

# Prof. ADİL BAYKASOĞLU

## Personal Information

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**Address:** Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Tınaztepe Yerleşkesi, Adatepe Mah. Doğu Cad. No: 207-E, 35397 Buca, İzmir

## International Researcher IDs

ScholarID: zj6t4sYAAAAJ

ORCID: 0000-0002-4952-7239

Publons / Web Of Science ResearcherID: G-4311-2010

ScopusID: 7004171955

Yoksis Researcher ID: 24698

## Biography

Prof. Dr. Adil Baykasoglu received his B.Sc., M.Sc. and Ph.D. degrees from Mechanical and Industrial Engineering areas in Turkey (Gaziantep) and England (Nottingham). He is presently a full Professor at the [Industrial Engineering Department](#) at the [Dokuz Eylul University](#). He has published numerous academic papers, 3 books and edited several conference books on operational research, computational intelligence, engineering management, and manufacturing systems design. He is also an active editor and referee for many scientific journals.

## Education Information

Doctorate, University of Nottingham, Mühendislik Fakültesi, Production Engineering and Operations Management (Endüstri Mühendisliği), United Kingdom 1996 - 1999

## Certificates, Courses and Trainings

Data Analysis, Temel Düzey R Uygulamaları Eğitimi, AYEUM, Hiras Yazılım, Eğitim & Danışmanlık, 2022

Data Analysis, Veri Analizinde Karar Verme Süreçleri, AYEUM, Hiras Yazılım, Eğitim & Danışmanlık, 2022

## Research Areas

Uncertainty Management, Knowledge Engineering, Fuzzy Sets and Systems, Evolutionary Computing, Neural Networks, Industrial Engineering, Optimization Theory and Methods, Production Planning and Control, Decision Theory, Supply Chain and Logistics Management, Computer Aided Design and Manufacturing, Engineering and Technology

## Academic Titles / Tasks

Professor, Dokuz Eylül University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2011 - Continues

Professor, Gaziantep University, Faculty Of Engineering, Department Of Industrial Engineering, 2007 - 2011

Associate Professor, Gaziantep University, Faculty Of Engineering, Department Of Industrial Engineering, 2002 - 2007

Assistant Professor, Gaziantep University, Faculty Of Engineering, Department Of Industrial Engineering, 1999 - 2002

Research Assistant, Gaziantep University, Faculty Of Engineering, Department Of Industrial Engineering, 1996 - 1999  
Lecturer, Gaziantep University, Faculty Of Engineering, Department Of Mechanical Engineering (English), 1995 - 1996  
Research Assistant, Gaziantep University, Faculty Of Engineering, Department Of Mechanical Engineering (English), 1993 - 1995

## Academic and Administrative Experience

Rectorate Commissioner, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2013 - Continues  
Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2012 - Continues  
Fakülte Kurulu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2011 - 2023  
Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2011 - 2023  
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2016 - 2019  
Enstitü Yönetim Kurulu Üyesi, Gaziantep University, Mimarlık, 2009 - 2011  
Head of Department, Gaziantep University, Faculty Of Engineering, Department Of Industrial Engineering, 2003 - 2011  
Head of Department, Gaziantep University, Mühendislik Fakültesi, Endüstri Mühendisliği, 1999 - 2011  
Head of Department, Gaziantep University, Faculty Of Engineering, Department Of Industrial Engineering, 1999 - 2011  
Fakülte Yönetim Kurulu Üyesi, Gaziantep University, Mühendislik, 2006 - 2007  
BAP Scientific Commissioner, Gaziantep University, Rektörlük, 2003 - 2007  
Erasmus Coordinator, Gaziantep University, Faculty Of Engineering, Department Of Industrial Engineering, 2002 - 2005  
Head of Department, Gaziantep University, Rektörlük, Enformatik Bölümü, 2002 - 2003  
Rectorate Commissioner, Gaziantep University, Rektörlük, Kütüphane Komisyonu, 1999 - 2003

## Courses

Applied Metaheuristics, Postgraduate, 2023 - 2024  
Multiobjective and Multicriteria Programming, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Applied Metaheuristics, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019  
Seminer, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Quantitative Business Analysis II, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Quantative Business Analysis I, Postgraduate, 2023 - 2024  
Quantitative Business Analysis I, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Bitirme Projesi, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Computational Intelligence in Design and Manufacturing, Postgraduate, 2021 - 2022  
KURUMSAL KAYNAK PLANLANMASI, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015  
QUANTİTATİVE BUSINESS ANALYSİS 1, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015  
YÖNEYLEM ARAŞTIRMASI 1, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
Yöneylem Araştırması 2, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
Total Quality Techniques, Postgraduate, 2014 - 2015  
Quantitative Business Analysis 2, Postgraduate, 2014 - 2015  
Quality Management, Undergraduate, 2014 - 2015  
Introduction to Fuzzy Logic, Undergraduate, 2014 - 2015  
Selected Topics on Mathematical Programming, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012  
Quantative Business Analysis 1, Postgraduate, 2013 - 2014, 2012 - 2013  
Quantative Business Analysis 2, Postgraduate, 2013 - 2014, 2012 - 2013

