council Scholarship, July 1997
- Physics Award from Scientific and Technical Research Council of Turkey, May 1989

PROFESSIONAL AFFILIATIONS

- INFORMS
- Institute of Industrial Engineers (IIE)

Sadan Kulturel-Konak is a Professor of Management Information Systems and the director of the Flemming Creativity, Entrepreneurship and Economic Development (CEED) Center at Penn State Berks. She received her Ph.D. in Industrial and Systems Engineering from Auburn University. Her research interests are in modeling and optimization of complex systems and robustness under uncertainty with applications to facility layout, reliability, and scheduling. Sadan Kulturel-Konak engages students early in their academic careers by integrating them into introductory engineering and IT classes. Our Faculty Spotlight series highlights educators within the VentureWell network who are catalyzing change in higher education and motivating students to impact the world through STEM innovation. Sadan Kulturel-Konak (Penn State Berks, Reading, Pennsylvania, USA). Gordon W. Cheung (Department of Management and International Business, The University of Auckland, Auckland, New Zealand). Team Performance Management. Peer evaluations play an important part of the assessment of teamwork KSAs, as team members can observe their teammate's performance and behavior that instructors