

# MESUT SAYIN

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## Education

**Ph.D.** Operation Management and Information Systems, Koç University (AACSB accredited)  
Istanbul, Turkey **2014 – 2019**  
Dissertation title: The roaming salesman problem: an application to election logistics  
Advisor: Prof. Dr. Deniz Aksen

**M.Sc.** Information Systems, Middle East Technical University, **2012 – 2013**  
Ankara, Turkey  
Dissertation title: Influence of e-commerce recommender systems on the continuance  
intention of online consumers  
Advisor: Prof. Dr. Sevgi Özkan

**B.Sc.** Computer Engineering, University of Tabriz, Tabriz, Iran **2009 – 2012**

## Academic Experience

Sep 2021 – now **Assistant Professor**  
Management Information Systems,  
School of Business, Ozyegin University, Istanbul, Turkey

Jul 2020 – Sep 2021 **Assistant Professor**  
Operations and Information Systems Management,  
Brunel University London, Brunel Business School, London, UK

Feb 2019 – Jul 2020 **Assistant Professor**  
Department of Business Analytics,  
Istanbul Şehir University, Istanbul, Turkey

Sep 2014 – Feb 2019 **Graduate Research and Teaching Assistant**  
Graduate School of Business, Koç University, Istanbul, Turkey

## Research Interests

Operations Management  
Business Analytics  
Optimization

Data Analysis  
Machine Learning  
Sustainability

## Publications in Refereed Journals

- Büke, B., **Sayin, M.**, & Tanrisever, F. (2024). A dynamic multi-level iterative algorithm for clearing European electricity day-ahead markets: An application to the Turkish market. *Journal of the Operational Research Society*, 1-15.
- Sayin, M.**, Tanrisever, F., Eryarsoy, E., & Şensoy, A. (2023). Managing disease containment measures during a pandemic. *Production and Operations Management*, 32(5), 1362-1379.
- Eryarsoy, E., **Sayin, M.**, & Tanrisever, F. (2023). Models for government intervention during a pandemic. *European Journal of Operational Research*, 304(1), 69-83.
- Sayin, M.**, & Aksen, D. (2021). A multi-start granular skewed variable neighborhood tabu search for the roaming salesman problem. *Applied Soft Computing*, **102**, 107024.
- Sayin, M.**, Aksen, D., & Salhi, S. (2020). Formulation and a two-phase matheuristic for the roaming salesman problem: Application to election logistics. *European Journal of Operational Research*, **280**(2), 656-670.
- Sayin, M.**, Aksen, D., Salhi, S. (2021). Multi-Period Travelling Politician Problem: A Hybrid Metaheuristic Solution Method, *Journal of Operational Research Society*, DOI 10.1080/01605682.2021.1895684
- Sayin, M.**, & Eryarsoy, E. (2021). The Role of Sociodemographic Factors During a Pandemic Outbreak: Aggravators and Mitigators. *Population Review*, **60**(2), 66-88.
- D. Aksen, & **M. Sayin** (2018) “**A periodic traveling politician problem with time-dependent rewards**”, *Operations Research Proceedings*, DOI 10.1007/978-3-319-55702-1\_37.
- M. Sayin**, & S. Özkan (2014) “**Assessing the effect of e-commerce intelligent bots on online consumers' post-adoption behavior**”, *American Academic & Scholarly Research Journal* **6**(4): 163.

## Papers in Revision Round

- Sayin, M.**, & Eryarsoy, E. “Investigating the Mediation Effect of Demographics on the Relationship Between the Mobility Patterns and the Spread Speed of a Pandemic Using SIR and SEM Models: the Case of COVID-19”, *Journal of Operational Research Society*, 2021. Under 2<sup>nd</sup> review.

**Sayin, M., & Ekhtiari, M.** “Immigrants Living in Smart Cities: A Systematic Review of Their Digital Technology Adoption and an Empirical Study on the Adoption of Smart City Applications”, *Journal of Urban Technology*, 2022. *Under 2<sup>nd</sup> review*.

**Sayin, M., Tanrisever, F., & Buke, B.** “European electricity day ahead markets: a review of models and solution methods”, *European Journal of Operational Research*, 2021. (Invited review), *Under 1<sup>st</sup> review*.

## Working Papers

**Sayin, M., & Mansini, R.** “Multi-period roaming salesman problem”, Target Journal: *Management Science*.

**Sayin, M., Tanrisever, F., & Eryarsoy, E.** “Optimizing two-dose vaccination campaign: A time-dependent model”, Target Journal: *European Journal of Operational Research*.

**Sayin, M., & Shiri, D.** “Online optimization models for multi-period roaming salesman problem”, Target Journal: *European Journal of Operational Research*.