Introduction to Computational Intelligence, Undergraduate, 2013 - 2014  
Introduction to Computational Intelligence, Doctorate, 2013 - 2014  
Computational Intelligence in Design and Manufacturing, Postgraduate, 2012 - 2013  
Business Process Analyses and Modeling, Postgraduate, 2011 - 2012  
Fuzzy Logic and Industrial Applications, Undergraduate, 2011 - 2012, 2010 - 2011  
Modern Management Techniques in Engineering, Postgraduate, 2011 - 2012  
Design of Experiments for Engineers, Undergraduate, 2010 - 2011  
Production and Operations Management , Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001  
Topics in Multiple Objective Decision Making and Optimization, Doctorate, 2010 - 2011  
Design of Experiments for Engineers, Postgraduate, 2010 - 2011  
Network Theory, Postgraduate, 2009 - 2010  
Malzeme ve Lojistik Yönetimi, Undergraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006  
Advanced Object Oriented Analysis and Programming, Postgraduate, 2009 - 2010, 2008 - 2009, 2001 - 2002, 2000 - 2001  
Multiple Objective Decision Making, Undergraduate, 2008 - 2009, 2000 - 2001  
Operations Research 2, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2003 - 2004  
Yöneylem Araştırması, Undergraduate, 2008 - 2009  
Operations Research 1, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2003 - 2004, 2002 - 2003, 2001 - 2002  
Methods of Industrial Engineering, Postgraduate, 2008 - 2009, 2002 - 2003  
Graduation Project, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005  
Integer and Goal Programming, Postgraduate, 2007 - 2008  
Üretim Planlaması, Undergraduate, 2007 - 2008, 2006 - 2007  
Topics in Multiple Objective Decision Making and Optimization, Postgraduate, 2007 - 2008, 2004 - 2005, 2002 - 2003  
System Simulation, Postgraduate, 2007 - 2008, 2001 - 2002  
Advanced Topics in Operations Research, Postgraduate, 2007 - 2008  
Advanced Heuristics in Engineering, Postgraduate, 2006 - 2007, 2002 - 2003, 2001 - 2002, 2000 - 2001  
Facilities Design and Planning , Undergraduate, 2006 - 2007, 2004 - 2005  
Logistics and Supply Chain Management , Postgraduate, 2006 - 2007, 2005 - 2006  
Operations Research I , Undergraduate, 2005 - 2006, 2004 - 2005, 2001 - 2002  
Case Studies in Industrial Engineering, Undergraduate, 2005 - 2006, 2002 - 2003, 2001 - 2002  
Activity Based Costing, Postgraduate, 2005 - 2006, 2003 - 2004  
Benchmarking, Postgraduate, 2005 - 2006  
Advanced Topics in Facility Layout and Location, Postgraduate, 2005 - 2006, 2001 - 2002  
Operations Research II, Undergraduate, 2004 - 2005  
Fuzzy Systems and Control, Postgraduate, 2004 - 2005  
Knowledge Discovery and Data Mining, Postgraduate, 2003 - 2004  
Logistics, Undergraduate, 2003 - 2004  
Computer Programming 2, Undergraduate, 2003 - 2004  
Cellular Manufacturing , Postgraduate, 2003 - 2004  
Cellular Manufacturing and Group Technology, Undergraduate, 2003 - 2004, 2000 - 2001  
Discrete and Combinatorial Mathematics, Postgraduate, 2003 - 2004  
Work Study, Undergraduate, 2002 - 2003  
Computer Programming I, Undergraduate, 2002 - 2003  
Computer Applications to Industrial Problems, Postgraduate, 2002 - 2003  
Production Plant Design, Undergraduate, 2002 - 2003, 2001 - 2002, 2000 - 2001  
Data Structures and Algorithms, Undergraduate, 2002 - 2003  
Computer Programming II, Undergraduate, 2002 - 2003  
Introduction to Industrial Engineering, Undergraduate, 2002 - 2003  
Total Quality Management, Undergraduate, 2001 - 2002  
Computer Programming 1, Undergraduate, 2001 - 2002

