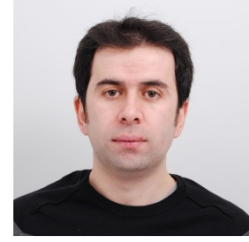


## **Mehmet SOYSAL**

Hacettepe University  
Department of Business Administration  
Beytepe, Çankaya/ANKARA  
E-mail: mehmetsoysal@hacettepe.edu.tr  
Phone: 0 (312) 290 8700 / 122



### **Biographical Details**

*Mehmet Soysal* is an Associate Professor in the Operations Management section of the Hacettepe University Business Administration Department, in Turkey. He has a B.Sc. degree in Management and an M.Sc. degree in Operations Research from Hacettepe University, in Turkey. He conducted his Ph.D. research regarding decision support modeling for sustainable food logistics management in the Operations Research and Logistics Group at Wageningen University, The Netherlands. Here, he participated in several European Commission funded projects as a researcher. His main research interest is on developing decision support tools for green logistics and supply chain problems. Dr Soysal's research is published in international peer reviewed journals, book chapters, technical reports and at international conferences. He also serves as a reviewer in several international journals of operational research, transportation and logistics.

### **Education**

- Wageningen University, Wageningen, The Netherlands  
Ph.D. in Operations Research and Logistics, June 2015  
Dissertation Title: Decision support modelling for Sustainable Food Logistics Management  
Promotors: Prof. Dr. J.G.A.J. van der Vorst and Prof. Dr. J.M. Bloemhof-Ruwaard
- Hacettepe University, Ankara, Turkey  
M.Sc. in Production Management and Quantitative Methods, June 2010 (CGPA: 4 over 4)  
Dissertation Title: A performance evaluation for Inventory Management under stochastic and dynamic demand.  
Supervisor: Prof. Dr. S.A. Tarim
- Hacettepe University, Ankara, Turkey  
B.Sc. in Business Administration, June 2007 (CGPA: 3,58 over 4)

### **Appointments**

- Hacettepe University, Ankara, Turkey  
Associate Professor, January 2019
- Hacettepe University, Ankara, Turkey  
Assistant Professor, January 2018

- Hacettepe University, Ankara, Turkey  
Researcher, June 2015
- Wageningen University, Wageningen, The Netherlands  
Graduate Student Researcher, June 2011 - June 2015
- Hacettepe University, Ankara, Turkey  
Research Assistant, June 2010 - June 2011

### Research Interests

Mathematical Programming, Logistics Systems Design and Analyses, Supply Chain Analysis, Optimization, Sustainability

### Publications & Talks

#### Books

- Logistics 4.0: Digital Transformation of Supply Chain Management The Internet of Things in Supply Chain Management. Volkan Ünal, Mine Ömürgönülşen, Sedat Belbağ, Mehmet Soysal; Taylor and Francis, 2020.
- Food Supply Chains in Cities. In: E. Aktas, M. Bourlakis, (Eds.) An Approximate Dynamic Programming Approach for a Routing Problem with Simultaneous Pick-Ups and Deliveries in Urban Areas. Mustafa Çimen, Çağrı Sel, Mehmet Soysal; Palgrave Macmillan, 2020.
- Sustainable Procurement in Supply Chain Operations. In S.K. Mangla, S. Luthra, S. K. Jakhar, A. Kumar, N. P. Rana, (Eds.) A Sustainable Inventory Optimization Problem under Process Flexibility. Sedat Belbağ, Mustafa Çimen, Mehmet Soysal, Ali Kemal Çelik; Taylor and Francis, 2019.
- Sustainable food supply chain design. In: Bouchery, Y., Corbett, C.J., Fransoo, J.C., Tan, T. (Eds.), Sustainable Supply Chains (pp. 395-412). Jacqueline M. Bloemhof, Mehmet Soysal; Springer, 2017.
- Toward sustainable logistics. In: Cinar, D., Gakis, K. and Pardalos, P.M. (Eds.), Sustainable logistics and transportation: optimization models and algorithms (pp. 1-17). Mehmet Soysal, Jacqueline M. Bloemhof; Springer, 2017.
- Mehmet Soysal, Decision Support Modeling for Sustainable Food Logistics Management. PhD thesis, Wageningen University, The Netherlands, 2015.

