

# İbrahim Küçükkoç

Doç. Dr., Endüstri Mühendisliği

Güncelleme: 20 Ocak 2022

## İletişim

Balıkesir Üniversitesi  
Endüstri Mühendisliği Bölümü  
Çağış Kampüsü, Balıkesir  
Türkiye

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## Diller

Türkçe ve İngilizce

## Programlar

Java, C#, GAMS  
IBM ILOG OPL

## Profil sayfaları

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

## Scopus atıf ölçütleri

h-index: 20  
toplam atıf: 989

## 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

- Ara 2019 – Halen **Doçent Doktor**  
Balıkesir Üniversitesi, Endüstri Mühendisliği
- Eyl 2017 – Ara 2019 **Dr. Öğr. Üyesi**  
Balıkesir Üniversitesi, Endüstri Mühendisliği
- Ara 2015 – Eyl 2017 **Araştırma Görevlisi**  
Balıkesir Üniversitesi, Endüstri Mühendisliği
- Oca 2012 – Ara 2015 **Lisansüstü Araştırmacı**  
University of Exeter, College of Engineering,  
Mathematics and Physical Sciences
- Ara 2009 – Oca 2012 **Araştırma Görevlisi**  
Balıkesir Üniversitesi, Endüstri Mühendisliği

## Editöryal görevler

- 2016 – Halen **Alan Editörü**  
An International Journal of Optimization and Control: Theories & Applications
- 2012 – Halen **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 üç boyutlu yazıcılarda üretim planlama problemleri dahil üretim sistemlerinin modellenmesi ve optimizasyonu; bu problemlerin sezgisel/meta-sezgisel algoritmalar ve etmen temelli yaklaşımlar kullanılarak çözülmesi.

## Burs ve ödüller

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

2018B24 - U-shaped Assembly Line Balancing Under Uncertain Environment  
The International Research Cooperation Seed Fund of Beijing University of Technology (China),  
Beijing University of Technology, 07/2018-12/2019

BAP 2018/131 - Üç Boyutlu Yazıcılarda Üretime Bağlı Gecikmelerin Minimizasyonu  
Balıkesir Üniversitesi, Bilimsel Araştırma Projesi, 06/2018 – 06/2019

BAP 2017/179 - Sıralama-bağımlı karışık-modelli iki-tarafli montaj hatlarının stokastik görev zamanları dikkate alınarak modellenmesi ve optimizasyonu  
Balıkesir Üniversitesi, Bilimsel Araştırma Projesi, 06/2017 – 12/2018

BAP 2011/40 – Karışık modelli montaj hattı dengeleme problemleri ve genetik algoritmalar ile bir uygulama  
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)

Models and two-phase bee algorithms for multi-objective U-shaped disassembly line balancing problem  
Zixiang Li, Ibrahim Kucukkoc, Qihua Tang, Zikai Zhang  
Optimization and Engineering (Accepted).  
<http://doi.org/10.1007/s11081-021-09696-y>

Enhanced branch-bound-remember and iterative beam search algorithms for type II assembly line balancing problem  
Zixiang Li, Ibrahim Kucukkoc, Qihua Tang  
Computers & Operations Research, 131, 105235, 2021.  
<http://doi.org/10.1016/j.cor.2021.105235>

Two-sided assembly line balancing that considers uncertain task time attributes and incompatible task sets  
Yuchen Li, Ibrahim Kucukkoc, Xiaowen Tang  
International Journal of Production Research, 59(6), 1736-1756, 2021.  
<http://doi.org/10.1080/00207543.2020.1724344>

Balancing of Two-sided Disassembly Lines: Problem Definition, MILP Model and Genetic Algorithm Approach  
Ibrahim Kucukkoc  
Computers & Operations Research, 124, 105064, 2020.  
<http://doi.org/10.1016/j.cor.2020.105064>

A comparative study of exact methods for the simple assembly line balancing problem  
Zixiang Li, Ibrahim Kucukkoc, Qihua Tang  
Soft Computing, 24, pp. 11459-11475, 2020.  
<http://doi.org/10.1007/s00500-019-04609-9>

