

# Burak Eksioglu, Ph.D.

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## Leadership Skills

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- Building trust
- Being compassionate
- Providing stability and consistency
- Delegating tasks equitably
- Communicating clearly
- Building teams
- Promoting strong ethics

## Research Expertise and Experience

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### Modelling

- Large-scale linear, nonlinear, integer and stochastic programming
- Markov decision processes, renewal reward processes
- Game theory, systems simulation

### Methodology

- Meta-heuristics, decomposition and approximate solution methods for large-scale optimization
- Dynamic programming, approximate dynamic programming

### Applications

- Resource allocation
- Logistics, transportation, supply chain
- Healthcare optimization

### Software

- Julia, AMPL
- CPLEX, Gurobi, Arena

## Education

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- **Ph.D.**, Industrial and Systems Engineering, University of Florida, Gainesville, FL
- **M.S.**, Engineering Business Management, University of Warwick, Coventry, UK
- **B.S.**, Industrial Engineering, Bogazici University, Istanbul, Turkey

## Employment History

- **University of Arkansas, Fayetteville, AR**  
Department of Industrial Engineering  
*Professor, 2019 - ...*  
*Director, Master of Science in Engineering (MSE) Program, 2023 - ...*  
*Director, Graduate Studies, 2020 - 2023*  
*Director, Center for Excellence in Logistics and Distribution (CELDi), 2020 - 2023*
- **Clemson University, Clemson, SC**  
Department of Industrial Engineering  
*Associate Professor, 2014 - 2019*  
*Director, Undergraduate Studies, 2015 - 2018*
- **Mississippi State University, Starkville, MS**  
Department of Industrial and Systems Engineering  
*Associate Professor, 2009 - 2014*  
*Assistant Professor, 2003 - 2009*  
*Director, National Center for Intermodal Transportation for Economic Competitiveness, 2012 - 2014*  
*Co-Director, National Center for Intermodal Transportation, 2008 - 2012*
- **Cleveland State University, Cleveland, OH**  
Department of Operations Management and Business Statistics  
*Visiting Assistant Professor, 2002 - 2003*
- **University of Florida, Gainesville, FL**  
Department of Industrial and Systems Engineering  
*Instructor, 2000 - 2002*  
*Teaching Assistant, 1997 - 2000*
- **Bilkent University, Ankara, Turkey**  
Department of Management  
*Research Assistant, 1996 - 1997*
- **CSX Transportation, Jacksonville, FL**  
Service Design/Operations Research Group  
*Co-op, May-August, 1998*
- **MarSA KJS Inc, Adana, Turkey**  
Human Resources Department  
*Organization Development Specialist, 1995 - 1996*

## Leadership Roles

### Leadership Programs

- **UARK Leaders Program:** “UARK Leaders — which is offered through the Office of the Provost, the Office of Human Resources and Walton College of Business Executive Education — provides leadership development to a cohort of approximately 20 faculty and staff each year from across campus who are nominated by their supervisors as leaders or rising leaders at the university. Participants receive leadership training from the executive education program that includes a 360 assessment of leadership skills, sessions with executive coaches and trainings focused on different aspects of leadership. Additionally, members of the cohort will work in groups consisting of members from different units who each will meet with a vice chancellor to select action learning projects addressing areas of need at the U of A. Each group will present their solution to the Executive Committee at the culmination of the program.” I was part of the 2021 - 2022 cohort.

## Leadership Roles (continued)

- **TIGERS Advance:** “Transforming the Institution through Gender Equity, Retention and Support, is a National Science Foundation (NSF) funded innovative and systematic institutional transformation approach to reduce gender inequity and all forms of social injustice, and provide opportunities for all faculty, both men and women to advance their careers and enjoy work/life balance as members of Clemson University. The Clemson TIGERS Advance program is the result of a comprehensive institutional assessment of the barriers that hinder the recruitment, advancement and retention of Clemson’s women and other underrepresented minority faculty; a thorough assessment of Clemson’s history, culture and climate; an extensive review of lessons learned from other ADVANCE institutions around the country; and the tight integration of social science research with project activities to inform and support institutional transformation.” I completed the **Trailblazers** program of TIGERS Advance which is a year-long, “cohort-based leadership training program that focuses on developing equitable leadership skills.” I was part of the 2017 - 2018 cohort.

## Leadership Positions

- *Director* of the Master of Science in Engineering Program, University of Arkansas, 2023 - ...
- *Director* of Graduate Studies, University of Arkansas, 2020 - 2023
- *Director* of Undergraduate Studies, Clemson University, 2015 - 2018
- *Director*, Center for Excellence in Logistics and Distribution (CELDi), 2020 - 2023
- *Director*, National Center for Intermodal Transportation for Economic Competitiveness, USDOT funded Tier I UTC, 2012 - 2014
- *Co-Director*, National Center for Intermodal Transportation, USDOT funded Title III UTC, 2008 - 2012
- *Associate Editor*, IISE Transactions (flagship journal of our professional society), 2017 - ...
- *Co-Chair*, IISE Annual Conference, New Orleans, LA, 2023
- *Co-Chair*, TSL: Freight Transportation, INFORMS Annual Meeting, Phoenix, AZ, 2023
- *Chair*, INFORMS Prize for Teaching of OR/MS Practice, 2021
- *Chair*, IISE Scholarship Fund Committee, 2019
- *Co-Chair*, INFORMS Computing Society Conference, Austin, TX, 2017
- *President*, IISE Logistics and Supply Chain Division, 2014 - 2015
- *President*, IISE Operations Research Division, 2013 - 2014
- *President*, Turkish Student Association, University of Florida, 1998 - 1999

## Publications

(Names in **bold** are graduate students I advised or co-advised. Underlined names show other student authors.)

### Journal Articles

- **Cengil, F.**, Nagarajan, H., Bent, R., Eksioglu, S. & Eksioglu, B. (2025). Learning to accelerate tightening of convex relaxations of the AC optimal power flow problem. *Computational Optimization and Applications*, (accepted).