#### SCI, SSCI indexed journal papers

- M.R.K. Alaei, M. Soysal, A. Elmi, A. Banaitis, N. Banaitiene, R. Rostamzadeh, S. Javanmard (2021); "A bender's algorithm of decomposition used for the parallel machine problem of robotic cell." *Mathematics*, 9(15), 1730 (SCIE).
- H. Dündar, M. Ömürgönülşen, M. Soysal (2021); "A review on sustainable urban vehicle routing", *Journal of Cleaner Production*, 285, 125444 (SCIE).
- M. Soysal, S. Belbağ, Ç. Sel (2021); "A closed vendor managed inventory system under a mixed fleet of electric and conventional vehicles", *Computers & Industrial Engineering*, 156, 107210. (SCIE).

- M. Soysal, M. Çimen, Ç. Sel, S. Belbağ (2021); “A heuristic approach for green vehicle routing”, *RAIRO - Operations Research*, 55, 2543 (SCIE).
- M. Soysal, M. Çimen, S. Belbağ (2020); “Pickup and delivery with electric vehicles under stochastic battery depletion”, *Computers & Industrial Engineering*, 106512 (SCIE).
- M. Soysal, M. Çimen, S. Belbağ, E. Toğrul (2019); “A review on sustainable inventory routing”, *Computers & Industrial Engineering*, 132, 395-411 (SCIE).
- M. Soysal, M. Çimen, E. Demir (2018); "On the mathematical modeling of green one-to-one pickup and delivery problem with road segmentation", *Journal of Cleaner Production*, 174, 1664-1678 (SCIE).
- M. Soysal, J.M. Bloemhof-Ruwaard, R. Haijema, J.G.A.J. van der Vorst (2018); "Modeling a green inventory routing problem for perishable products with horizontal collaboration", *Computers and Operations Research*, 89, 168-182 (SCIE).
- Ç. Sel, M. Soysal, M. Çimen (2017); "A green model for the catering industry under demand uncertainty", *Journal of Cleaner Production*, 167, 459-472 (SCIE).
- M. Soysal, M. Çimen (2017); "A Simulation Based Restricted Dynamic Programming Approach for the Green Time Dependent Vehicle Routing Problem", *Computers and Operations Research*, 88, 297-305 (SCIE).
- M. Çimen, M. Soysal (2017); "Time-Dependent Green Vehicle Routing Problem with Stochastic Vehicle Speeds: An Approximate Dynamic Programming Algorithm", *Transportation Research Part D*, 54, 82-98 (SSCI).
- M. Soysal (2016); "Closed-loop Inventory Routing Problem for Returnable Transport Items ", *Transportation Research Part D*, 48, 31-45 (SSCI).
- M. Soysal, J.M. Bloemhof-Ruwaard, R. Haijema, J.G.A.J. van der Vorst (2015); "Modeling an inventory routing problem for perishable products with environmental considerations and demand uncertainty", *International Journal of Production Economics*, 164, 118-133 (SCIE).
- M. Soysal, J.M. Bloemhof-Ruwaard, T. Bektaş (2015); "The time-dependent two-echelon capacitated vehicle routing problem with environmental considerations", *International Journal of Production Economics*, 164, 366-378 (SCIE).
- M. Soysal, J.M. Bloemhof-Ruwaard, J.G.A.J. van der Vorst (2014); "Modelling food logistics networks with emission considerations: The case of an international beef supply chain", *International Journal of Production Economics*, 152, 57-70 (SCIE).

