

SERPİL SAYIN

Professor of Operations and Information Systems

Associate Dean, Graduate Programs in Business and Executive Education

DATA MINING**MULTIPLE CRITERIA DECISION MAKING****OPTIMIZATION****DECISION SUPPORT**

Ph.D. in Decision and Information Sciences, University of Florida, 1992; B.Sc. in Industrial Engineering and Mathematics, Boğaziçi University, 1988

Professor Sayin currently teaches management information systems, data mining and optimization. She has maintained a research stream on developing methodologies for solving multiple objective optimization problems. She has also published papers in various operations management areas such as scheduling, flexible manufacturing systems, facility location, assembly line balancing and workforce management. Her recent research focuses on the theory and practice of data mining.

SELECTED PUBLICATIONS

“Using Support Vector Machines to Learn the Efficient Set in Multiple Objective Discrete Optimization,” to appear in European Journal of Operational Research, with H. Aytuğ

“Single-Supplier/Multiple-Buyer Supply Chain Coordination with Vertical Information Sharing,” to appear in European Journal of Operational Research, with S. Karabatı

“Assigning Cross-Trained Workers to Departments: A Two-Stage Optimization Model to Maximize Utility and Skill Improvement,” European Journal of Operational Research, Vol. 176, pp. 1643-1658, 2007, with Selçuk Karabatı

“Algorithm Robust for the Bicriteria Discrete Optimization Problem: Heuristic Variations and Computational Evidence,” Annals of Operations Research, Vol. 147, pp.71-85, 2006, with Panos Kouvelis

“A Mixed-Integer Programming Approach to the Clustering Problem with An Application in Customer Segmentation,” European Journal of Operational Research, Vol. 173(3), pp. 866-879, 2006, with Burcu Sağlam, F. Sibel Salman, and Metin Türkay

“The Multiobjective Discrete Optimization Problem: A Weighted Min-Max Two Stage Optimization Approach and a Bicriteria Algorithm,” Management Science, Vol. 51, pp.1572–1581, 2005, with Panos Kouvelis

“Assembly Line Balancing in a Mixed-Model Sequencing Environment,” European Journal of Operational Research, Vol. 149, pp. 417-429 , 2003, with S. Karabatı

“A Procedure to Find Discrete Representations of the Efficient Set with Specified Coverage Errors,” Operations Research, Vol. 51, pp. 427-436 , 2003

“Optimizing over the Efficient Set Using a Top–Down Search of Faces,” Operations Research, Vol. 48, pp. 65–72, 2000

“Measuring the Quality of Discrete Representations of Efficient Sets in Multiple Objective Mathematical Programming,” Mathematical Programming, Vol. 87, pp.543–560, 2000

PROFESSIONAL EXPERIENCE

12/06-present, Professor, Koç University

12/99-12/06, Associate Professor, Koç University

09/96-12/99, Assistant Professor, Koç University

09/92-08/96, Assistant Professor, Bilkent University

08/88-08/92, Assistant Instructor-Teaching/Research Assistant, University of Florida

01/87-01/88, Teaching Assistant, Boğaziçi University

HONORS AND AWARDS

TÜBİTAK Encouragement Award in Engineering, 2005; Invited to the Annual Doctoral Student Colloquium, ORSA. (upon nomination by the Department of Decision and Information Sciences, University of Florida);

Received scholarship for graduate studies from Turkish Educational Foundation

MEMBER

Institute for Operations Research and the Management Sciences (INFORMS); International Society on Multiple Criteria Decision Making; Operational Research Society, Turkey

College of Administrative Sciences & Economics; CAS 246

Phone: 90-212-338-1428

ssayin@ku.edu.tr

<http://portal.ku.edu.tr/~ssayin/>