- System reliability optimization for an assembly line under uncertain random environment  
Yuchen Li, Rui Peng, Ibrahim Kucukkoc, Xiaowen Tang, Fang Wei  
Computers & Industrial Engineering, 146, 106540, 2020.  
<http://doi.org/10.1016/j.cie.2020.106540>
- Branch, bound and remember algorithm for two-sided assembly line balancing problem  
Zixiang Li, Ibrahim Kucukkoc, Zikai Zhang  
European Journal of Operational Research, 284(3), 896-905, 2020.  
<http://doi.org/10.1016/j.ejor.2020.01.032>
- Type-E disassembly line balancing problem with multi-manned workstations  
Ibrahim Kucukkoc, Zixiang Li, Yuchen Li  
Optimization and Engineering, 21(2), 611-630, 2020.  
<http://doi.org/10.1007/s11081-019-09465-y>
- A fast branch, bound and remember algorithm for disassembly line balancing problem  
Zixiang Li, Zeynel Cil, Suleyman Mete, Ibrahim Kucukkoc  
International Journal of Production Research, 58(11), pp. 3220-3234, 2020.  
<http://doi.org/10.1080/00207543.2019.1630774>
- Iterated local search method and mathematical model for sequence-dependent U-shaped disassembly line balancing problem  
Zixiang Li, Ibrahim Kucukkoc, Zikai Zhang  
Computers & Industrial Engineering, 137, 106056, 2019.  
<http://doi.org/10.1016/j.cie.2019.106056>
- A dynamic order acceptance and scheduling approach for additive manufacturing on-demand production  
Qiang Li, David Z. Zhang, Shilong Wang, Ibrahim Kucukkoc  
The International Journal of Advanced Manufacturing Technology, 105(9), 3711-3729, 2019.  
<http://doi.org/10.1007/s00170-019-03796-x>
- MILP models to minimise makespan in additive manufacturing machine scheduling problems  
Ibrahim Kucukkoc  
Computers and Operations Research, 105C, pp. 58-67, 2019.  
<http://doi.org/10.1016/j.cor.2019.01.006>
- Balancing of mixed-model two-sided assembly lines with underground workstations: A mathematical model and ant colony optimization algorithm  
Ibrahim Kucukkoc, Zixiang Li, Aslan Deniz Karaoglan, David Z. Zhang  
International Journal of Production Economics, 205, pp. 228-243, 2018.  
<http://doi.org/10.1016/j.ijpe.2018.08.009>
- Branch, bound and remember algorithm for U-shaped assembly line balancing problem  
Zixiang Li, Ibrahim Kucukkoc, Zikai Zhang  
Computers & Industrial Engineering, 124, pp. 24-35, 2018.  
<http://doi.org/10.1016/j.cie.2018.06.037>
- Incorporating draw constraint in the lightweight and self-supporting optimisation process for selective laser melting,  
Li, Z., Zhang, D.Z., Dong, P., Kucukkoc, I., Peikang, B.  
The International Journal of Advanced Manufacturing Technology, 98 (1-4), pp. 405-412, 2018.  
<http://doi.org/10.1007/s00170-018-2251-z>
- The influence of scan length on fabricating thin-walled components in selective laser melting  
Li, Z., Xu, R., Zhang, Z., Kucukkoc, I.  
International Journal of Machine Tools and Manufacture, 126, pp. 1-12, 2018.  
<http://doi.org/10.1016/j.ijmactools.2017.11.012>
- Optimising the process parameters of selective laser melting for the fabrication of Ti6Al4V alloy  
Li, Z., Kucukkoc, I., Zhang, D. Z., Liu, F.  
Rapid Prototyping Journal, 24(1), pp. 150-159, 2018.  
<http://doi.org/10.1108/RPJ-03-2016-0045>

- 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>
- New MILP model and station-oriented ant colony optimization algorithm for balancing U-type assembly lines  
Li, Z., Kucukkoc, I., Tang, Q.  
Computers & Industrial Engineering, 112, pp. 107-121, 2017.  
<http://doi.org/10.1016/j.cie.2017.07.005>
- Balancing of mixed-model parallel U-shaped assembly lines considering model sequences  
Kucukkoc, I., Zhang, D. Z.  
International Journal of Production Research, 55(20), pp. 5958-5975, 2017.  
<http://doi.org/10.1080/00207543.2017.1312586>
- 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, 84C, pp. 146-161, 2017.  
<http://doi.org/10.1016/j.cor.2017.03.002>
- 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, 90(9), pp. 2943-2953, 2017.  
<http://doi.org/10.1007/s00170-016-9509-0>
- 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)

Combined facility location and distribution network design problem: Progressive models and a case study

Kucukkoc, I., Acar, M.

