ibrahim**kucukkoc**

industrial engineering, research assistant

contact	education	
Balikesir University Industrial Engineering Dept. Cagis Campus, Balikesir Turkey	2012 – 2015	PhD in Manufacturing Engineering University of Exeter, Exeter, England Thesis: Modelling and Solving Mixed-model Parallel Two-sided Assembly Line Problems
tel: +902666121194 (Ext.4305)	2010 – 2011	MSc in Industrial Engineering Balikesir University, Balikesir, Turkey
email: i.kucukkoc[at]exeter.ac.uk ibrahimkucukkoc[at]gmail.com	2009 – 2010	MSc in Industrial Engineering (<i>Transferred to Balikesir Uni.</i>) Selcuk University, Konya, Turkey
web: http://ikucukkoc.baun.edu.tr	2005 – 2009	BSc in Industrial Engineering Selcuk University, Konya, Turkey
	academic positions	
languages fluent turkish and english	2016 – Now	Balikesir University Research Assistant, Industrial Engineering
programming Java, CPLEX, GAMS, Witness, Solidworks	2012 – 2016	University of Exeter Postgraduate Researcher, College of Engineering, Mathematics and Physical Sciences
	2009 – 2012	Balikesir University Research Assistant, Industrial Engineering
profile pages scopus	editorial	activities
orcid researcherID researchgate google scholar	2016 – Now	Area Editor An International Journal of Optimization and Control: Theories & Applications
google citation metrics h-index: 7 i10-index: 6 citations: 149 (as of Nov 2016)	2016 – Now	Editorial Board Member Peertechz Journal of Computer Science and Engineering
	2014 – Now	Editorial Board Member News in Engineering
	2013 – Now	Editorial Board Member Journal of Computer Sciences and Applications (JCSA)
professional membership EUROPT SSAISB DAAM APICS OR Society UK IBM Academic Initiative	2012 – 2014	Section Editor IAES International Journal of Artificial Intelligence (IJ-AI)
	2010 – 2016	Technical Editor An International Journal of Optimization and Control: Theories & Applications
	2013	Co-keynote Editor The OR Society, OR55 Annual Conference, 3-5 September 2013, Exeter, UK
	2013	Keynote Editor The OR Society, YOR18 Conference, 9-11 April 2013, Exeter, UK

interests

Modelling and optimisation of manufacturing systems including assembly line balancing and production planning problems; and their heuristic/meta-heuristic implementations as well as agent based approaches.

awards

TÜBİTAK International Scientific Publication Encouragement Award 2013, 2014, 2015, 2016

Artificial Intelligence, An International Journal (Elsevier)
AISB 2013 Convention Registration Award, April 3-5, 2013

PhD Scholarship

Turkish Council of Higher Education, 01/2012 - 01/2016

Master Scholarship

TÜBİTAK BIDEB - 2210, 09/2010 - 07/2011

projects

Mixed Model Assembly Line Balancing Problems and an Application with Genetic Algorithms

Balikesir University, Scientific Research Project, 12/2010 – 07/2011

publications

I have published widely in the top journals and peer-reviewed conferences in my field.

articles in peer-reviewed journals (SCI/SCI-E)

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 (in press). 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 (in press).

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 (in press).

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, (2016), pp. 151-166.

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), (2016), pp. 265-285.

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 (2015), pp. 233-244.

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 (2015), pp. 56-69.

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), (2015), pp. 874-894.

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 (2014), pp. 314–333. 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), (2014), pp. 3665-3687. 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), (2013), pp. 5039-5054. http://doi.org/10.1080/00207543.2013.784411

articles in peer-reviewed journals (other indexes)

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.

peer-reviewed international conferences (full text)

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.

peer-reviewed international conferences (abstract)

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

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

peer-reviewed national conferences (full text)

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.

books

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.

committee roles

Organising Committee Member

19th National Ergonomics Congress, Balikesir University, 27-29 September 2013, Balikesir, Turkey

OR55 Annual Conference, The OR Society, 3-5 September 2013, University of Exeter, England

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

Programme/Scientific Committee Member

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

referee positions

Information Sciences, Elsevier, 2016 - Present

International Journal of Production Economics, Elsevier, 2016 – Present

Computers & Operations Research, Elsevier, 2015 – 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

Assembly Automation (AA), Emerald, 2012 - 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

American Journal of Applied Mathematics and Statistics (AJAMS), 2013 – Present

American Journal of Science and Technology, AASCIT, 2014 – Present

Gazi University Journal of Science (GUJS), Part A: Engineering and Innovation, 2014 – Present

International Journal of Renewable Energy Research (IJRER), 2011 – Present International Journal of Research in Computer Science (IJORCS), 2012 – Present International Journal of Computer Science and Artificial Intelligence (IJCSAI),

2013 - Present

International Journal of Computational Intelligence and Information Security, 2013 – Present

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

teaching experience

I have involved in tutoring/assisting on the following modules:

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)

Balikesir University

Advanced Linear Optimisation, Postgraduate 2010/11

Production Planning, Undergraduate 2010/11

Nonlinear Optimization, Postgraduate 2009/10

Facility Layout Planning, Undergraduate 2009/10

Decision Making, Undergraduate 2009/10