Sonya Javadi

CONTACT INFORMATION

Işık University. Industrial Engineering Department
Faculty of Engineering and Natural Sciences, Şile. Istanbul
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RESERACH INTERESTS

Methodology: Stochastic Processes, Markov Decision Processes, Dynamic Programming, Statistical Process Control with a particular interest on Multiattribute Poisson Process, Transportation Models.
Application: Engineering problems with a stochastic and randomness approach, Supply Chain Management.

ACADEMIC APPOINTMENT

Işik University, Istanbul, Turkey 2022 - Present
Industrial Engineering Department, Assistant Professor

Doğus University, Istanbul, Turkey 2018 - 2022
Industrial Engineering Department, Assistant Professor

Sabancı University, Istanbul, Turkey 2013-2018
Industrial Engineering Department, Teaching Assistant

EDUCATION

Sabancı University, Istanbul, Turkey 2013-2018
PhD in Industrial Engineering
Thesis Title: ***On the End-of-Life Inventory Problem***
Supervised by Semih Onur Sezer and Hans Frenk

Qazvin Islamic Azad University, Qazvin, Iran 2009-2012
MSc in Industrial Engineering
Thesis Title: ***A Decision Making Model for Monitoring multi-attribute Poisson Processes***
Supervised by Seyed Taghi Akhavan Niaki

Azarbaijan Shahid Madani University, Tabriz, 2003-2007
BSc in Pure Mathematics

ACADEMIC RESEARCH

Journal Articles

S.Javadi, O. Keten, A. İ. Özer and R. Z. Alkan (2024): *The Impact of the COVID-19 Pandemic on Online Grocery Supply Chain Management: A Case Study in Istanbul.* Gazi University Journal of Science, 1-1.

Bora Çekyay, J.B.G Frenk and **S. Javadi** (2023): *On computing the multivariate Poisson probability distribution.* Methodology and Computing in Applied Probability Journal, 25(70).

J. B. G. Frenk, **S. Javadi** and S. O. Sezer (2019): *An optimal stopping approach for the end-of-life inventory problem.* Mathematical Methods of Operations Research (90), 329-363.

J. B. G. Frenk, **S. Javadi**, M. Pourakbar and S. O. Sezer (2018): *An exact static solution approach for the service parts end of life inventory problem.* European Journal of Operational Research 272(2), 496-504.

S. T. A. Niaki, **Sonya Javadi** and M. S. Fallahnezhad (2014): *hybrid root transformation and decision on belief approach to monitor multiattribute Poisson processes.* The International Journal of Advanced Manufacturing Technology (75)-1651-1660.

Sonya Javadi and Seyed Taghi Akhavan Niaki (2013): *New uni-attribute control chart to monitor number of nonconformists.* Journal of Optimization in Industrial Engineering (12)-79-83.

Book Chapter
J.B.G Frenk and **S. Javadi** (2022): *On the principle of Lagrange in optimization theory and its application in transportation and location problems.* Springer chapter book: New Perspectives in Operations Research and Management Science.

Journal Submissions
S. Javadi, B.Gülbenzer1, S.Dikkulak1, B.Tombul1 and Z.Yılmaz1 (2023): *Impact of Fuel Prices on Traffic Flows: A Case Study in Istanbul.* Journal of Traffic and Transportation Research.

Conference
S. Javadi, B.Tombul and Z.Yılmaz1 (2023): *Impact of Fuel Prices on Traffic Behaviours: A Case Study in Istanbul.* International Conference on Optimization and Data Science in Industrial Engineering,Proceeding, 660-670.
Sonya Javadi, Berçin Işık, Yiğit Topoyan, Yaren Balıktay and Berkay Oluç (2022):*Impact Of Logıstic Management For Onlıne Grocery Market On Customer Satısfactıon: A Case Study in Istanbul* accepted at 41. YAEM Conference, Denizli, Turkey.
Sonya Javadi (2019): *A mixed Approach to Monitor Multi-attribute Poisson Processes*, accepted at 39. YAEM Conference, Ankara, Turkey.
Javadi. S and Niaki. STA (2012): *mean monitoring method of multi-attribute Poisson processes using root transformation and decision on beliefs*, accepted as a poster in the 29th Quality and productivity research conference (QPRS), California state university-Long Beach,USA.

SCIENTIFIC PROJECTS

2565 TÜBİTAK-Malta (MCST): *ICT-enabled Bee Foraging Sites and Beekeeper Routes Optimization for Efficient Honey Production*, Researcher. 2023-2025

BAP: *A B2C online transporter model for pharmaceutical industry*, Principle Investigator. 2023-2024

THESIS SUPERVISED

Sheilla Nji Dibe (2023): *Predictive Maintaince Simulation of a Chemical Plant in Cameroon*, MSc.

TEACHING EXPERIENCES

Işik University
Instructor: 2022-Present
- INDE 2051: Engineering Statistics
- INDE 4313: Supply Chain Management
- INDE 4003: Operations Research Modeling Applications
- IE 511: Quantitative Models in SCM

Doğuş University
Instructor: 2018-2022
- IE 303: Game Theory for Engineering
- IE 403: Network Theory
- IE 405: Stochastic Models
- IE 435: Supply Chain Management

Sabancı University
Teaching Assistant: 2013-2018
- IE 302: Stochastic Models in Operations Research
- IE 301:Deterministic Models in Operations Research

- IE 403: Quality Planning and Control MATH 306: Statistical Modeling
- MATH 203: Introduction to Probability and Statistics

HONORS and SCHOLARSHIPS

Full Scholarship (Sabancı University) 2013-2018
Best Teaching Assistant Award (Sabancı University) 2015

Skills

Programming
Python, MATLAB, R, Minitab, Cplex

Languages
Azeri (native), Persian (native) Turkish (advanced), English (advanced)