

Shahab Derhami

Assistant Professor of Business Analytics and Operations
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Education

Publications

Journal papers

1. S. Derhami, & B. Montreuil (2020), [Assessing product availability in omnichannel retail networks](#)

Teaching experience

Instructor

- Auburn University, AL (Fall 2015)
Stochastic Operations Research (98 students, avg. review: 5.0/6.0)
- Business Trading University, Mashhad, Iran (2007)
Operations Management, Production Management
- Azad University, Ilam, Iran (2004-2005)
Inventory Management, Facility Design, Production Planning, Computer Programming in IE

Teaching assistant

Auburn University, AL (2011-2016): Operations Planning and Control, Stochastic Operation Research, Simulation (graduate), Probability and Statistics I, Simulation Modeling and Analysis, Deterministic Operations Research

Honors and awards

- Funding supports to attend the Material Handling Teachers Institute and Future Faculty Symposium, the College Industry Council on Material Handling Education (CICMHE), 2015 and 2017
- Finalist in the INFORMS data mining best student paper for the paper "An integer programming approach for fuzzy rule-based classification systems", 2016
- Honorable award for the poster "A novel optimization approach for data mining: a medical diagnosis case", Graduate Engineering Research Showcase, Auburn University, AL, 2015 (\$1,000)
- Conveyor and Sortation Systems Honor Scholarship, the Material Handling Education Foundation, Inc., 2015 (\$2,000)
- Departmental award for the poster "Optimizing Space Utilization in Block Stacking Warehouses", Graduate Engineering Research Showcase, Auburn University, AL, 2014 (\$500)
- Storage equipment manufacturers association honor scholarship, the Material Handling Education Foundation, Inc., 2012 (\$3,000)
- Auburn University graduate travel grants to attend three conferences, 2014-2016 (\$2,800)
- Graduate teaching assistantship, Auburn University, AL, 2011-2017
- Graduate teaching assistantship, Bu-Ali Sina University, Hamedan Iran, 2005-2006

Computer skills

- **Programming:** Java, Python, MATLAB, Visual Basic, Visual Basic for Application (VBA)
- **Optimization and simulation software:** CPLEX, Gurobi, AnyLogic, Simio
- **Other software:** Microsoft Office, Linux, L^AT_EX

Conference presentations and seminars

- "Inventory planning in interconnected retail networks", INFORMS Annual Meeting, Seattle, WA, 2019
- "A simulation-based approach to estimate demand across retail networks and supply chains of high-value products", IISE Annual Meeting, Orlando, FL, 2018
- "A novel optimization approach for disease diagnosis, poster presentation", 4th Annual Postdoctoral Symposium at Georgia Institute of Technology, Atlanta, GA, 2017

- "Designing space-efficient warehouse layouts", INFORMS Annual Meeting, Houston, TX, 2017
- "An integer programming approach for fuzzy rule-based classification systems", Best data mining student paper competition, INFORMS Annual Meeting, Nashville, TN, 2016
- "Designing layouts for block stacking warehouses", poster presentation, INFORMS Annual Meeting, Nashville, TN, 2016
- "Optimal design for block stacking warehouses", INFORMS Annual Meeting, Nashville, TN, 2016
- "Optimizing space utilization in block stacking warehouses", INFORMS Annual Meeting, Philadelphia, PA, 2015
- "Operations research in data mining: an application to medical diagnosis", INFORMS Annual Meeting, Philadelphia, PA, 2015
- "Optimizing space utilization in designing block stacking warehouses", IIE Annual Meeting, Nashville, TN, 2015
- "Ant colony optimization for work load smoothing in assembly lines", 6th International Industrial Engineering Conference, Tehran, Iran, 2009
- "Using ant colony algorithm to solve multi objective assembly line balancing problem", 2nd International Operation Research Conference, Babolsar, Iran, 2009
- "Solving fuzzy assembly line balancing problem with ant algorithm", 3rd Joint Congress on Fuzzy and Intelligent Systems, Yazd, Iran, 2009

Service to profession

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