Computer Programming, Undergraduate, 2001 - 2002

Introduction to Concurrent Engineering, Undergraduate, 2001 - 2002

## Advising Theses

- Baykasoğlu A., Meta-sezgisel yöntemler ile üretim hatlarının yeniden dengelenmesi, Doctorate, T.ÇİMEN(Student), 2023
- Baykasoğlu A., Generating Solutions for Data-Driven Decision Making Problems based on Bayesian Models, Doctorate, S.ÇALI(Student), 2023
- Baykasoğlu A., Optimal sizing of raw materials in carton box industries, Postgraduate, İ.KARAMAN(Student), 2023
- Baykasoğlu A., Modeling and Solving Dynamic Lot Sizing Problems under Different Production Environments, Doctorate, B.KUBUR(Student), 2022
- Baykasoğlu A., Tam otomatik otopark sistemlerinde operasyonel planlama problemlerinin eş zamanlı ve dinamik optimizasyonu, Doctorate, N.DUDAKLI(Student), 2022
- Baykasoğlu A., Bir öğrenme yönetim sisteminin aksiyomatik tasarım ile kullanılabilirlik değerlendirmesi, Postgraduate, C.ÜNAL(Student), 2022
- Baykasoğlu A., Karmaşık optimizasyon problemlerinin çözümü için metasezgisel algoritmaların paralel hesaplama yoluyla koalisyonu, Doctorate, M.EMRE(Student), 2022
- BAYKASOĞLU A., Farklı üretim ortamlarında dinamik parti büyüklüğü belirleme problemlerinin modellenmesi ve çözümü, Doctorate, B.KUBUR(Student), 2022
- BAYKASOĞLU A., Otoparklarda dinamik fiyatlandırma, Postgraduate, E.ERCAN(Student), 2021
- BAYKASOĞLU A., Dinamik çok kriterli karar verme ile sistem dinamikleri modelinin entegrasyonu, Postgraduate, D.YEŞİLKAYA(Student), 2019
- BAYKASOĞLU A., Bulanık küme ve fonksiyonların seçilen karar mühendisliği problemlerine uygulanması, Doctorate, İ.GÖLCÜK(Student), 2019
- BAYKASOĞLU A., Yatay titreşim koşulları altında bağlantı elemanlarının çözünme oranlarının bilişsel zeka yöntemleri kullanılarak tahmin edilmesi, Postgraduate, A.BIYIK(Student), 2017
- BAYKASOĞLU A., Metasezgisel algoritmaların çoklu etmen benzetim ortamında gerçekleştirilmesi, Postgraduate, M.EMRE(Student), 2017
- BAYKASOĞLU A., Kapasite ve ayar kısıtları altında esnek atölyelerin dinamik çizelgenmesi, Doctorate, F.SELEN(Student), 2017
- BAYKASOĞLU A., Mermer kesme problemlerinin matematiksel programlama ve sezgisel yöntemlerle çözümlenmesi, Postgraduate, B.KUBUR(Student), 2016
- BAYKASOĞLU A., dinamik optimizasyon problemlerinin modellenmesi ve çözümü, Doctorate, F.BURÇİN(Student), 2016
- BAYKASOĞLU A., Belirli çevre koşulları altında filo büyüklüğü optimizasyonu, Postgraduate, N.DUDAKLI(Student), 2016
- BAYKASOĞLU A., Servis sistemlerinde karmaşıklığın modellenmesi ve analizi, Doctorate, E.EKİNCİ(Student), 2016
- BAYKASOĞLU A., Tedarik zincirlerinde belirsizlik altında filo planlama ve ağ optimizasyonu, Doctorate, K.SUBULAN(Student), 2016
- BAYKASOĞLU A., Bir gerçek hayat sisteminde üretim planlama uygulaması, Postgraduate, E.PERÇİNBİLGİ(Student), 2016
- BAYKASOĞLU A., Modelling and solving optimization problems in uncertain/dynamic environments with manufacturing systems examples, Doctorate, F.BURÇİN(Student), 2016
- BAYKASOĞLU A., Montaj hattı tasarım problemlerinin insan faktörleri dikkate alınarak modellenmesi çözümü ve bir uygulama örneği, Postgraduate, N.AKTAŞ(Student), 2015
- BAYKASOĞLU A., Dynamic manufacturing cell formation through market oriented programming, Doctorate, L.GÖRKEMLİ(Student), 2014
- BAYKASOĞLU A., Çok amaçlı meta-sezgisel optimizasyon yaklaşımı ile geliştirilmiş montaj hattı dengeleme, Doctorate, Ş.DEMİRKOL(Student), 2014
- BAYKASOĞLU A., Bulanık fonksiyon yaklaşımının araştırılması ve endüstri mühendisliği problemlerinde olası uygulamaları, Postgraduate, S.MARAL(Student), 2013
- BAYKASOĞLU A., Karma modelli montaj hattı dengeleme probleminin hazırlık zamanları ile modellenmesi ve çözülmesi, Doctorate, Ş.AKPINAR(Student), 2013