Pamukkale University Journal of Engineering Sciences, 26 (1), pp. 157-173,

<http://doi.org/10.5505/pajes.2019.11456>

A nondominated sorting ant colony optimization algorithm for complex assembly line balancing problem incorporating incompatible task sets

Kucukkoc, I.

Pamukkale University Journal of Engineering Sciences, 24 (1), pp. 147-153,

<http://doi.org/10.5505/pajes.2017.02350>

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), pp. 405-425, 2013.

<http://doi.org/10.1504/IJLSM.2013.052745>

## 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.

## Kitap bölümleri

2D Nesting and Scheduling in Metal Additive Manufacturing

Ibrahim Kucukkoc, Zixiang Li, Qiang Li

In: Rossit D.A., Tohmé F., Mejía Delgado G. (eds) Production Research. ICPR-Americas 2020.

Communications in Computer and Information Science, vol 1407. Springer, Cham. (2021).

Metal Additive Manufacturing: Nesting vs. Scheduling

Ibrahim Kucukkoc

In: Adriano Masone, Veronica Dal Sasso, Valentina Morandi (eds) Optimization and Data Science:

Trends and Applications, Springer International Publishing (2021).

A Differential Evolution Algorithm for Balancing Mixed-Model Disassembly Lines

Ibrahim Kucukkoc, Gulsen Aydin Keskin, Zixiang Li

In: Eren Ozceylan, Surendra M. Gupta (eds) Sustainable Production and Logistics: Modeling and Analysis, CRC Press (2021).

Heuristic Techniques for Real-time Order Acceptance and Scheduling in Metal Additive Manufacturing

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

Mathematical Modelling and Optimization of Engineering Problems, 30, 1-24, Springer (2020).

Distance Constrained Vehicle Routing Problems: A Case Study using Artificial Bee Colony Algorithm

Karaoglan, A. D., Atalay, I., Kucukkoc, I.

Mathematical Modelling and Optimization of Engineering Problems, 30, 157-173, Springer (2020).

A Non-dominated Sorting Approach to Bi-objective Optimisation of Mixed-Model Two-Sided Assembly Lines

Kucukkoc, I.

In: Lirkov I., Margenov S. (eds) Large-Scale Scientific Computing. LSSC 2017. Lecture Notes in Computer Science, vol 10665, Springer (2018).

## **Uluslararası hakemli bilimsel toplantılar-*tam metin***

Metal Additive Manufacturing: Nesting vs. Scheduling

Ibrahim Kucukkoc

5th AIROYoung Workshop "Optimization and Data Science: Trends and Applications", 10-12 Şubat 2021, Naples, Italy.

New Algorithms for Two-Sided Disassembly Line Balancing Problem

Zixiang Li, Ibrahim Kucukkoc and Mukund Nilakantan Janardhanan

2nd International Conference on Applied Mathematics in Engineering (ICAME'21), 1-3 Eylül 2021, Balıkesir, Turkey.

Mathematical formulation and meta-heuristic algorithms for cost-oriented two-sided assembly line balancing problem

Zixiang Li, Sadegh Niroomand and Ibrahim Kucukkoc

11th International Symposium on Intelligent Manufacturing and Service Systems, 27-29 Mayıs 2021, Sakarya, Turkey.

2D Nesting and Scheduling in Metal Additive Manufacturing

Ibrahim Kucukkoc, Zixiang Li and Qiang Li

The International Conference of Production Research, ICPR - Americas 2020, 9-11 Aralık 2020, Bahia Blanca, Argentina.

Dynamic Order Acceptance and Scheduling Approach for On-demand Production with Additive Manufacturing by Considering Idle Costs

Qiang Li, David Zhang and Ibrahim Kucukkoc

The International Conference of Production Research, ICPR - Americas 2020, 9-11 Aralık 2020, Bahia Blanca, Argentina.