- **Cengil, A.B.**, Eksioglu, B., Eksioglu, S., Eswaran, H., Hayes, C. J. & Bogulski, C. A. (2024). Using data analytics for telehealth utilization: A case study in Arkansas. *Journal of Telemedicine and Telecare*, 30(10), 1563–1572. doi:<https://doi.org/10.1177/1357633X231160039>
- **Cengil, A.B.**, Eksioglu, S., Eksioglu, B., Eswaran, H., Hayes, C. J. & Bogulski, C. A. (2024). Statistical analysis of telehealth use and insurance coverage pre- and post-pandemic in selected healthcare specialties in a large healthcare system in Arkansas: Comparative cross-sectional study. *Journal of Medical Internet Research*, 26, e49190. doi:<https://doi.org/10.2196/49190>
- **Kiani, M.**, Isik, T., Eksioglu, B. & Pirrallo, R. G. (2024). Dynamic tuberculosis screening for healthcare employees. *Computers & Operations Research*, 169, 106767. doi:<https://doi.org/10.1016/j.cor.2024.106737>
- **Liu, D.**, Eksioglu, B., Schmid, M., Huynh, N. & Comert, G. (2024). Decentralized platoon formation for a fleet of connected and autonomous trucks. *Expert Systems with Applications*, 249(Part B), 1–13. doi:<https://doi.org/10.1016/j.eswa.2024.123650>
- **Best, C.**, Khademi, A. & Eksioglu, B. (2023). Infectious disease control in metapopulations with limited resources. *IIE Transactions on Healthcare Systems Engineering*, 13(1), 62–73. doi:<https://doi.org/10.1080/24725579.2022.2115171>
- **Cengil, F.**, Nagarajan, H., Bent, R., Eksioglu, S. & Eksioglu, B. (2022). Learning to accelerate globally optimal solutions to the AC optimal power flow problem. *Electric Power Systems Research*, 212. doi:<https://doi.org/10.1016/j.epsr.2022.108275>
- **Chang, Y.**, Song, Y. & Eksioglu, B. (2022). A stochastic lookahead approach for hurricane relief logistics operations planning under uncertainty. *Annals of Operations Research*, 319, 1231–1263. doi:<https://doi.org/10.1007/s10479-021-04025-z>
- **Kiani, M.**, Eksioglu, B., Isik, T., Thomas, A. & Gilpin, J. (2022). Evaluating appointment postponement in scheduling patients at a diagnostic clinic. *Naval Research Logistics*, 69, 76–91. doi:<http://doi.org/10.1002/nav.21987>
- **Liu, D.**, Eksioglu, B., Schmid, M., Huynh, N. & Comert, G. (2022). Optimizing energy savings for a fleet of commercial autonomous trucks. *IEEE Transactions on Intelligent Transportation Systems*, 23(7), 7570–7586. doi:<https://doi.org/10.1109/TITS.2021.3071442>
- **Azadi, Z.**, Eksioglu, S. D., Eksioglu, B. & Palak, G. (2019). Stochastic optimization models for joint pricing and inventory replenishment of perishable products. *Computers & Industrial Engineering*, 127, 625–642. doi:<https://doi.org/10.1016/j.cie.2018.11.004>
- **Khademi, A.** & Eksioglu, B. (2018). Spare parts inventory management with substitution-dependent reliability. *INFORMS Journal on Computing*, 30(3), 507–521. doi:<https://doi.org/10.1287/ijoc.2017.0794>
- **Pirim, H.**, Eksioglu, B. & Glover, F. W. (2018). A novel mixed integer linear programming model for clustering relational networks. *Journal of Optimization Theory and Applications*, 176(2), 492–508. doi:<http://dx.doi.org/10.1007/s10957-017-1213-1>
- **Vadlamani, S.**, Schweitzer, D., Medal, H., Nandi, A. & Eksioglu, B. (2018). A mixed-integer programming approach for locating jamming devices in a flow-jamming attack. *Computers & Operations Research*, 95, 83–96. doi:<https://doi.org/10.1016/j.cor.2018.02.020>
- **Rowe, P.**, Eksioglu, B. & Eksioglu, S. D. (2017). Recycling procurement strategies with variable yield suppliers. *Annals of Operations Research*, 249, 215–234. doi:<http://dx.doi.org/10.1007/s10479-015-1872-y>
- Eksioglu, S. D., Karimi, H. & Eksioglu, B. (2016). Optimization models to integrate production and transportation planning for biomass co-firing in coal-fired power plants. *IIE Transactions*, 48(10), 901–920. doi:<http://dx.doi.org/10.1080/0740817X.2015.1126004>

- Emelogu, A., Chowdhury, S., Marufuzzaman, M., Bian, L. & Eksioglu, B. (2016). An enhanced sample average approximation method for stochastic optimization. *International Journal of Production Economics*, 182, 230–252. doi:http://dx.doi.org/10.1016/j.ijpe.2016.08.032
- Tunc, H., Kilic, O.A., Tarim, S. A. & Eksioglu, B. (2016). The stochastic lot sizing problem with piecewise linear concave ordering costs. *Computers & Operations Research*, 65, 104–110. doi:http://dx.doi.org/10.1016/j.cor.2015.07.004
- Vadlamani, S., Eksioglu, B., Medel, H. & Nandi, A.. (2016). Jamming attacks on wireless networks: A taxonomic survey. *International Journal of Production Economics*, 172, 76–94. doi:http://dx.doi.org/10.1016/j.ijpe.2015.11.008
- Pirim, H., Eksioglu, B. & Perkins, A. D. (2015). Clustering high throughput biological data with b-mst, a minimum spanning tree based heuristic. *Computers in Biology and Medicine*, 62, 94–102. doi:http://dx.doi.org/10.1016/j.combiomed.2015.03.031
- Shin, S. & Eksioglu, B. (2015). An empirical study of RFID productivity in the us retail supply chain. *International Journal of Production Economics*, 163, 89–96. doi:http://dx.doi.org/10.1016/j.ijpe.2015.02.016
- Shin, S. & Eksioglu, B. (2014a). Effects of RFID technology on efficiency and profitability in retail supply chains. *Journal of Applied Business Research*, 30(3), 633–646.  http://www.cluteinstitute.com/ojs/index.php/JABR/article/view/8582/8581
- Tunc, H., Kilic, O.A., Tarim, S. A. & Eksioglu, B. (2014). A reformulation for the stochastic lot sizing problem with service-level constraints. *Operations Research Letters*, 42(2), 161–165. doi:http://dx.doi.org/10.1016/j.orl.2014.01.010
- Martagan, T. & Eksioglu, B. (2013). Game theoretic analysis of an inventory problem with substitution, stochastic demand, and uncertain supply. *International Journal of Inventory Research*, 2(1-2), 27–43.  http://www.inderscienceonline.com/doi/abs/10.1504/IJIR.2013.058339
- Tunc, H., Kilic, O.A., Tarim, S. A. & Eksioglu, B. (2013). A simple approach for assessing the cost of system nervousness. *International Journal of Production Economics*, 141(2), 619–625. doi:http://dx.doi.org/10.1016/j.ijpe.2012.09.022
- Pirim, H., Eksioglu, B., Perkins, A. D. & Yuceer, C. (2012). Clustering of high throughput gene expression data. *Computers & Operations Research*, 39(12), 3046–3061. doi:http://dx.doi.org/10.1016/j.cor.2012.03.008
- Capar, I., Eksioglu, B. & Geunes, J. (2011). A decision rule for coordination of inventory and transportation in a two-stage supply chain with alternative supply sources. *Computers & Operations Research*, 38(12), 1696–1704. doi:http://dx.doi.org/10.1016/j.cor.2011.03.007
- Parsa, H., Jin, M., Roni, M.D., Eksioglu, B. & Eksioglu, S. D. (2011). Healthcare inventory and supply chain management: A literature review. *BIOINFO Systems Engineering*, 1(2), 11–19.  http://www.bioinfopublication.org/files/articles/1\_2\_1\_BIOINFO-SE.pdf
- Pirim, H., Gautam, D., Bhowmik, T., Perkins, A., Eksioglu, B. & Alkan, A. (2011). Performance of an ensemble clustering algorithm on biological data sets. *Mathematical and Computational Applications*, 16(1), 87–96. doi:https://doi.org/10.3390/mca16010087
- Tunc, H., Eksioglu, B., Eksioglu, S. D. & Jin, M. (2011). Hub based network design: A review. *International Journal of Networking*, 1(2), 17–24.  http://bioinfopublication.org/files/articles/1\_2\_1\_IJNET.pdf
- Tunc, H., Kilic, O.A., Tarim, S. A. & Eksioglu, B. (2011). The cost of using stationary inventory policies when demand is non-stationary. *Omega*, 39(4), 410–415. doi:http://dx.doi.org/10.1016/j.omega.2010.09.005

