

ibrahimküçükkoç

endüstri mühendisliği, araştırma görevlisi

iletifim

Balıkesir Üniversitesi
Endüstri Mühendisliği Bölümü
Çağış Kampüsü, Balıkesir
Türkiye

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diller

Türkçe ve İngilizce

programlar

Java, CPLEX, GAMS,
Witness, Solidworks

profil sayfaları

[scopus](#)
[orcid](#)
[researchID](#)
[researchgate](#)
[google scholar](#)

google atıf ölçüleri

h-index: 7
i10-index: 6
citations: 184

üyelikler

EUROPT
SSAISB
DAAM
APICS
OR Society UK
IBM Academic Initiative

eğitim

- 2012 – 2015 **Doktora** Endüstri Mühendisliği
University of Exeter, Exeter, İngiltere
*Tez: Modelling and Solving Mixed-model Parallel Two-sided
Assembly Line Problems*
- 2010 – 2011 **Master** Endüstri Mühendisliği
Balıkesir Üniversitesi, Balıkesir, Türkiye
- 2009 – 2010 **Master** Endüstri Mühendisliği (*Balıkesir Üni. Yatay Geçiş*)
Selçuk Üniversitesi, Konya, Türkiye
- 2005 – 2009 **Lisans** Endüstri Mühendisliği
Selçuk Üniversitesi, Konya, Türkiye

akademik görevler

- 2016 – Halen **Balıkesir Üniversitesi**
Araştırma Görevlisi Doktor, Endüstri Mühendisliği
- 2012 – 2016 **University of Exeter**
Lisansüstü Araştırmacı, College of Engineering, Mathematics and
Physical Sciences
- 2009 – 2012 **Balıkesir Üniversitesi**
Araştırma Görevlisi, Endüstri Mühendisliği

editöryal görevler

- 2016 – Halen **Alan Editörü**
An International Journal of Optimization and Control: Theories &
Applications
- 2016 – Halen **Editör Kurulu Üyesi**
Peertechz Journal of Computer Science and Engineering
- 2014 – Halen **Editör Kurulu Üyesi**
News in Engineering
- 2013 – Halen **Editör Kurulu Üyesi**
Journal of Computer Sciences and Applications (JCSA)
- 2012 – 2014 **Alan Editörü**
IAES International Journal of Artificial Intelligence (IJ-AI)
- 2010 – 2016 **Teknik Editör**
An International Journal of Optimization and Control: Theories &
Applications
- 2013 **Co-keynote Editör**
The OR Society, OR55 Annual Conference, 3-5 Eylül 2013,
Exeter, UK
- 2013 **Keynote Editör**
The OR Society, YOR18 Conference, 9-11 Nisan 2013, Exeter, UK

araştırma alanları

Montaj hattı dengeleme ve üretim planlama problemleri dahil üretim sistemlerinin modellenmesi ve optimizasyonu; bu problemlerin sezgisel/meta-sezgisel algoritmalar ve etmen temelli yaklaşımlar kullanılarak çözülmesi.

son güncelleme: 10/03/2017

burs ve ödüller

TÜBİTAK Uluslararası Bilimsel Yayınları Teşvik Programı
2013, 2014, 2015, 2016

Artificial Intelligence, An International Journal (Elsevier)
AISB 2013 Convention Kayıt Ücreti Ödülü, Nisan 3-5, 2013

YÖK Yurtdışı Doktora Bursu (İngiltere)
Yüksek Öğretim Kurulu, 01/2012 – 01/2016

Master Bursu
TÜBİTAK BİDEB – 2210, 09/2010 – 07/2011

projeler

Mixed Model Assembly Line Balancing Problems and an Application with Genetic Algorithms
Balıkesir Üniversitesi, Bilimsel Araştırma Projesi, 12/2010 – 07/2011

yayınlar

Alanımdaki önde gelen dergi ve bilimsel toplantılarda yaptığım yayınlar.

uluslararası hakemli dergiler (SCI/SCI-E)

Comprehensive review and evaluation of heuristics and meta-heuristics for two-sided assembly line balancing problem

Li, Z., Kucukkoc, I., Nilakantan, J. M.

Computers & Operations Research (to appear).