#### Other journal papers

- H. C. Kazanç, M. Soysal, M. Çimen (2021); “Modeling Heterogeneous Fleet Vehicle Allocation Problem with Emissions Considerations”, *The Open Transportation Journal*, 15, 1.
- M. Ömürgönülşen, C. Eryiğit, Ö. Ö.Tektaş, M. Soysal (2020); “Enhancing the Quality of a Higher Education Course: The Quality Function Deployment Methodology and Kano Model Integration”, *Journal of Higher Education* (ESCI).

- S. Belbağ, M. Çimen, M. Soysal (2020); “A Scenario Analysis On The Effect Of Industry 4.0 On Inventory Costs In Production Systems”, *Verimlilik Dergisi*, 2, 125-143.
- M. Soysal, M. Çimen, M. Ömürganülşen, S. Belbağ (2019); “Performance Comparison of Two Recent Heuristics for Green Time Dependent Vehicle Routing Problem”, *International Journal of Business Analytics (IJBAN)*, 6(4), 1-11 (ESCI).
- N. S. Pamuk, M. Soysal (2018); “A Research On New Industrial Revolution Industry 4.0”, *Verimlilik Dergisi*, 1, 41-66.
- M. Soysal; M. Çimen (2017); "On the Inventory Cost Performances of Process Flexibility Designs Under Various Demand Patterns", *Finance Politics and Economic Reviews*, 54(633), 83-95.
- M. Soysal (2016); "A Research on Non-Stationary Stochastic Demand Inventory Systems", *International Journal of Business and Social Science*, 3(7), 153-158.
- M. Çimen, S. Belbağ, M. Soysal (2016); "Production Flexibility and Inventory Management: A Decision Support Model for Inventory Optimization", *Journal of Business Research-Turk*, 8, 360-379.
- M. Çimen, S. Belbağ, M. Soysal (2016); "An Approximate Dynamic Programming Heuristic for the Capacitated Stochastic Inventory Problem", *Gazi Journal of Economics and Business*, 2, 43-64.
- M. Soysal, J.M. Bloemhof-Ruwaard, M.P.M. Meuwissen, J.G.A.J. van der Vorst (2012); "A Review on Quantitative Models for Sustainable Food Logistics Management", *International Journal on Food System Dynamics*, 3(2), 136-155.
- H. Calipinar, M. Soysal (2012); "E-Procurement: A Case Study about the Health Sector in Turkey", *International Journal of Business and Social Science*, 3(7), 232-244.
- H. Calipinar, M. Soysal (2010); "Application of Quality Function Deployment on a GSM Operator", *Hacettepe University Journal of Economics and Administrative Sciences*, 2, 95-115.
- M. Soysal, M. Ömürganülşen (2010); "An Application on Demand Forecasting in the Turkish Tourism Industry", *Anatolia: An International Journal of Tourism and Hospitality Research*, 21(1), 128-136.

#### Conference proceedings

- M. Soysal, M. Çimen, M. Ömürganülşen, S. Belbağ (2016), A comparison of two heuristics for time dependent vehicle routing problem. *Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu*, 987-992.
- M. Soysal, J.M. Bloemhof-Ruwaard, J.G.A.J. van der Vorst (2012), A Review of Quantitative Models for Sustainable Food Logistics Management: Challenges and Issues, *Proceedings in Food System Dynamics*, 448-462.
- M. Ömürganülşen, M. Soysal, N. Sahin, T. Coskun (2009), Reverse Supply Chain Management: A Case Study in a Firm Operating in Beverage Industry in Turkey, *9th National Production Research Congress*, 475-482.