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- Eksioglu, S. D., Eksioglu, B., Walden, C. T., Jin, M. & Acharya, A. (2010). Automotive distribution network design: A support system for transportation infrastructure decision makers. *International Journal of Business and Systems Research*, 4(4), 379–401.  
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- Jin, M. & Eksioglu, B. (2010). Optimal routing of vehicles with communication capabilities in disasters. *Computational Management Science*, 7(2), 121–137.  
doi:<http://dx.doi.org/10.1007/s10287-008-0079-y>
- Jin, M., Eksioglu, S. D., Eksioglu, B. & Wang, H. (2010). Mode selection for automotive distribution with quantity discounts. *Networks and Spatial Economics*, 10(1), 1–13.  
doi:<http://dx.doi.org/10.1007/s11067-007-9020-0>
- Eksioglu, B., Vural, A.V. & Reisman, A. (2009). The vehicle routing problem: A taxonomic review. *Computers & Industrial Engineering*, 57(4), 1472–1483.  
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- Eksioglu, B., Eksioglu, S. D. & Jain, P. (2008). A tabu search algorithm for the flowshop scheduling problem with changing neighborhoods. *Computers & Industrial Engineering*, 54(1), 1–11.  
doi:<http://dx.doi.org/10.1016/j.cie.2007.04.004>
- Eksioglu, B., Jin, M., Capar, I., Zhang, Z. & Eksioglu, S. D. (2008). Highway traffic management in incidents of national significance. *Journal of Emergency Management*, 6(1), 23–36.  
doi:<https://doi.org/10.5055/jem.2008.0002>
- Jin, M., Liu, K. & Eksioglu, B. (2008). A column generation approach for the split delivery vehicle routing problem. *Operations Research Letters*, 36(2), 265–270.  
doi:<http://dx.doi.org/10.1016/j.orl.2007.05.012>
- Willers, J., Jin, M., Eksioglu, B., Zusmanis, A., O'Hara, C. & Jenkins, J. (2008). A post-processing step error correction algorithm for overlapping LiDAR strips from agricultural landscapes. *Computers and Electronics in Agriculture*, 64(2), 183–193.  
doi:<http://dx.doi.org/10.1016/j.compag.2008.04.013>
- Eksioglu, S. D., Eksioglu, B. & Romeijn, H. E. (2007). A lagrangean heuristic for integrated production and transportation planning problems in a dynamic, multi-item, two-layer supply chain. *IIE Transactions*, 39(2), 191–201. doi:<http://dx.doi.org/10.1080/07408170600733244>
- Jin, M., Liu, K. & Eksioglu, B. (2006). Routing with early ordering for just-in-time manufacturing. *Lecture Notes in Computer Science*, 3982, 748–756. doi:[http://dx.doi.org/10.1007/11751595\\_79](http://dx.doi.org/10.1007/11751595_79)
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- Agca, S., Eksioglu, B. & Ghosh, J. B. (2000). Lagrangian solution of maximum dispersion problems. *Naval Research Logistics*, 47(2), 97–114. doi:[http://dx.doi.org/10.1002/\(SICI\)1520-6750\(200003\)47:2<97::AID-NAV2>3.0.CO;2-2](http://dx.doi.org/10.1002/(SICI)1520-6750(200003)47:2<97::AID-NAV2>3.0.CO;2-2)

