

## Prof. ÖMER KIRCA

### Personal Information

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### Education Information

Doctorate, Georgia Institute of Technology, Endüstri Mühendisliği, United States Of America 1979 - 1983

### Advising Theses

KIRCA Ö., MODEL AND PROCEDURES FOR THE JAMMER AND TARGET ALLOCATION PROBLEM, Postgraduate, K.GÜL(Student), 2018

KIRCA Ö., A two stage approach for hybrid-assembly line design, Postgraduate, D.ŞİMŞEK(Student), 2014

KIRCA Ö., SÜRAL H., Multi-layer network design problems in telecommunication, Doctorate, İ.YÜKSEL(Student), 2013

KIRCA Ö., Ammunition transfer system optimization problem, Postgraduate, H.SİNEM(Student), 2012

KIRCA Ö., A heuristic approach for the single machine scheduling tardiness problems, Postgraduate, S.İLKER(Student), 2011

KIRCA Ö., Mixed-model two-sided assembly line balancing, Postgraduate, E.UÇAR(Student), 2010

KIRCA Ö., Two-sided assembly line balancing models and heuristics, Postgraduate, U.ARIKAN(Student), 2009

KIRCA Ö., Assembly line balancing with multi-manned tasks, Postgraduate, C.ERDEM(Student), 2007

KIRCA Ö., Multi-item inventory-routing problem for an FMCG company, Postgraduate, E.ZERMAN(Student), 2007

KIRCA Ö., A new approach to generating non-permutation schedules for flowshops with missing operations, Postgraduate, M.TABALU(Student), 2006

KIRCA Ö., Chocolate production line scheduling: A case study, Postgraduate, E.ÇÖLOVA(Student), 2006

KIRCA Ö., Batch scheduling of incompatible jobs on a single reactor with dynamic arrivals, Postgraduate, G.KORKMAZ(Student), 2004

KIRCA Ö., A general production and financial planning model for integrated poultry organizations, Postgraduate, B.SATIR(Student), 2003

AZİZOĞLU M., KIRCA Ö., A Mixed model line sequencing problem with makespan minimization., Postgraduate, B.SOYLU(Student), 2002

KIRCA Ö., A Branch and bound algorithm to minimize total weighted flowtime for the two-stage assembly scheduling problem, Postgraduate, A.Tozkapan(Student), 1999

KIRCA Ö., A Branch and bound algorithm to minimize total weighted flowtime for the two-stage assembly scheduling, Postgraduate, A.TOZKAPAN(Student), 1999

KIRCA Ö., An Object-oriented graphical user interface for a production scheduling problem in air supply and maintenance centers, Postgraduate, M.ERMİŞ(Student), 1997

KIRCA Ö., A Heuristic for flowskops with totalflow time minimization, Postgraduate, A.GÜLÇİN(Student), 1996

KIRCA Ö., Multi-item lot sizing problem with setup times, Doctorate, H.SÜRAL(Student), 1996

KIRCA Ö., Parallel machine scheduling to minimize total cost functions, Doctorate, M.AZİZOĞLU(Student), 1994

KIRCA Ö., Heuristic procedures for multi-item discrete lot sizing, Postgraduate, A.KAYNARCA(Student), 1991

KIRCA Ö., Heuristic procedures for multi-item discrete lot sizing, Postgraduate, A.Kaynarca(Student), 1991

KIRCA Ö., Aggregate production planning and material requirements planning systems design for an electronics company, Postgraduate, A.TÜREÇ(Student), 1991

KIRCA Ö., Efficient procedures for multi-item lot sizing problems based on tight formulations, Postgraduate, M.KÖKTEN(Student), 1990

KIRCA Ö., Heuristic procedures for the lot sizing problem with assembly structures, Postgraduate, O.İRFANOĞLU(Student), 1990

KIRCA Ö., Algorithms for multi-level capacitated lot-sizing problem with set-up times, Postgraduate, E.ŞAHİN(Student), 1989

KIRCA Ö., Simulated annealing: An implementation with large scale traveling salesman problems, Postgraduate, M.KILIÇ(Student), 1989

KIRCA Ö., Formulations and heuristic procedures for location-allocation-routing problems (Larp's), Postgraduate, T.YURTSEVER(Student), 1988

KIRCA Ö., Heuristic procedures for multi-item dynamic lot sizing problem with set-up times, Postgraduate, B.Deniz(Student), 1988

KIRCA Ö., Heuristic procedures for multi-item dynamic lot sizing problems with set-up times, Postgraduate, B.ULUÖZ(Student), 1988

KIRCA Ö., Formulation and heuristic procedures for location-allocation-routing problem (Larp's), Postgraduate, T.Yurtsever(Student), 1988

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Naval Air Defense Planning problem: A novel formulation and heuristics**  
Arslan C., Karasakal O., Kirca Ö.  
Naval Research Logistics, vol.71, no.7, pp.895-919, 2024 (SCI-Expanded)
- II. **A branch and bound algorithm to minimize the total tardiness for m-machine permutation flowshop problems**  
Chung C., Flynn J., Kirca O.  
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.174, no.1, pp.1-10, 2006 (SCI-Expanded)
- III. **Tardiness minimization on parallel machines**  
AZİZOĞLU M., KIRCA Ö.  
International Journal of Production Economics, vol.55, no.2, pp.163-168, 1998 (SCI-Expanded)
- IV. **A location-distribution application for a beer company**  
Köksalan M., SÜRAL H., KIRCA Ö.  
European Journal of Operational Research, vol.80, no.1, pp.16-24, 1995 (SSCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Benders Decomposition for the Multi layer Telecommunication Network Design Problem**  
Yuksel Ergun I., SÜRAL H., KIRCA Ö.  
28th European Conference on Operational Research, Poznan, Poland, 3 - 06 July 2016

## Metrics

Publication: 5

Citation (WoS): 136

Citation (Scopus): 147

H-Index (WoS): 3

H-Index (Scopus): 3

## **Non Academic Experience**

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