#### Talks

- M. Soysal, “Recent Academic Studies in the Field of Sustainable Logistics Management”, Republic of Turkey Ministry of Transport and Infrastructure, Green Logistics Workshop, Ankara, 2021.
- M. Soysal, “Toward Sustainable Logistics”, ASBU Transportation & Logistics Workshop, Ankara, 2020.
- M. Soysal, M. Çimen, Ç. Sel, S. Belbağ, "The Time Dependent Vehicle Routing Problem: A Simulation Based Dynamic Programming Approach", International Conference on Operations Research, Berlin, Almanya, 2017.
- M. Soysal, "Closed-loop Inventory Routing Problem for Returnable Transport Items", 28th European Conference on Operational Research, Poznan, Poland, 2016.
- M. Soysal, J.M. Bloemhof-Ruwaard, R. Haijema, J.G.A.J. van der Vorst , "Modeling a green Inventory Routing Problem for perishable products with horizontal collaboration", POMS 26th Annual Conference, Washington D.C., USA, 2015.
- M. Soysal, J.M. Bloemhof-Ruwaard, T. Bektaş, “The time-dependent two-echelon capacitated vehicle routing problem with environmental considerations”, IFORS, Barcelona, Spain, 2014.
- M. Soysal, “The time-dependent two-echelon capacitated vehicle routing problem with emissions consideration”, 39th conference on The mathematics of operations research, Lunteren, The Netherlands, 2014.
- M. Soysal, J.M. Bloemhof-Ruwaard, J.G.A.J. van der Vorst, “Minimizing emissions in the time and location dependent capacitated vehicle routing problem”, European Conference on Operational Research, Rome, Italy. 2013.
- M. Soysal, J.M. Bloemhof-Ruwaard, J.G.A.J. van der Vorst, “An integrated model for sustainable food logistics management” EURO 2012 - 25th European Conference on Operational Research, Vilnius, Lithuania, 2012.
- M. Soysal, J.M. Bloemhof-Ruwaard, J.G.A.J. van der Vorst, “A Review of Quantitative Models for Sustainable Food Logistics Management: Challenges and Issues”, System Dynamics and Innovation in Food Networks, Innsbruck-Igls, Austria, 2012.

## **Projects**

- An analysis on supply and distribution cooperative operations of small and medium enterprises, Project Coordinator, The Republic of Turkey-Ministry of Trade Directorate General of Tradesmen, Craftsmen and Cooperatives, 9 months, 2020.
- Step change in agri-food logistics ecosystems, Phd Researcher, INTERREG IVB North-West Europe, 2014 - 2015.
- Knowledge-based sustainable value-added food chains: innovative tools for monitoring ethical, environmental and socio-economical impacts and implementing EU-Latin America shared strategies, Phd Researcher, European Commission under the 7th Framework Program theme: Knowledge-Based Bio-Economy, 2011 - 2015.

## **Honors**

- An outstanding PhD Thesis in the field of Sustainable Supply Chains, 2017, Institution: The EURO Working Group on Sustainable Supply Chains.
- Awarded research assistantship during graduate study by Wageningen University (2011-2015)
- Awarded research assistantship during graduate study by Hacettepe University (2009-2011)
- LEB Foundation Grant, LEB Foundation, Wageningen, The Netherlands, Travel grant to conference EURO 2012.
- National Scholarship Programme for Ph.D. Students, 2010, Corporation: The Scientific and Technological Research Council of Turkey, Award Type: Scholarship
- National Scholarship Programme for M.Sc. Students, 2008, Corporation: The Scientific and Technological Research Council of Turkey, Award Type: Scholarship

### **Computer Skills**

Experienced with languages C++, Visual Basic; mathematical software AMPL, GAMS, Lindo/Lingo, CPLEX, OPL, SPSS, and typesetting MS Office and Latex.

### **Service and Memberships**

Reviewer for international journals indexed in SCI, SSCI or SSIE such as *International Journal of Production Economics*, *Journal of Cleaner Production*, *Transportation Research Part E: Logistics and Transportation Review*, *Resources, Conservation & Recycling*, *International Journal of Physical Distribution & Logistics Management*, *Computers and Operations Research*, *European Journal of Operational Research*, *Omega Journal*, *Computers & Industrial Engineering*.