## Conference Proceedings



- **Uhorchak, N.,** Proano, R., Eksioglu, S., **Cengil, F.** & Eksioglu, B. (2024). Pediatric vaccine tender scheduling in low- and middle-income countries. In *Proceedings of the Annual IISE Conference*, Montreal, Canada.
- **Liu, D.,** Eksioglu, B., Schmid, M., Huynh, N. & Comert, G. (2020). Simulation-optimization platooning model for a fleet of autonomous trucks. In *Proceedings of the Annual IISE Conference*, New Orleans, LA.
- Schmid, M., **Liu, D.,** Eksioglu, B., Huynh, N. & Comert, G. (2020). Prediction model for energy consumption in heavy-duty vehicle formations. In *Proceedings of the Annual IISE Conference*, New Orleans, LA.
- Choudhury, A. & Eksioglu, B. (2019). Using predictive analytics for cancer identification. In *Proceedings of the Annual IISE Conference*, Orlando, FL.
- Sarder, M., Rahman, M. & Eksioglu, B. (2014). Risk based hazmat routing in a supply chain network. In *Proceedings of the Industrial Engineering Research Conference*, Montreal, Canada.
- **Shin, S.** & Eksioglu, B. (2014b). RFID adoption and productivity growth in us retail supply chains. In *Proceedings of the 20<sup>th</sup> Americas Conference on Information Systems*, Savannah, GA.
- **Vadlamani, S.,** Meda, H., Eksioglu, B. & Li, P. (2014). A bi-level programming model for the wireless network jamming placement problem. In *Proceedings of the Industrial Engineering Research Conference*, Montreal, Canada.
- **Shin, S.** & Eksioglu, B. (2013). Effects of RFID technology on profitability and efficiency in retail supply chains. In *Proceedings of the 19<sup>th</sup> Americas Conference on Information Systems*, Chicago, IL.
- **Tunc, H.** & Eksioglu, B. (2013). A reformulation for static-dynamic uncertainty strategy under service level constraints. In *Proceedings of the IFAC Conference on Manufacturing Modelling, Management, and Control*, Saint Petersburg, Russia.
- Nash, K., Zhang, H., Young, G., Legett, H., Strawderman, L. & Eksioglu, B. (2011). An intermodal transportation training program for disaster relief agencies. In *Proceedings of the Industrial Engineering Research Conference*, Reno, NV.
- **Tunc, H.,** Eksioglu, B. & Eksioglu, S. D. (2011). Optimizing the use of transit system with information updates during no-notice evacuations. In *Proceedings of the Industrial Engineering Research Conference*, Reno, NV.
- **Pirim, H.,** Gautam, D., Bhowmik, T., Perkins, A. & Eksioglu, B. (2010). Performance evaluation of a community structure finding algorithm using modularity and c-rand measures. In *Proceedings of IEEE World Congress on Computational Intelligence*, Spain.
- **Pirim, H.,** Gautam, D., Bhowmik, T., Perkins, A., Eksioglu, B. & Alkan, A. (2010). Performance of an ensemble clustering algorithm on biological data sets. In *Proceedings of International Symposium on Computing in Science and Engineering*, Aydin, Turkey.
- **Martagan, T.G.** & Eksioglu, B. (2009). Simulation optimization for re-routing shipments during crisis conditions at ports. In *Proceedings of the Huntsville Simulation Conference*, Huntsville, AL.
- **Martagan, T.G.,** Eksioglu, B., Eksioglu, S. D. & Greenwood, A. G. (2009). A simulation model of port operations during crisis conditions. In *Proceedings of the Winter Simulation Conference*, Austin, TX.
- **Pirim, H.** & Eksioglu, B. (2009). An axiomatic design for modeling biological systems. In *Proceedings of the International Conference on Axiomatic Design*, Lisbon, Portugal.
- Zhang, H., Strawderman, L., Jackson, B., Kolb, B. & Eksioglu, B. (2009). Investigating decision criteria regarding intermodal transportation in humanitarian supply chains. In *Proceedings of the Industrial Engineering Research Conference*, Miami, FL.
- Eksioglu, B., Jin, M., **Capar, I.** & Zhang, Z. (2007). Highway traffic management in incidents of national significance. In *Transportation Research Board*, Washington, DC.

- Jin, M. & Eksioglu, B. (2007). Logistics management of upholstered furniture industry. In *International Conference on Upholstered Furniture Manufacturing and Standards*, Shanghai, China.
- Jin, M., Eksioglu, S. D., Eksioglu, B. & Wang, H. (2007). Mode selection for automotive distribution with quantity discounts. In *Transportation Research Board*, Washington, DC.
- Jin, M., Liu, K. & Eksioglu, B. (2007). A column generation algorithm for the vehicle routing problem with split delivery. In *Proceedings of the Industrial Engineering Research Conference*, Nashville, TN.
- Eksioglu, B., **Jain, P.** & Eksioglu, S. D. (2006). A heuristic approach for the flowshop problem with due dates and release times. In *Proceedings of the Multi-conference on Systemics, Cybernetics and Informatics*, Orlando, FL.
- **Capar, I.** & Eksioglu, B. (2005). Coordinated inventory and transportation decisions in a two-stage supply chain with alternative supply sources. In *Proceedings of the 35<sup>th</sup> International CIE Conference*, Istanbul, Turkey.
- Duffy, V., Jin, M., Eksioglu, B., **Yu, Q.**, Kang, J. & Du, C.J. (2005). Virtual design optimization tool for improved human-robot interaction. In *Proceedings of the HCI International Conference*, Las Vegas, NV.
- Greenwood, A., Hill, T., Miller, J.W., Vanguri, S., Eksioglu, B., **Jain, P.** & Walden, C. (2005). Simulation optimization decision support system for ship panel shop operations. In *Proceedings of the Winter Simulation Conference*, Orlando, FL.
- **Vural, A.V.**, Catay, B. & Eksioglu, B. (2005). A dual GA approach to capacitated vehicle routing problem with simultaneous pick-up and deliveries. In *Proceedings of the Industrial Engineering Research Conference*, Atlanta, GA.
- **Capar, I.** & Eksioglu, B. (2004). Inventory and transportation decisions in a two-stage supply chain. In *Proceedings of the Industrial Engineering Research Conference*, Houston, TX.
- Eksioglu, B. (2004). Approximate solutions to production-inventory-distribution problems. In *Proceedings of the Industrial Engineering Research Conference*, Houston, TX.
- Li, K. & Eksioglu, B. (2004). Integrating service into supply chains. In *Proceedings of the Industrial Engineering Research Conference*, Houston, TX.
- **Vural, A.V.** & Eksioglu, B. (2004). A tabu search based meta-heuristic for the capacitated vehicle routing problem with simultaneous pick-ups and deliveries. In *Proceedings of the Industrial Engineering Research Conference*, Houston, TX.

## Books and Chapters

- **Uhorchak, N.**, Eksioglu, B., Proano, R. A., Eksioglu, S. & **Cengil, F.** (2025). Vaccine tender scheduling and procurement: A taxonomic review. In *Reference module in social sciences*. doi:<https://doi.org/10.1016/B978-0-443-28993-4.00152-9>
- **Vadlamani, S.**, Medal, H. & Eksioglu, B. (2014). Security in wireless networks: A tutorial. In S. Butenko, E. Pasiliao & V. Shylo (Eds.), *Examining robustness and vulnerability of networked systems* (pp. 272–288). IOS Press.
- Eksioglu, B. (Ed.). (2012). *Emergency management*. InTech Publishing.
- **Capar, I.** & Eksioglu, B. (2009a). Continuous review inventory models: (Q,R) policy. In C. Floudas & P. Pardalos (Eds.), *Encyclopedia of optimization* (3, pp. 501–505). Kluwer Academic Publishers.
- **Capar, I.** & Eksioglu, B. (2009b). Supply chain performance measurement. In C. Floudas & P. Pardalos (Eds.), *Encyclopedia of optimization* (19, pp. 3884–3889). Kluwer Academic Publishers.
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- Vural, A.V. & Eksioglu, B. (2009a). Static resource constrained project scheduling. In C. Floudas & P. Pardalos (Eds.), *Encyclopedia of optimization* (19, pp. 3704–3708). Kluwer Academic Publishers.
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- Pirim, H., Bayraktar, E. & Eksioglu, B. (2008). Tabu search: A comparative study. In J. Wassim (Ed.), *Local search techniques: Focus on tabu search* (pp. 5–28). InTech Publishing.
- Eksioglu, B., Eksioglu, S. D. & Pardalos, P. M. (2003). Solving large scale fixed charge network flow problems. In P. Daniele, A. Maugeri & F. Giannesi (Eds.), *Equilibrium problems and variational models* (pp. 163–183). Kluwer Academic Publishers.
- Eksioglu, B., Pardalos, P. M. & Migdalas, A. (2003). Heuristic approaches to production-transportation-inventory problems in supply chains. In P. Pardalos & V. Korotkikh (Eds.), *Optimization and industry: New frontiers* (pp. 15–37). Kluwer Academic Publishers.