BAYKASOĞLU A., Çok kriterli karar verme problemlerinde kriter etkileşim tekniklerinin analizi ve bulanık TOPSIS temelli yeni bir model önerisi, Postgraduate, İ.GÖLCÜK(Student), 2013

BAYKASOĞLU A., Heuristic optimization through negotiation, Doctorate, Z.DİDEM(Student), 2012

BAYKASOĞLU A., A soft computing based approach to integrated process planning and scheduling with setup and machine capacity considerations, Postgraduate, F.ŞENYÜZLÜLER(Student), 2012

BAYKASOĞLU A., Modeling and solving truck-load consolidation problems by using multi-agent technology, Doctorate, V.KAPLANOĞLU(Student), 2011

BAYKASOĞLU A., Evaluating fuel alternatives for electricity generation in Turkey through multiple criteria decision support methodologies, Postgraduate, M.HALİS(Student), 2009

BAYKASOĞLU A., Employing meta-heuristics and fuzzy ranking functions for direct solution of fuzzy mathematical programs, Doctorate, T.GÖÇKEN(Student), 2009

BAYKASOĞLU A., A simulation study to evaluate the effect of flexibility on flow time, Postgraduate, Z.DİDEM(Student), 2009

BAYKASOĞLU A., A simulated based approach to develop new approaches for ?due date assignment? and ?job release? in multi-stage job shops, Doctorate, M.GÖÇKEN(Student), 2009

BAYKASOĞLU A., Development of a process based generic product costing system for SME's and an application to a logistic company, Postgraduate, V.KAPLANOĞLU(Student), 2007

BAYKASOĞLU A., Investigation of the nonwoven fabric production technologies and a cost benefit analysis for the usage of medical textiles, Postgraduate, N.YILANKIRKAN(Student), 2006

BAYKASOĞLU A., Market, location and feasibility analysis of baby diaper production, Postgraduate, A.YILANKIRKAN(Student), 2006

BAYKASOĞLU A., Performance evaluation and strategy development study using AHP and DEA for business centers, Postgraduate, S.HAMDİ(Student), 2005

BAYKASOĞLU A., GIS based multiple criteria decision support system for urban planning problems in Gaziantep, Postgraduate, H.ÇAĞŞIR(Student), 2005

BAYKASOĞLU A., Çok objektifli esnek atölye çizelgeleme problemlerinin sezgisel yöntemlerle modellenmesi, analizi ve çözümü, Doctorate, L.ÖZBAKIR(Student), 2004

BAYKASOĞLU A., Solving two sided assembly line balancing problems with zoning constraints using ant algorithms, Postgraduate, İ.SABUNCU(Student), 2004

BAYKASOĞLU A., Solving fuzzy multiple objective optimization models by using multiple objective tabu search, Postgraduate, T.SEVİM(Student), 2003

## **Advising Graduates (Non-Thesis)**

Baykasoğlu A., Churn analysis and an application using e-commerce data, Masters (Non-Thesis), G.Karakoyun(Student), 2023

Baykasoğlu A., System analysis and design for asset management software development, Masters (Non-Thesis), M.Özdemir(Student), 2023

Baykasoğlu A., Bir işletmede veri güdümlü kestirimci bakım uygulaması , Masters (Non-Thesis,Evening Education), Ş.Tekkol(Student), 2022

Baykasoğlu A., Betonarme istinat duvarlarının optimum tasarımı, Masters (Non-Thesis,Evening Education), G.Kurt(Student), 2020

Baykasoğlu A., İnşaat sektöründe çok kriterli karar verme teknikleri ile yüklenici secimi, Masters (Non-Thesis,Evening Education), Y.Aykurt(Student), 2019

Baykasoğlu A., RFID teknolojisi ile yarı mamul ürün takibi ve bir işletmede örnek uygulama, Masters (Non-Thesis,Evening Education), E.Uslucan(Student), 2019

Baykasoğlu A., Supplier selection by using multiple criteria decision making methods, Masters (Non-Thesis,Evening Education), B.Yağmur(Student), 2018

