

Serpil Sayın

curriculum vitae

Scientific Positions

- 2006– **Professor of Operations and Information Systems**, *Koç University, Istanbul, Türkiye*
- 2016 **Visiting Researcher**, *European School of Management and Technology, Berlin, Germany*
- 2009–2010 **Visiting Researcher**, *McCombs School of Business, University of Texas at Austin, Austin, TX, USA*
- 2000–2006 **Associate Professor of Operations and Information Systems**, *Koç University, Istanbul, Türkiye*
- 2003 **Visiting Researcher**, *Warrington College of Business, University of Florida, Gainesville, FL, USA*
- 2002 **Visiting Researcher**, *Olin Business School, Washington University in St. Louis, St. Louis, MO, USA*
- 1996–2000 **Assistant Professor of Operations and Information Systems**, *Koç University, Istanbul, Türkiye*
- 1992–1996 **Assistant Professor of Management Sciences**, *Bilkent University, Ankara, Türkiye*

Education

- 1992 **PhD in Decision and Information Sciences**, *University of Florida, Gainesville, FL, USA*
- 1988 **BS in Industrial Engineering**, *Boğaziçi University, Istanbul, Türkiye*
- 1988 **BA in Mathematics**, *Boğaziçi University, Istanbul, Türkiye*

Professional Interests

Multiobjective optimization, machine learning, decision support, healthcare policy and operations

Academic Recognition and Service

Associate Editor *Journal of Global Optimization*, 2021–

Guest co-Editor	Special Issue of <i>Journal of Multi-Criteria Decision Analysis</i> on “Multiobjective Optimization on a Budget,” 2024; Special Issue of <i>Journal of Global Optimization</i> on “Global Multiobjective Optimization,” 2019, 2013; Special Issue of <i>OR Spectrum</i> on “Multi-criteria Optimization in Industry,” 2019
Co-Organiser	Dagstuhl Seminar 23361: <i>Multiobjective Optimization on a Budget</i> , 2023
Program Chair	<i>25th International Conference on Multiple Criteria Decision Making</i> , 2019
Chair	INFORMS MCDM Section, 2018–2019
Cluster Chair	MCDM Section <i>INFORMS Annual Meeting</i> , 2018, 2019
Board Member	INFORMS MCDM Section, 2016–2021
Committee Chair	<i>INFORMS MCDM Section Junior Researcher Best Paper Award</i> , 2020, 2021
Management Committee member	COST Action CA22137, Randomised Optimisation Algorithms Research Network (ROAR-NET), 2023-
Invited speaker	<i>15th International Conference on Multiobjective Programming and Goal Programming</i> , 2023; <i>53rd Annual Meeting of the Brazilian Society of Operations Research</i> , 2021; <i>Recent Advances in Multiobjective Optimization (RAMOO)</i> , 2015.

Publications

30 articles in peer-reviewed scientific journals, 3 book chapters, 5 conference proceedings articles

Selected Publications

- [1] S. Sayin (2024). “Supported nondominated points as a representation of the nondominated set: An empirical analysis”. *Journal of Multi-Criteria Decision Analysis* 31(1–2): DOI: 10.1002/mcda.1829
- [2] G. Kirlik and S. Sayin (2018). “Bilevel programming for generating discrete representations in multiobjective optimization”. *Mathematical Programming* 169(2): 585–604. DOI: 10.1007/s10107-017-1149-0
- [3] G. Kirlik and S. Sayin (2014). “A new algorithm for generating all nondominated solutions of multiobjective discrete optimization problems”. *European Journal of Operational Research* 232(3): 479–488.
- [4] H. Aytuğ and S. Sayin (2009). “Using support vector machines to learn the efficient set in multiple objective discrete optimization”. *European Journal of Operational Research* 193(2): 510–519.
- [5] S. Sayin (2000). “Measuring the quality of discrete representations of efficient sets in multiple objective mathematical programming”. *Mathematical Programming, Series B* 87(3): 543–560.