## Funded Research

**Total funding:** ~ \$29M

**Total share:** ~ \$8.5M

- Title: An Analysis of Resource Utilization at Telehealth Providers in the US  
Sponsor(s): University of Arkansas Medical School (UAMS)  
Investigator(s): B. Eksioglu (PI, 50%), S.D. Eksioglu  
Amount and Duration: \$50K, 1/1/24 – 12/31/24
- Title: Supply Chain Analysis for a Food Distributor  
Sponsor(s): Powering Forward LLC  
Investigator(s): B. Eksioglu (PI, 100%)  
Amount and Duration: \$25K, 6/1/21 – 12/31/21
- Title: Broadband for Telemedicine  
Sponsor(s): University of Arkansas Medical School (UAMS)  
Investigator(s): B. Eksioglu (PI, 50%), S.D. Eksioglu  
Amount and Duration: \$7K, 6/1/21 – 12/31/21
- Title: Integrated Housing Design and Logistics for Disaster Relief  
Sponsor(s): US Endowment, Weyerhaeuser Foundation, Perkins + Will  
Investigator(s): B. Eksioglu (PI, 50%), Y. Song  
Amount and Duration: \$50K, 1/1/19 – 12/31/19
- Title: Framework for Accommodating Emerging Autonomous Vehicles  
Sponsor(s): Center for Connected Multimodal Mobility (C<sup>2</sup>M<sup>2</sup>)  
Investigator(s): B. Eksioglu (PI, 34%), M. Schmid, G. Comert, N. Huynh  
Amount and Duration: \$136K, 1/1/19 – 12/31/19
- Title: Seed Grant for Proposal Development  
Sponsor(s): SC EPSCoR IDeA  
Investigator(s): B. Eksioglu (co-PI, 50%), P.M. Murray-Tuite  
Amount and Duration: \$7K, 11/1/18 – 1/30/19
- Title: Transformative Initiative for Generating Extramural Research (TIGER) Grant  
Sponsor(s): College of Engineering and Science, Clemson University  
Investigator(s): B. Eksioglu (PI, 100%)  
Amount and Duration: \$15K, 1/1/15 – 12/31/15

## Funded Research (continued)

- Title: Decision Support System: integrating stakeholder perspectives in large-scale prototyping projects  
Sponsor(s): Engineering Research and Development Center (ERDC), US Army  
Investigator(s): B. Eksioglu (co-PI, 18%), T. Garrison, K. Babski-Reeves  
Amount and Duration: \$98K, 1/1/14 – 9/18/14.
- Title: Mission Intermodal Excellence  
Sponsor(s): National Center for Intermodal Transportation and Economic Competitiveness (NCITEC)  
Investigator(s): B. Eksioglu (co-PI, 28%), S.D. Eksioglu, E. Heiselt  
Amount and Duration: \$180K, 7/30/12 – 12/31/14
- Title: Southeastern Transportation Research, Innovation, Development, and Education Center (STRIDE)  
Sponsor(s): U.S. Department of Transportation  
Investigator(s): B. Eksioglu (co-PI, 2%), L. Elefteriadou  
Amount and Duration: \$6.9M, 1/1/12 – 1/31/16
- Title: National Center for Intermodal Transportation and Economic Competitiveness (NCITEC)  
Sponsor(s): U.S. Department of Transportation  
Investigator(s): B. Eksioglu (PI, 80%), L. Zhang, T. White  
Amount and Duration: \$6.9M, 1/1/12 – 1/31/16
- Title: Design of a Hub-based Intermodal Logistics System for Multi-regional Commodity Flow  
Sponsor(s): National Center for Intermodal Transportation (NCIT)  
Investigator(s): B. Eksioglu (PI, 100%)  
Amount and Duration: \$62K, 5/16/11 – 12/31/12
- Title: Cooperative/Collaborative Supply Chain Study,  
Sponsor(s): Lockheed Martin  
Investigator(s): B. Eksioglu (co-PI, 30%), M. Jin, L. Strawderman  
Amount and Duration: \$50K, 8/16/2010 – 12/31/11
- Title: Decision Support Tools for Transportation Resilience and Security  
Sponsor(s): U.S. Department of Transportation  
Investigator(s): B. Eksioglu (PI, 56%), M. Jin  
Amount and Duration: \$712K, 9/14/09 – 12/31/12
- Title: Use of Public Transit Systems during No-Notice Evacuations of Urban Areas  
Sponsor(s): National Center for Intermodal Transportation (NCIT)  
Investigator(s): B. Eksioglu (PI, 63%), S.D. Eksioglu  
Amount and Duration: \$80K, 5/16/09 – 5/15/11
- Title: National Center for Intermodal Transportation (NCIT)  
Sponsor(s): U.S. Department of Transportation  
Investigator(s): B. Eksioglu (PI, 50%), R. Bowden  
Amount and Duration: \$1.5M, 8/16/06 – 5/31/11
- Title: Development of an Intermodal Training Program for Disaster Relief Agencies  
Sponsor(s): National Center for Intermodal Transportation (NCIT)  
Investigator(s): B. Eksioglu (co-PI, 21%), L. Strawderman  
Amount and Duration: \$48K, 8/16/09 – 8/15/10
- Title: Magnolia-1 Small Satellite Program  
Sponsor(s): NASA  
Investigator(s): B. Eksioglu (co-PI, 9%), C. Hill, L. Bruce, C. Olsen, G. Olsen, T. Vizzini, N. Younan  
Amount and Duration: \$11M, 1/9/07 – 12/31/09
- Title: Assured Strategic Communications during Natural and Willful Disasters  
Sponsor(s): U.S. Department of Homeland Security  
Investigator(s): B. Eksioglu (co-PI, 20%), L. Bruce, S.D. Eksioglu, T.J. Jankun-Kelly  
Amount and Duration: \$497K, 3/1/07 – 5/31/08