## Teaching Experience

- Management Information Systems
- Business Analytics
- Data-Oriented Programming with Python
- Big Data Analytics
- Operations Management
- Supply Chain Management

## Refereed Conference Presentations

- “*Data driven algorithms for debt collection in US*”, Machine learning Big data management Cloud and Computing, Budapest, Hungary, 2023.
- “*A Hybrid Multi-Level Iterative Algorithm for Clearing European Electricity Day-Ahead Markets*”, International Conference on Business Systems and Applications, Seoul, South Korea, 2023.
- “*Efficient Electioneering: Navigating the Path to the White House*”, ICDMCIT, Tokyo, Japan. 2023.
- “*Time dependent models for two-dose vaccination campaigns*”. 32<sup>nd</sup> European Conference on Operational Research (EURO). Helsinki, Finland, 2022.
- “*Multiple Roaming Salesman Problem*”. 8<sup>th</sup> meeting of the EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog), Hamburg, Germany, 2022.
- “*A Hyperheuristic Algorithm for the Multiple Roaming Salesman Problem*”. International Network Optimization Conference (INOC), Aachen, Germany, 2022.

- “*A Hybrid Variable Neighborhood Search for the Roaming Salesman Problem*”. 28<sup>th</sup> European Conference on Operational Research (EURO), Valencia, Spain, 2018.
- “*A Skewed Variable Neighborhood Tabu Search for Periodic Traveling Politician Problem*”. International Conference on Operations Research (OR), Brussels, Belgium, 2018.
- “*GSVNTS for the Roaming Salesman Problem*”. 6<sup>th</sup> International Conference on Variable Neighborhood Search, Halkidiki, Greece, 2018.
- “*Metaheuristics for Multi Period Orienteering Problem*”. 38<sup>th</sup> Operations Research and Industrial Engineering National Congress (YAEM), Eskişehir, Turkey, 2018.
- “*The Roaming Salesman Problem: Application to election logistics*”. Annual Workshop of the EURO Working Group on Vehicle Routing and Logistics optimization (VeRoLog), Amsterdam, Netherlands, 2017.
- “*A Matheuristic Approach for the Multi Period Traveling Politician Problem*”. Operations Research and Industrial Engineering National Congress (YAEM), Istanbul, Turkey, 2017.
- “*The multi-period dynamic prize-collecting TSP with arbitrary depots*”. 37<sup>th</sup> Operations Research and Industrial Engineering National Congress (YAEM), Istanbul, Turkey, 2017.
- “*The Roaming Salesman Problem*”. 36<sup>th</sup> Operations Research and Industrial Engineering National Congress (YAEM), Izmir, Turkey, 2016.

## Refereed Journals

- Management Science
- European Journal of Operation Research
- Production and Operations Management
- Journal of the Operational Research Society
- Sustainability Accounting, Management and Policy Journal
- International Journal of Innovation and Technology Management
- Information Development
- Asia Pacific Journal of Information Systems

## Professional Skills

### Languages

- PYTHON
- SQL
- MATLAB
- HTML5 / CSS3
- R
- JAVA
- C#

### Software Packages

- GUROBI
- IBM SPSS
- WordPress
- MS-Office
- GAMS
- IBM ILOG CPLEX OPL
- LaTeX

## Languages

- English : Fluent
- Turkish : Fluent

- Azeri : Native
- Persian : Native

## Membership of Editorial Boards, Scientific Committees and Networks

Editorial Board Member of Journal of Business Analytics	<b>2019 – now</b>
Scientific Program Committee, 28 <sup>th</sup> Iranian Conference on Electrical Engineering (ICEE)	<b>2020</b>
Coordinator of Business Analytics master program, Brunel Business School	<b>2019 – 2020</b>
Co-organization of the 2 <sup>nd</sup> “SDG and Governance”, Istanbul, Turkey.	<b>2019</b>
Organization of 2 <sup>nd</sup> conference on "Modern Technologies: Mobile Devices", University of Tabriz, Iran	<b>2011</b>
Co-organization of the 1st "E-Learning & E-Content", Tabriz, Iran	<b>2010</b>

## Selected Honors and Awards

- Ranked first (among 84 submissions) in "EPIAS Optimization Challenge", Turkey Energy Market **2020**
- Azhitechs Outstanding Research Award **2018**
- Graduate School of Business Full Scholarship, Koç University **2014**
- Iran High Techs grant to attend international conferences **2014**
- Director of Carrier Development Committee of METU Management Club **2013**
- Academic Outstanding Performance of METU **2013**
- Best BSc final research project award with 20/20 grade (among 45 students) **2012**
- Ranked best presentation in the 1<sup>st</sup> "E-Learning & E-Content" conference **2010**
- 7 Years of education in National Organization for Development of Exceptional Talents
- Among top 0.01% of Iran's nationwide University Entrance Exam **2007**
- Finalist in national Olympiad in Informatics (last 40 students in the country), **2006**
- Finalist in national Olympiad in Mathematics (last 40 students in the country), **2006**
- Member of school team for Computer Olympiad Competitions in high school **2006**