Type-1 U-shaped Assembly Line Balancing under uncertain task time

Yuchen Li, Xiaofeng Hu, Xiaowen Tang, Ibrahim Kucukkoc

9th IFAC Conference on Manufacturing Modelling, Management and Control (MIM2019), 28-30 Ağustos 2019, Berlin.

Order acceptance and scheduling in direct digital manufacturing with additive manufacturing

Qiang Li, David Z Zhang, Ibrahim Kucukkoc

9th IFAC Conference on Manufacturing Modelling, Management and Control (MIM2019), 28-30 Ağustos 2019, Berlin.

The Belief Reliability Optimization for a U-shaped Assembly Line

Yuchen Li, Ibrahim Kucukkoc, Xiaowen Tang

11th International Conference on Mathematical Methods in Reliability (MMR2019), 3-7 Haziran 2019, Hong Kong.

Branch and bound algorithm with new lower bounding methods for U-shaped assembly line balancing problem

Li, Z., Kucukkoc, I.

Proceedings of 12th International Conference on Challenges in Industrial Engineering and Operations Management, 11-12 September 2018, Ankara, page 117 (*published as a book chapter by Springer*).

Scheduling of Multiple Additive Manufacturing and 3D Printing Machines to Minimise Maximum Lateness

Kucukkoc, I., Li, Q., He, N., Zhang, D.

In Grubbström, R.W, Hinterhuber, H.H., (Eds), PrePrints, 20th International Working Seminar on Production Economics, Innsbruck, Austria, February 19-23, vol. 1, pages 237-247.

Order Acceptance and Scheduling in Metal Additive Manufacturing: An Optimal Foraging Approach,

Li, Q., Kucukkoc, I., He, N., Zhang, D., Wang, S.

In Grubbström, R.W, Hinterhuber, H.H., (Eds), PrePrints, 20th International Working Seminar on Production Economics, Innsbruck, Austria, February 19-23, vol. 1, 225-235.

A non-dominated sorting approach to bi-objective optimisation of mixed-model two-sided assembly lines

Kucukkoc, I.

11th International Conference on Large-Scale Scientific Computations, Sozopol, Bulgaria, June 5-9, 2017, 8 pages (to be published as full text in Springer Lecture Notes in Computer Science).

Scheduling Customized Orders: A Case Study at Best Transformers Company

Ocaktan, M.A. B., Kucukkoc, I., Karaoglan, A. D., Cicibas, A., Buyukozkan, K.

The 6th International Conference on Mechanics and Industrial Engineering (ICMIE'17), Rome, Italy, June 8-10, 2017, ID:118, 8 Pages, DOI: 10.11159/icmie17.118.

Rebalancing of mixed-model two-sided assembly lines with incompatible task groups: An industrial case study

Zhang, D. Z., Kucukkoc, I., Karaoglan, A. D.

46th International Conference on Computers and Industrial Engineering (CIE46), Tianjin, China, October 29-31, 2016, ID:170, 8 pages.

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

Integrated Assembly Line Balancing and Feeding Problem

Kucukkoc, I., Pilati, F.

In Proceedings of the First International Conference on Applied Mathematics in Engineering (ICAME'18), Balıkesir, Turkey, June 27-29, Page 21.

New Optimal Solutions for Additive Manufacturing Production Planning Problem to Minimise Cost

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

In Proceedings of the First International Conference on Applied Mathematics in Engineering (ICAME'18), Balıkesir, Turkey, June 27-29, Page 26.

Application of Artificial Bee Colony Algorithm for Distance Restricted Vehicle Routing Problem

Karaoglan A. D., Atalay, I., Kucukkoc, I.

In Proceedings of the First International Conference on Applied Mathematics in Engineering (ICAME'18), Balıkesir, Turkey, June 27-29, Page 241.

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

Üç Boyutlu Baskı Makinelerinde İş Çizelgeleme: Genetik Algoritma Tabanlı Bir Yaklaşım

Demirkaya, A., Kucukkoc, I.

39th Operations Research/Industrial Engineering National Congress, Başkent University, June 12-14, 2019.



