

MEHDI DAVOODI

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EDUCATION

Rutgers Business School, Newark and New Brunswick Ph.D. Candidate, Management Science, Supply Chain Management.	<i>Aug 2016 - Present</i>
Sharif University of Technology Ph.D., Industrial Engineering. M.S., Industrial Engineering.	<i>Sep 2003 - Aug 2013</i>
Isfahan University of Technology B.S., Industrial Engineering.	<i>Sept 1998 - Sept 2002</i>

RESEARCH INTEREST

- Inventory Control, Supply Chain Finance, Private Label, Retailing, Distribution Channels,
- Revenue Management, Sustainable Operations Management, Health Care Applications,

EMPLOYMENT

Rutgers Business School • Lecturer of SCM Dept., Non-Tenure Track	<i>Jan 2021 – Present</i>
Rutgers Business School • Lecturer of MSIS Dept.	<i>May 2019 – Present</i>
Rutgers Business School • Teaching Assistant	<i>Aug 2016 – Sep 2020</i>
Bonnychow Logistics (Kalleh Logistics Co.) • Regional Distribution Manager	<i>Jun 2012 – Jun 2014</i>
Aris-Amol (Kalleh Foods Co.) • Senior Data Analyst	<i>Jul 2008 – May 2012</i>
Bahman Automobile Group Co. • Data Analyst	<i>Jun 2004 – Jun 2006</i>
Metra Consulting Engineers Co. • Economic Transportation Specialist.	<i>Jun 2003 – Apr 2004</i>

RESEARCH EXPERIENCE

- **Davoodi, M.**, Al-Monawer, N., Qi, L., “Quality and Brand effects on Supplier Selection for Store Brand Products.” Working paper.
- **Davoodi, M.**, Katehakis, M., Yang, J., “Dynamic Inventory Control with Fixed Setup Cost and Unknown Demand Distribution.” *Operations Research*, forthcoming.
- Al-Monawer, N., **Davoodi, M.**, Qi, L., “Brand and quality effects on introduction of store brand products.” *Journal of Retailing and Consumer Services*, 61 (2021): 102507.
- Al-Monawer, N., **Davoodi, M.**, Qi, L. “Quality and Brand Image Effects on the Competition between Store and National Brands.” *Accepted and presented at the POMS conference, Production and Operations Management Society*, Washington D.C., May 2019.
- **Davoodi, M.**, Al-Monawer, N. “Store Brands and Market Share with Advertising.” *In IISE Annual and Expo 2018, Poster presentation* Orlando, FL. 2018.
- **Davoodi, M.**, Niaki, S. T. A., Torkamani, E. A. “A maximum likelihood approach to estimate the change point of multistage Poisson count processes.” *The International Journal of Advanced Manufacturing Technology*, 77 (5-8), 1443–1464, 2015.
- Torkamani, E. A., Niaki, S. T. A., Aminnayeri, M., **Davoodi, M.** “Estimating the change point of correlated Poisson count processes.” *Quality Engineering*, 26 (2), 182–195, 2014.
- **Davoodi, M.**, Niaki, S. T. A. “Estimating the step-change time of the location parameter in multistage processes using MLE.” *Quality and Reliability Engineering International*, 28(8), 843–855, 2012.
- Niaki, S. T. A., **Davoodi, M.**, Torkamani, E. A. “Change point estimation of location parameter in multistage processes.” *In Proceedings of the World Congress on Engineering* , Vol. 1, 2011.
- Niaki, S. T. A., **Davoodi, M.** “Designing a multivariate—multistage quality control system using artificial neural networks.” *International Journal of Production Research*, 47 (1), 251–271, 2009.
- Akbari Jokar, M.R., Vahdani, H., **Davoodi, M.** “Designing an integrated inventory model for deteriorating items with inventory-dependent demand rate in a multi-echelon supply chain (in Persian).” *Proceedings of Second National Conference on Logistics and Supply Chain*, Tehran, Iran, 2006.

SEMINAR AND CONFERENCE TALKS

- **Davoodi, M.**, Katehakis, M., Yang, J., “Dynamic Inventory Control with Fixed Setup Cost and Unknown Demand Distribution.” *31st European Conference on Operational Research*, Athens, Greece, 11-14 July, 2021.
- **Davoodi, M.**, Katehakis, M., Yang, J., “Dynamic Inventory Control with Fixed Setup Cost and Unknown Demand Distribution.” *Rutgers Supply Chain PhD Showcase*, New Jersey, Feb 2020.
- **Davoodi, M.**, Katehakis, M., Yang, J., “Dynamic Inventory Control with Fixed Setup Cost and Unknown Demand Distribution.” *Rutgers MSIS department Seminar*, New Jersey, Oct 2019.
- Al-Monawer, N., **Davoodi, M.**, Qi, L. “Quality and Brand Image Effects on the Competition between Store and National Brands.” *Production and Operations Management Society Conference*, Washington D.C., May 2019.