## Funded Research (continued)

- Title: Inbound Logistics Analysis for Auto Assembly Sites  
Sponsor(s): Mississippi Department of Transportation  
Investigator(s): B. Eksioglu (PI, 52%), S.D. Eksioglu, M. Jin  
Amount and Duration: \$96K, 1/1/07 – 6/30/08
- Title: Simulation Model to Analyze the Impact of Outsourcing on the Performance of the Furniture Supply Chain  
Sponsor(s): U.S. Small Business Administration  
Investigator(s): B. Eksioglu (PI, 40%), S.D. Eksioglu, M. Jin  
Amount and Duration: \$62K, 2/1/07 – 1/31/08
- Title: Intermodal Transportation Systems for Asian Goods to U.S. via Mexico: An Analysis  
Sponsor(s): National Center for Intermodal Transportation (NCIT)  
Investigator(s): B. Eksioglu (PI, 53%), I. Capar, A. Narayanan, M. Natarajathinam  
Amount and Duration: \$43K, 5/1/08 – 8/30/09
- Title: A Simulation Model to Analyze the Impact of Crisis Conditions on the Performance of Port Operations  
Sponsor(s): National Center for Intermodal Transportation (NCIT)  
Investigator(s): B. Eksioglu (PI, 57%), S.D. Eksioglu, A. Myles, A. Allen  
Amount and Duration: \$70K, 5/16/08 – 5/15/09
- Title: The Role of Intermodal Transportation in Humanitarian Supply Chains  
Sponsor(s): National Center for Intermodal Transportation (NCIT)  
Investigator(s): B. Eksioglu (co-PI, 30%), L. Strawderman  
Amount and Duration: \$43K, 5/16/08 – 5/15/09
- Title: GIS for Demonstrating the Current and Alternative Supply Chains for a Furniture Manufacturing Company  
Sponsor(s): U.S. Small Business Administration  
Investigator(s): B. Eksioglu (co-PI, 40%), M. Jin, S. Bullington  
Amount and Duration: \$50K, 7/1/07 – 3/15/08
- Title: Alternate Route Planning  
Sponsor(s): U.S. Department of Homeland Security  
Investigator(s): B. Eksioglu (co-PI, 40%), L. Brown, M. Jin, J. Usher  
Amount and Duration: \$200K, 6/1/05 – 3/14/06
- Title: The Impact of an Intermodal Logistics Center in Meridian to Walmart's Distribution Network in the South  
Sponsor(s): K&S Custom Warehousing Inc.  
Investigator(s): B. Eksioglu (co-PI, 20%), S.D. Eksioglu, M. Jin  
Amount and Duration: \$5K, 4/1/06 – 4/30/06
- Title: Analysis of Mississippi's Intermodal Transportation Infrastructure Relative to Prospective Auto Assembly Sites  
Sponsor(s): Mississippi Department of Transportation  
Investigator(s): B. Eksioglu (co-PI, 28%), S.D. Eksioglu, M. Jin  
Amount and Duration: \$141K, 1/1/06 – 3/15/07
- Title: Error Minimization in Digital Surface Models  
Sponsor(s): U.S. Department of Agriculture  
Investigator(s): B. Eksioglu (co-PI, 40%), M. Jin  
Amount and Duration: \$5K, 9/16/05 – 11/15/05
- Title: Increasing the Confidence in Rocket Engine Test Results with Minimal Cost  
Sponsor(s): Mississippi State University Office of Research  
Investigator(s): B. Eksioglu (PI, 100%)  
Amount and Duration: \$8K, 1/15/05 – 11/15/05

## Courses Taught

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### ■ University of Arkansas

INEG 2313 - Applied Probability and Statistics I  
INEG 3553 - Production Planning and Control  
INEG 5613 - Introduction to Optimization Theory  
INEG 5693 - Heuristics  
INEG 6323 - Advanced Stochastic Processes  
SCMT 3623 - Inventory and Forecasting Analytics  
OPAN 5023 - Applied Prescriptive Analytics

### ■ Clemson University

IE 3800 - Deterministic Operations Research  
IE 3810 - Probabilistic Operations Research  
IE 4530 - Network Flows for IE Applications  
IE 8090 - Modeling Systems under Risk  
IE 8880 - Advanced Probabilistic Models

### ■ Mississippi State University

IE 8990 - Discrete Optimization  
IE 8793 - Heuristics in Optimization  
IE 8753 - Network Flows and Dynamic Programming  
IE 8723 - Operations Research 2  
IE 8353 - Manufacturing Systems Modeling  
IE 4934 - Information Systems for Industrial Engineers  
IE 4733 - Linear Programming  
IE 4713 - Operations Research I  
IE 4623 - Engineering Statistics II  
IE 4543 - Logistics Engineering  
IE 4333 - Production Control Systems I

### ■ Cleveland State University

MBA 603 - Innovation and Technology Management  
OMS 802 - Supply Chain Management  
OMS 412 - Supply Chain Management  
OMS 202 - Business Statistics II

### ■ University of Florida

EGN 1002 - Introduction to Engineering  
EIN 4354 - Engineering Economy  
ESI 4313 - Operations Research II

## Honors and Awards

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2024 ■ IISE Fellow Award

■ INFORMS Senior Member

2020 ■ Modeling and Simulation Division Best Paper Award, IISE

2018 ■ Best Application Paper, IISE Transactions – Scheduling and Logistics

2012 ■ Faculty Research Award, Bagley College of Engineering, Mississippi State University

■ Outstanding Research Paper Award, Department of Industrial and Systems Engineering, Mississippi State University

2011 ■ State Pride Faculty Award, Mississippi State University

2009 ■ Outstanding Research Paper Award, Department of Industrial and Systems Engineering, Mississippi State University

2008 ■ Award for Excellence in the Teaching of Operations Research, Institute for Industrial Engineers (IIE)

■ Certificate of Appreciation, Mississippi State University, IMAGE Program

■ Certificate of Appreciation, Mississippi State University, IIE Regional Conference

■ Outstanding Research Paper Award, Department of Industrial and Systems Engineering, Mississippi State University

## Honors and Awards (continued)

- Nominated for the ECFC Outstanding Research Award, Mississippi State University
- Nominated for the Irvin Atly Jefcoat Excellence in Advising Award, Mississippi State University
- Nominated for the Academy of Distinguished Teachers, Bagley College of Engineering, Mississippi State University
- 2006 ■ Outstanding Research Paper Award, Bagley College of Engineering, Mississippi State University
- 2002 ■ Graduate Student Award for Excellence in Teaching, Department of Industrial and Systems Engineering, University of Florida
- 2001 ■ Tau Beta Pi Engineering Honor Society, University of Florida
- 2000 ■ Doctoral Colloquium, Institute for Operations Research and the Management Sciences (INFORMS)
- Outstanding Academic Achievement by an International Student, University of Florida
- 1999 ■ Outstanding Teaching Assistant Award, University of Florida
- 1998 ■ Award for Academic Achievement by an International Student, University of Florida
- 1994 ■ British Council and Turkish Education Foundation Scholarship
- Honor Degree, Bogazici University