Paralel Üç Boyutlu Yazıcı Çizelgeleme Problemi: Toplam Gecikme ve Ağırlıklı Geciken İş Sayısının Minimizasyonu

Yunso, M., Kucukkoc, I.

39th Operations Research/Industrial Engineering National Congress, Başkent University, June 12-14, 2019.

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.

## Komite görevleri

Organize Komitesi Üyeliği

2<sup>nd</sup> International Conference on Applied Mathematics in Engineering (ICAME'21), 1-3 Eylül 2021, Balıkesir, Turkey

48. International Conference on Computers & Industrial Engineering (CIE48), 2-5 Aralık 2018, Wellington, Yeni Zelanda

International Conference on Applied Mathematics in Engineering (ICAME'18), 27-29 June 2018, Balıkesir, Turkey

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

11th International Symposium on Intelligent Manufacturing and Service Systems (IMSS'21), 27-29 Mayıs 2021, Sakarya, Turkey

12th International Conference on Challenges in Industrial Engineering and Operations Management, 11-12 September 2018, Ankara, Turkey

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, January 2015, Mumbai

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

## Hakemlikler

Information Sciences, Elsevier, 2016 – Present

International Journal of Production Economics, Elsevier, 2016 – Present

Computers & Operations Research, Elsevier, 2015 – Present

IEEE Transactions on Systems, Man and Cybernetics: Systems, 2018 – Present

Journal of Manufacturing Systems, 2021 – Present

Expert Systems with Applications, Elsevier, 2016 – Present

Applied Soft Computing, Elsevier, 2013 – Present

Applied Mathematical Modelling, Elsevier, 2015 – Present

International Journal of Production Research, Taylor & Francis, 2014 – Present

The International Journal of Advanced Manufacturing Technology, 2018 – Present

Assembly Automation (AA), Emerald, 2012 – Present

Journal of Intelligent Manufacturing, Springer, 2017 – Present

Flexible Services and Manufacturing Journal, 2018 – Present

Engineering Optimization, Taylor & Francis, 2016 – Present  
Journal of Facilities Management (JFM), Emerald, 2013 – Present  
Neural Computing and Applications (NCA), Springer, 2013 – Present  
International Journal of Industrial Engineering: Theory, Applications and Practice, 2014 – Present  
Production & Manufacturing Research: An Open Access Journal, Taylor & Francis, 2013 – Present  
The South African Journal of Industrial Engineering (SAJIE), 2013 – Present  
Iberoamerican Journal of Industrial Engineering (IJIE), 2013 – Present  
Journal of Industrial and Management Optimization, 2016 - Present  
Gazi University Journal of Science (GUJS), Part A: Engineering and Innovation, 2014 – Present

## Öğretim etkinliği

### Balıkesir Üniversitesi

*Son 5 Yılda Verilen Dersler:*

ENM5223 – Endüstri Mühendisliğinde İleri Programlama Uygulamaları, Lisansüstü  
ENM5127 – Doğa Esinli Hesaplama, Lisansüstü  
ENM5128 – Üretim ve Servis Sistemlerinde Çizelgeleme, Lisansüstü  
EMM3121 – Üretim Planlama ve Kontrolü, Lisans  
BIL1202 – Algoritma ve Programlamaya Giriş, Lisans  
EMM3208 – Optimizasyon Teknikleri, Lisans  
EMM4208 – Montaj Hattı Tasarımı ve Analizi, Lisans  
EMM4129 – Çizelgeleme, Lisans  
EMM3115 – İleri Programlama, Lisans  
EMM4131 – Popülasyon Temelli Algoritmalar, Lisans

### Beykoz Üniversitesi

60542TATOZ-ISL0195 – Yöneylem Araştırması, Lisans  
60542TAE0Z-BUS0175 – Operations Research, Lisans

### University of Exeter

Asiste edilen dersler:

ECM1101 – Professional Studies and Skills Development  
2014/15 (T2)

ECM3171 – Computer Aided Engineering Drawing  
2014/15 (T1)

ECM2106 – Manufacturing Systems  
2013/14 (T2)

ECM1101 – Professional Studies and Skills Development  
2012/13 (T2)