<http://doi.org/10.1016/j.cor.2017.03.002>

Balancing of mixed-model parallel U-shaped assembly lines considering model sequences

Kucukkoc, I., Zhang, D. Z.

International Journal of Production Research (to appear).

Production Planning in Additive Manufacturing and 3D Printing

Li, Q., Kucukkoc, I., Zhang, D. Z.

Computers & Operations Research, 83C, pp. 157-172, 2017.

<http://doi.org/10.1016/j.cor.2017.01.013>

A Lightweight and Support-free Design Method for Selective Laser Melting

Li, Z., Zhang, D. Z., Dong, P., Kucukkoc, I.

The International Journal of Advanced Manufacturing Technology (to appear).

<http://doi.org/10.1007/s00170-016-9509-0>

A mathematical model and artificial bee colony algorithm for the lexicographic bottleneck mixed-model assembly line balancing problem

Kucukkoc, I., Buyukozkan, K., Satoglu, S.I., Zhang, D. Z.

Journal of Intelligent Manufacturing (to appear).

<http://doi.org/10.1007/s10845-015-1150-5>

Mixed-model Parallel Two-sided Assembly Line Balancing Problem: A Flexible Agent-based Ant Colony Optimization Approach

Kucukkoc, I., Zhang, D. Z.

Computers & Industrial Engineering, 97, pp. 58-72, 2016.

<http://doi.org/10.1016/j.cie.2016.04.001>

Lexicographic Bottleneck Mixed-model Assembly Line Balancing Problem: Artificial Bee Colony and Tabu Search Approaches with Optimised Parameters

Buyukozkan, K., Kucukkoc, I., Satoglu, S.I., Zhang, D. Z.
Expert Systems with Applications, 50, pp. 151-166, 2016.
<http://doi.org/10.1016/j.eswa.2015.12.018>

Integrating ant colony and genetic algorithms in the balancing and scheduling of complex assembly lines

Kucukkoc, I., Zhang, D. Z.

The International Journal of Advanced Manufacturing Technology, 82(1), pp. 265-285, 2016.

<http://doi.org/10.1007/s00170-015-7320-y>

Balancing of parallel U-shaped assembly lines

Kucukkoc, I., Zhang, D. Z.

Computers & Operations Research, 64, pp. 233-244, 2016.

<http://doi.org/10.1016/j.cor.2015.05.014>

Type-E Parallel Two-Sided Assembly Line Balancing Problem: Mathematical Model and Ant Colony Optimisation based Approach with Optimised Parameters

Kucukkoc, I., Zhang, D. Z.

Computers & Industrial Engineering, 84, pp. 56-69, 2015.

<http://doi.org/10.1016/j.cie.2014.12.037>

A Mathematical Model and Genetic Algorithm based Approach for Parallel Two-Sided Assembly Line Balancing Problem

Kucukkoc, I., Zhang, D. Z.

Production Planning & Control, 26(11), pp. 874-894, 2015.

<http://doi.org/10.1080/09537287.2014.994685>

Mathematical Model and Agent Based Solution Approach for the Simultaneous Balancing and Sequencing of Mixed-Model Parallel Two-Sided Assembly Lines

Kucukkoc, I., Zhang, D. Z.

International Journal of Production Economics, 158, pp. 314-333, 2014.

<http://doi.org/10.1016/j.ijpe.2014.08.010>

Simultaneous balancing and sequencing of mixed-model parallel two-sided assembly lines

Kucukkoc, I., Zhang, D. Z.

International Journal of Production Research, 52(12), pp. 3665-3687, 2014.

<http://doi.org/10.1080/00207543.2013.879618>

Using response surface design to determine the optimal parameters of genetic algorithm and a case study

Kucukkoc, I., Karaoglan, A. D., Yaman, R.

International Journal of Production Research, 51(17), pp. 5039-5054, 2013.

<http://doi.org/10.1080/00207543.2013.784411>

uluslararası hakemli dergiler (diğer indeksler)

A New Hybrid Genetic Algorithm to Solve More Realistic Mixed-Model Assembly Line Balancing Problem

Kucukkoc, I. and Yaman, R.

International Journal of Logistics Systems and Management, 14(4), (2013), pp. 405-425.

uluslararası hakemli bilimsel toplantılar-tam metin

Increasing the utilisation of additive manufacturing and 3D printing machines considering order delivery times

Kucukkoc, I., Li, Q., Zhang, D. Z.