## Professional Activities

- Chair, Freight Transportation and Logistics SIG of INFORMS, 2024 - 2025
- Conference Co-Chair, IISE Annual Conference, 2023
- Cluster Co-Chair, INFORMS Annual Meeting, 2022 – 2025
- Associate Editor, IISE Transactions, 2017 – present
- Panel Review, National Science Foundation (NSF), 2006, 2020, 2021
- Session Chair, IISE Annual Conference, 2005-present
- Conference Co-Chair, 2017 INFORMS Computing Society Conference, Austin, TX
- Scholarship Fund Trustee, Institute for Industrial and Systems Engineering (IISE), 2014 – 2019
- Session Chair, INFORMS Annual Meeting, 2001-present
- Editorial Board Member, International Journal of Engineering Business Management, 2013 – 2020
- Editorial Board Member, The Scientific World Journal, 2013 – 2020
- Scientific Member, International Symposium on Computing in Science and Engineering (ISCSE), 2013
- Dean's Faculty Advisory Team on Research, Bagley College of Engineering, 2013
- Mississippi Freight Advisory Committee Member, Mississippi Department of Transportation, 2013 – 2014
- Faculty Advisor, Alpha Pi Mu Honor Society, Mississippi State University Student Chapter, 2012 – 2014
- Co-Chair, Logistics and Supply Chain Track, ISERC, 2014
- Director, National Center for Intermodal Transportation for Economic Competitiveness, 2012 – 2014
- Co-Chair, Operations Research Track, ISERC, 2012
- President, Logistics and Supply Chain Division, Institute of Industrial Engineers (IIE), 2014 – 2015
- Associate Editor, BIOINFO Operations Research, 2010 – 2014
- Associate Editor, BIOINFO Optimization Theory and Applications, 2010 – 2014
- Associate Editor, BIOINFO Services and Operations Management, 2010 – 2014
- President, Operations Research Division, Institute of Industrial Engineers (IIE), 2013 – 2014
- Co-Director, National Center for Intermodal Transportation, 2008 -2012
- Co-Chair, Engineering Education Track, ISERC, 2009
- Chair, Transportation Working Group, Mississippi State University, 2005-2008
- Session Chair, POMS Annual Meeting, 2007
- Session Coordinator, Conference on Optimization in Supply Chain Management and eCommerce, 2002
- Book review, Prentice Hall
- Senior Member, IISE
- Member, INFORMS, ASEE, POMS

## Professional Activities (continued)

- **Ad hoc Reviewer**, IIE Transactions, Computers and Industrial Engineering, Computers and Operations Research, European Journal of Operational Research, International Journal of Production Economics, International Journal of Production Research, Journal of Combinatorial Optimization, Journal of Global Optimization, Networks, Optimization and Engineering, Production and Operations Management, OMEGA.

## Conference Presentations

- "Optimizing energy savings for a fleet of commercial autonomous trucks," *INFORMS Computing Society Conference*, Tampa, FL, 2022.
- "Simulation-optimization platooning model for of a fleet of autonomous trucks," *IIE Annual Conference (virtual)*, New Orleans, LA, 2020.
- "Prediction model for energy consumption in heavy-duty vehicle formations," *IIE Annual Conference (virtual)*, New Orleans, LA, 2020.
- "Simulation-Optimization Platooning Model for Fuel Savings of a Fleet of Commercial Autonomous Trucks," *C<sup>2</sup>M<sup>2</sup> 3rd Annual Fall Conference*, Clemson, SC, 2019.
- "Dynamic Tuberculosis Test Scheduling for Healthcare Employees," *INFORMS Annual Meeting*, Seattle, WA, 2019.
- "Using Predictive Analytics for Cancer Identification," *IIE Annual Conference*, Orlando, FL, 2019.
- "Evaluating Appointment Postponement in Scheduling Patients at a Diagnostic Clinic," *INFORMS ALIO International Conference*, Cancun, Mexico, 2019.
- "Spare Parts Inventory Management with Substitution-Dependent Reliability," *IIE Annual Conference*, Orlando, FL, 2018.
- "Recycling Procurement Strategies with Variable Yield Suppliers," *26th European Conference on Operational Research*, Rome, Italy, 2013.
- "Effects of RFID on Profitability in Retail Supply Chains," *IIE Applied Solutions Conference*, San Juan, Puerto Rico, 2013.
- "Recycling Procurement Strategies with Variable Yield Suppliers," *International IIE Conference & YAEM*, Istanbul, Turkey, 2013.
- "A new heuristic based approach for hub and spoke network design problem," *1st National Conference on Intermodal Transportation: Problems, Practices, and Policies*, Hampton, VA, 2012.
- "A Minimum Spanning Tree Based Heuristic for Clustering High Throughput Biological Data," *INFORMS Healthcare Conference*, Montreal, Canada, 2011.
- "Optimizing the Use of Transit System with Information Updates during No-Notice Evacuations," *IIE Research Conference*, Reno, NV, 2011.
- "A Minimum Spanning Tree Based Heuristic for Clustering High Throughput Biological Data," *IIE Research Conference*, Reno, NV, 2011.
- "Game Theoretic Analysis of an Inventory Problem with Substitution, Random Demand and Random Yield," *IIE Research Conference*, Cancun, Mexico, 2010.
- "A Decision Rule for Coordination of Inventory and Transportation in a Two-Stage Supply Chain," *POMS Annual Conference*, Orlando, FL, 2009.
- "A Tabu Search Procedure for the Flowshop Scheduling Problem," *IIE Research Conference*, Miami, FL, 2009.
- "Analyzing the Impact of Outsourcing on the Supply Chain of the Furniture Industry in Mississippi," *IIE Research Conference*, Vancouver, Canada, 2008.
- "Highway Traffic Management in Incidents of National Significance," *INFORMS Regional Conference*, College Station, TX, 2008.
- "A Hybrid GRASP-GA Approach to the Capacitated VRPSD," *INFORMS Annual Conference*, Seattle, WA, 2007.
- "A Decision Rule for Coordination of Inventory and Transportation in a Two-Stage Supply Chain," *IIE Research Conference*, Nashville, TN, 2007.
- "Coordination of Inventory and Transportation in a Two-Stage Supply Chain with Alternative Supply Sources," *POMS Annual Conference*, Dallas, TX, 2007.
- "Highway Traffic Management in Incidents of National Significance," *Transportation Research Board Conference*, Washington, DC, 2007.