- **Davoodi, M.**, Al-Monawer, N. “Store Brands and Market Share with Advertising.” *In IISE Annual and Expo 2018, Poster presentation* Orlando, FL. 2018.
- Niaki, S. T. A., **Davoodi, M.**, Torkamani, E. A. “Change point estimation of location parameter in multistage processes.” *In Proceedings of the World Congress on Engineering* , Vol. 1, London, U.K., July 6-8, 2011.
- **Davoodi, M.**, Niaki STA, Asghari Torkamani E, “Identifying the Change Time of the Rate Parameter of a Multistage Poisson Count Process,” Accepted for Oral Presentation in the 13th Annual Conference of European Network for Business and Industrial Statistics (ENBIS 13), Ankara, Turkey, September 15-19, 2013.
- **Davoodi, M.**, Niaki STA, Asghari Torkamani E. “A Maximum Likelihood Estimation of the Multi-Stage Process Change Point,” In Proceedings of the 9th European Network for Business and Industrial Statistics, Chalmers University, Guthenburg, Sweeden, September 21-23, 2009.

COURSES TAUGHT

Undergraduate

33:799:460 – Introduction to Six Sigma and Lean Manufacturing
 29:799:410 – Service Management
 33:799:310 – Demand Planning and Fulfillment
 33:136:386 – Operations Management
 29:799:470 – Business Intelligence for Supply Chain and Marketing
 33:136:385 – Statistical Method in Business
 33:136:370 – Management Information Systems.
 Operations Research, Inventory Control,
 Motion and Time Study, Engineering Economics Analysis
 Probability and Statistics, Stochastic Models,
 Facility Planning and Layout, Introduction to Programming C++
 Maintenance and Reliability, Microeconomics

Graduate

Quantitative Methods in Management, Project Management

ACADEMIC EXPERIENCE

Rutgers Business School (Non-Tenure Track Position)

Fall 2016 – present

- Instructor, *Statistical Methods in Business*, Fall 2020 – Fall 2021
- Instructor, *Introduction To Six Sigma And Lean Manufacturing*, Spring 2021 – Fall 2021
- Instructor, *Demand Planning and Fulfillment*, Summer 2021
- Instructor, *Operations Management*, Winter 2021
- Instructor, *Service Management*, Fall 2020
- Instructor, *Management Information Systems*, Summer 2019 – Summer 2020
- Instructor, *Business Intelligence for Supply Chain and Marketing*, Spring 2018
- Teaching Assistance, *Service Management*, Fall 2018 to Fall 2020
- Teaching Assistance, *Operation Analysis, Graduate Level*, Spring 2017 to Spring 2020
- Teaching Assistance, *Introduction to Supply Chain*, Fall 2016 to Fall 2017

Karaj Azad University**Fall 2010 - Fall 2014**

- Instructor, *Operations Research*,
- Instructor, *Inventory Control*,
- Instructor, *Motion and Time Study*,
- Instructor, *Probability and Statistics*,
- Instructor, *Engineering Economics Analysis*,

University of Bojnord**Fall 2019**

- Instructor, *Operation Research*,

Industrial Management Institute**Spring 2008 - Fall 2009**

- Instructor, *Quantitative Methods in Management, Graduate Level*,
- Instructor, *Microeconomics, Graduate Level*,
- Instructor, *Operations Research I*,
- Instructor, *Inventory Control I*,
- Instructor, *Engineering Economics Analysis*,

University of Qom**Fall 2007**

- Instructor, *Maintenance and Reliability*,
- Instructor, *Microeconomics*,
- Instructor, *Engineering Economics Analysis*,

Khatam Institution of Higher Education**Fall 2007**

- Instructor, *Project Management, Graduate Level*,

Qazvin Azad University**Spring 2006 - Spring 2007**

- Instructor, *Facility Planning and Layout*,
- Instructor, *Statistics*,
- Instructor, *Project Control*,
- Instructor, *Motion and Time Study*,
- Instructor, *Introduction to Programming C++*,

TECHNICAL STRENGTHS**Programming Languages
Software & Tools**

Python, MATLAB, R, C++
Minitab, GAMS, Tableau, Visio, MS Office, L^AT_EX

SELECTED RELEVANT GRADUATE COURSES

Supply Chain

Supply Chain Modeling and Algorithm;
Facility Planning and Layout;
Inventory Management;
Marketing Models;
Marketing Interfaces;
Revenue Management;
Game Theory.

Optimization

Combinatorial Optimization;
Nonlinear Programming;
Dynamic Programming;
Fundamentals of Optimization in SCM;

Statistics

System Reliability;
Advanced Probability;
Advanced Simulation;
Multivariate Analysis;
Mathematical Statistics.

Stochastic

Stochastic Models;
Stochastic Processes;
Queuing Systems.

Finance

Microeconomic Theory;
Advanced Engineering Economy;
Optimization Methods in Finance.

PROFESSIONAL SERVICE ACTIVITIES

- Reviewer, Computers and Industrial Engineering (CAIE) Journal – Elsevier
- Reviewer, Socio-Economic Planning Sciences – Elsevier
- Reviewer, Industrial Engineering and Operations Management (IEOM)
- Reviewer, Scientia Iranica, International Journal of Science and Technolog
- Reviewer, International Journal of Engineering: Basics, Applications and Aspects

PROFESSIONAL SCIENTIFIC SOCIETIES

- INFORMS (Institute for Operations Research and Management Science)
- IISE (The Institute of Industrial and Systems Engineers)
- ENBIS (European Network for Business and Industrial Statistics)
- IAENG (International Association of Engineers)
- SIAM (Society for Industrial and Applied Mathematics)
- IEEE (The Institute of Electrical and Electronics Engineers)