In Grubbström, R.W, Hinterhuber, H.H., (Eds), PrePrints, Vol. 3, 19th

International Working Seminar on Production Economics, Innsbruck, Austria, February 22-26, 2016, 195-201.

Multi-objective Optimization of Mixed-model Two-sided Assembly Lines - A Case Study

Kucukkoc, I.

International Conference on Computer Science and Engineering, Tekirdağ, Turkey, 20-23 October 2016, 249-255.

Coping with Model Variations on Parallel U-shaped Assembly Line Configurations

Kucukkoc, I., Zhang, D. Z.

Proceedings of the 15th IFAC/IEEE/IFIP/IFORS Symposium on Information Control in Manufacturing (INCOM 2015), Ottawa, Canada, May 11-13, 2015.

Lexicographic Bottleneck Mixed-model Assembly Line Balancing Problem: an Artificial Bee Colony Approach

Buyukozkan, K., Kucukkoc, I., Zhang, D. Z.

Proceedings of the 44th International Conference on Computers and Industrial Engineering and IMSS 2014 - 9th International Symposium on Intelligent Manufacturing and Service Systems, Joint International Symposium on "The Social Impacts of Developments in Information, Manufacturing and Service Systems" (CIE 2014), Istanbul, Turkey, October 14-16, 2014, pp. 1213-1227.

An Agent Based Ant Colony Optimisation Approach for Mixed-Model Parallel Two-Sided Assembly Line Balancing Problem

Kucukkoc, I., Zhang, D. Z.

Pre-Prints of the Eighteenth International Working Seminar on Production Economics, Innsbruck, Austria, February 24-28, 2014, Volume 3, pp. 313-328.

Balancing Parallel Two-Sided Assembly Lines via a Genetic Algorithm Based Approach

Kucukkoc, I., Zhang, D. Z.

Proceedings of the 43rd International Conference on Computers and Industrial Engineering (CIE43), The University of Hong Kong, Hong Kong, October 16-18, 2013, Volume 1, pp. 106-121.

Balancing Mixed-Model Parallel Two-Sided Assembly Lines

Zhang, D. Z., Kucukkoc, I.

Proceedings of the International Conference on Industrial Engineering and Systems Management (IEEE-IESM'2013), École Mohammadia d'Ingénieurs de Rabat (EMI), International Institute for Innovation, Industrial Engineering and Entrepreneurship (I4E2) - Rabat, Morocco, October 28-30, 2013, pp. 391-401 (ISBN: 978-2-9600532-4-1).

Balancing Parallel Two-Sided Assembly Lines with Ant Colony Optimisation Algorithm

Kucukkoc, I., Zhang, D. Z., Keedwell, E. C.

Proceedings of the 2nd Symposium on Nature-Inspired Computing and Applications (NICA) at Artificial Intelligence and the Simulation of Behaviour (AISB) 2013 Convention, University of Exeter, April 3-5, 2013, pp. 21-28.

uluslararası hakemli bilimsel toplantılar (özet)

On Applications of Ant Colony Optimisation Techniques in Solving Assembly Line Balancing Problems

Kucukkoc, I., Zhang, D. Z.,

Keynote Papers and Extended Abstracts Book, OR55 Annual Conference, The OR Society UK, University of Exeter, September 3-5, 2013, pp. 114-120 (Extended Abstract).

An Improved Ant Colony Optimisation Algorithm for Type-I Parallel Two-Sided Assembly Line Balancing Problem

Kucukkoc, I., Zhang, D. Z., Keedwell, E. C., Pakgohar, A.

YOR18 Biennial Conference, The OR Society UK, University of Exeter, April 9-11, 2013.

Generalised Discrete Time-Cost Trade-Off Scheduling Problem in Highway Construction Projects

Pakgohar, A., Childe, S., Kucukkoc, I., Zhang, D. Z.

YOR18 Biennial Conference, The OR Society UK, University of Exeter, April 9-11, 2013.

ulusal hakemli bilimsel toplantılar (tam metin)

A New Comsoal Based Heuristic Approach to Mixed-Model Assembly Line Balancing with Parallel Workstations and Zoning Constraints

Yaman, R., Kucukkoc, I.