## Conference Presentations (continued)

- “Routing with Early Ordering for Just-In-Time Manufacturing Systems,” *International Conference on Computational Science and its Applications*, Glasgow, UK, 2006.
- “A Tabu Search Algorithms for the Flowshop Scheduling Problem with Changing Neighborhoods,” *INFORMS Annual Conference*, San Francisco, CA, 2005.
- “Subset Selection in Multiple Linear Regression: A New Mathematical Programming Approach,” *International Computers and Industrial Engineering Conference*, Istanbul, Turkey, 2005.
- “Approximate Solutions to Production-Inventory-Distribution Problems with Fixed Charges,” *IIE Research Conference*, Houston, TX, 2004.
- “A GRASP for Computing Approximate Solutions to Production-Inventory-Distribution Problems,” *INFORMS Annual Conference*, Atlanta, GA, 2003.
- “Heuristic Approaches to Production-Transportation Problems in Supply Chains,” *Conference on Optimization in Supply Chain Management and eCommerce*, Gainesville, FL, 2002.
- “Production-Transportation-Inventory Problems in Supply Chains,” *Institute of Industrial Engineers Regional Conference*, Myrtle Beach, SC, 2002.
- “Fixed Charge Network Flow Problems in Supply Chains,” *INFORMS Annual Conference*, Miami Beach, FL, 2001.
- “Solving Large Scale Fixed Charge Network Flow Problems,” *INFORMS Annual Conference*, San Antonio, Texas, 2000.
- “Lagrangian Solution of Maximum Dispersion Problems,” *INFORMS Annual Conference*, Dallas, TX, 1997.

## Invited Talks

- *Purdue University*, “Quantifying the Benefits of Platooning in Connected and Autonomous Vehicle Environments,” West Lafayette, IN, 2023.
- *University of Texas - Austin*, “Infectious Disease Control in Metapopulations with Limited Resources,” Austin, TX, 2020.
- *Oklahoma State University*, “Infectious Disease Control in Metapopulations with Limited Resources,” Stillwater, OK, 2019.
- *University of South Florida*, “Infectious Disease Control in Metapopulations with Limited Resources,” Tampa, FL, 2019.
- *NC State University*, “Evaluation of substitution policies in multi-period service parts supply chains for low volume, high value components with dissimilar reliability,” Raleigh, NC, 2015.
- *University of Alabama*, “A decision rule for coordination of inventory and transportation in a two-stage supply chain with alternative supply sources,” Tuscaloosa, AL, 2007.

## Student Mentoring

### Dissertation Chair

- 2026 ■ **Nick Uhorchak** (co-chair with S.D. Eksioglu), *Tentative title: Designing an Optimization Model for Vaccine Tendering*, expected graduation May 2026.
- 2024 ■ **M. Fatih Cengil** (co-chair with S.D. Eksioglu), *Learning to Accelerate Globally Optimal Solutions: Applications in the AC Optimal Power Flow Problem*, (Teaching Faculty at Texas A&M University, College Station, TX).
- **A. Betul Cengil** (co-chair with S.D. Eksioglu), *Exploring Telehealth Utilization Through Data Analytics, Statistical Analyses, and Machine Learning Techniques*, (Teaching Faculty at Texas A&M University, College Station, TX).
- 2020 ■ **Mahsa Kiani** (co-chair with T. Isik), *Essays on Tactical and Operational Problems in Healthcare*, (Operations Research Scientist at Cargill, Greenville, SC).
- **Dahui (Kevin) Liu**, *Optimizing Energy Savings for a Fleet of Commercial Autonomous Vehicles via Centralized and Decentralized Platooning Decisions*, (Postdoctoral Associate at Cornell University, Ithaca, NY).
- 2019 ■ **Ceyda Yaba Best** (co-chair with A. Khademi), *Control of Infectious Diseases in a Metapopulation*, (Senior Data Analyst at Universal Service Administrative Co. (USAC), Washington, DC).

## Student Mentoring (continued)

- 2015 ■ **Satish Vadlamani** (co-chair with H. Medal), *Models for wireless network jamming and eavesdropping*, (Director of Data Science at Kenco, Chattanooga, TN).
- 2014 ■ **Paul Rowe**, *Recycling Procurement Strategies with Variable Yield Suppliers*, (Assistant Professor at the University of Louisville, Louisville, KY).
- 2013 ■ **Seungjae Shin**, *Effect of RFID Technology on Profitability, Productivity, and Efficiency in U.S. Retail Supply Chains: Financial Ratio Analysis*, (Professor at Mississippi State University, Meridian, MS).
- **Abdullah Al-Khaled** (co-chair with M. Jin), *Criticality Analysis of Surface Transportation Infrastructures based on Freight Flow Network Optimization*, (Senior Manager of Data Science at Walmart, Nashville, TN).
- 2012 ■ **Huseyin Tunc**, *Replenishment Cycle Inventory Policies with Non-stationary Stochastic Demand*, (Associate Professor at the University of Ankara, Turkey).
- 2011 ■ **Harun Pirim**, *A Minimum Spanning Tree Based Clustering Algorithm for High Throughput Biological Data*, (Assistant Professor at North Dakota State University, Fargo, ND).
- 2010 ■ **Chris Hertzler**, *An Economic Evaluation of Substitution in Multi-period Service and Consumable Parts Supply Chains for Low Volume, High Value Components with Dissimilar Reliability*, (Adjunct faculty at the University of Phoenix, Fremont, CA).
- 2007 ■ **Arif Volkan Vural**, *A Hybrid GRASP-GA Approach to the Capacitated Vehicle Routing Problem with Simultaneous Pick-up and Deliveries*, (Senior Manager of OR and Analytics at Amtrak, Washington, DC).
- **Ismail Capar**, *Coordination of Inventory and Transportation Decisions in a Two-stage Supply Chain*, (Associate Professor at Texas A&M University, College Station, TX).

## Thesis Chair

- 2016 ■ **Naresh Gupta Uppala**, *Modeling and Optimization of Strategic/Tactical Production Planning Problems*, (Industrial Engineer at Lear Corporation, Greenville, SC).
- 2011 ■ **Megha Muire**, *Design of a Tool-Kit Packing Weighing System*, (Quality Engineer at Cummins Inc., Minneapolis, MN).
- 2010 ■ **Tugce Martagan**, *Game Theoretic Analysis of an Inventory Problem with Substitution, Random Demand and Yield*, (Assistant Professor at Eindhoven University of Technology, Netherlands).
- 2007 ■ **Renran Tian**, *Validity and Reliability of Dynamic Virtual Interactive Design Methodology*, (Assistant Professor at Indiana University–Purdue University Indianapolis (IUPUI), Indianapolis, IN).
- 2005 ■ **Pramod Jain**, *Approximate Methods for Solving Flowshop Problems*, (Chief Operating Officer (COO) at Plus-grade, Montreal, Canada).