Proceedings of the 31th Turkish National Congress on Operations Research and Industrial Engineering, Sakarya Üniversitesi, July 5-7, 2011, pp. 219-230.

kitaplar

OR55 Keynote Papers and Extended Abstracts (Edited Book)

Kucukkoc, I., Mustafee, N.

OR55 Annual Conference, 2013, The OR Society UK, University of Exeter, ISBN: 0903440555.

YOR18 Keynote Papers and Extended Abstracts (Edited Book)

Kucukkoc, I.

YOR18 Biennial Conference, 2013, The OR Society UK, University of Exeter, ISBN: 0903440520.

komite görevleri

Organize Komitesi Üyeliği

19. Ulusal Ergonomi Kongresi, Balıkesir Üniversitesi, 27-29 Eylül 2013, Balıkesir, Türkiye

OR55 Annual Conference, The OR Society, 3-5 Eylül 2013, University of Exeter, İngiltere

YOR18 Biennial Conference, The OR Society, 9-11 Nisan 2013, University of Exeter, İngiltere

Program/Bilim Kurulu Komite Üyeliği

International Conference on Artificial Intelligence and Control Automation (AICA2015), 16-17 January 2015, Phuket Island, Thailand

International Conference on Advances in Computing, Communication and Control: ICAC3, Ocak 2015, Mumbai

3rd International Conference on Advances in Computing, Communication and Control: ICAC3, 18-19 Ocak 2013, Mumbai

hakemlikler

Information Sciences, Elsevier, 2016 – Halen

International Journal of Production Economics, Elsevier, 2016 – Halen

Computers & Operations Research, Elsevier, 2015 – Halen

Expert Systems with Applications, Elsevier, 2016 – Halen

Applied Soft Computing, Elsevier, 2013 – Halen

Applied Mathematical Modelling, Elsevier, 2015 – Halen
International Journal of Production Research, Taylor & Francis, 2014 – Halen
Assembly Automation (AA), Emerald, 2012 – Halen
Engineering Optimization, Taylor & Francis, 2016 – Halen
Journal of Facilities Management (JFM), Emerald, 2013 – Halen
Neural Computing and Applications (NCA), Springer, 2013 – Halen
International Journal of Industrial Engineering: Theory, Applications and Practice,
2014 – Halen
Production & Manufacturing Research: An Open Access Journal, Taylor & Francis,
2013 – Halen
The South African Journal of Industrial Engineering (SAJIE), 2013 – Halen
Iberoamerican Journal of Industrial Engineering (IJIE), 2013 – Halen
Journal of Industrial and Management Optimization, 2016 - Present
American Journal of Applied Mathematics and Statistics (AJAMS), 2013 – Halen
American Journal of Science and Technology, AASCIT, 2014 – Halen
Gazi University Journal of Science (GUJS), Part A: Engineering and Innovation,
2014 – Halen
International Journal of Renewable Energy Research (IJRER), 2011 – Halen
International Journal of Research in Computer Science (IJORCS), 2012 – Halen
International Journal of Computer Science and Artificial Intelligence (IJCSAI),
2013 – Halen
International Journal of Computational Intelligence and Information Security,
2013 – Halen
International Conference on Nature of Computation and Communication
(ICTCC2014), Vietnam, 2014
25th Southern African Institute of Industrial Engineering Conference (SAIIE25),
South Africa, 2013
3rd International Conference on Advances in Computing, Communication and
Control: ICAC3, 2013

öğretim etkinliđi

Asiste edilen dersler:

University of Exeter

ECM1101 – Professional Studies and Skills Development
2014/5 (T2)

ECM3171 – Computer Aided Engineering Drawing
2014/5 (T1)

ECM2106 – Manufacturing Systems
2013/4 (T2)

ECM1101 – Professional Studies and Skills Development
2012/3 (T2)

Balıkesir Üniversitesi

İleri Doğrusal Programlama, Lisansüstü
2010/11

Üretim Planlama, Lisans
2010/11

Doğrusal Olmayan Optimizasyon, Lisansüstü
2009/10

Tesis Planlama, Lisansüstü
2009/10

Karar Verme, Lisans
2009/10