Baykasoğlu A., Süreç bazlı benzetim ve modelleme yöntemini kullanarak çamaşır makinesi montaj hattı süreç modellemesi ve analiz, Masters (Non-Thesis,Evening Education), H.Meliz(Student), 2017

Baykasoğlu A., Optimization of material cutting and placement operations in wind blade component production, Masters (Non-Thesis, Evening Education), F.Kömürcü(Student), 2017

Baykasoğlu A., ERP sistemi kurulumda kritik başarı faktörlerinin analizi, Masters (Non-Thesis, Evening Education), S.Yorulmaz(Student), 2016

Baykasoğlu A., Ergonomic risk analysis for a television production line, Masters (Non-Thesis, Evening Education), B.Demirkan(Student), 2014

Baykasoğlu A., Solving generalized travelling salesmen problem (GTSP) with teaching learning based optimization (TLBO) algorithm, Masters (Non-Thesis, Evening Education), A.Cansu(Student), 2012

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

- I. **A simulation–optimization-based planning and control system for operations of fully automated parking systems**  
DUDAKLI N., BAYKASOĞLU A.  
Computers and Industrial Engineering, vol.189, 2024 (SCI-Expanded)
- II. **Designing robust capability-based distributed machine layouts with random machine availability and fuzzy demand/process flow information**  
Subulan K., Varol B., Baykasoğlu A.  
SOFT COMPUTING, pp.1-39, 2024 (SCI-Expanded)
- III. **Perceived usability evaluation of learning management systems via axiomatic design with a real life application**  
BAYKASOĞLU A., FELEKOĞLU B., Unal C.  
KYBERNETES, vol.53, no.1, pp.83-101, 2024 (SCI-Expanded)
- IV. **Effect of triggering on the axial crushing behavior of GFRP tubes: Experimental investigation and optimization**  
Baykasoğlu C., Baykasoğlu A., Erdin M. E., Cetin E.  
POLYMER COMPOSITES, no.early view, pp.1-18, 2024 (SCI-Expanded)
- V. **Multi-objective crashworthiness optimization of square aluminum tubes with functionally graded BCC lattice structure filler**  
Baykasoğlu C., Baykasoğlu A., Çetin E.  
INTERNATIONAL JOURNAL OF CRASHWORTHINESS, vol.29, no.1, pp.80-94, 2024 (SCI-Expanded)
- VI. **Performance Evaluation of Different Dispatching Rules and Heuristics in a Fully Automated Parking System**  
Dudakli N., Baykasoglu A.  
Informatica (Netherlands), vol.35, no.1, pp.99-129, 2024 (SCI-Expanded)
- VII. **Performance analyses of weighted superposition attraction-repulsion algorithms in solving difficult optimization problems**  
BAYKASOĞLU A.  
Network: Computation in Neural Systems, 2024 (SCI-Expanded)
- VIII. **Developing a matheuristic for dynamic lot sizing and scheduling problem with an application**  
Kubur Özbek B., Baykasoğlu A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.39, no.1, pp.401-415, 2024 (SCI-Expanded)
- IX. **A matheuristic based solution approach for the general lot sizing and scheduling problem with sequence dependent changeovers and back ordering**  
KUBUR ÖZBEL B., BAYKASOĞLU A.  
INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING COMPUTATIONS, vol.14, pp.115-128, 2023 (SCI-Expanded)
- X. **Location and replenishment problems of disaster stations for humanitarian relief logistics along with an application**

Yörük E., Baykasoğlu A., Avcı M. G.

Natural Hazards, vol.119, no.3, pp.1713-1734, 2023 (SCI-Expanded)

- XI. **A case-oriented computational study for sustainable fleet planning in a battery closed-loop supply chain network under uncertainty**  
Subulan K., Baykasoğlu A.  
Engineering Computations (Swansea, Wales), vol.40, no.7-8, pp.1947-2008, 2023 (SCI-Expanded)
- XII. **Unequal-area capability-based facility layout design problem with a heuristic decomposition-based iterative mathematical programming approach**  
SUBULAN K., Varol B., BAYKASOĞLU A.  
Expert Systems with Applications, vol.214, 2023 (SCI-Expanded)
- XIII. **Experimental investigation of the axial crushing behavior of aluminum/CFRP hybrid tubes with circular-hole triggering mechanism**  
Cetin E., BAYKASOĞLU A., Erdin M. E., Baykasoğlu C.  
Thin-Walled Structures, vol.182, 2023 (SCI-Expanded)
- XIV. **A Bayesian based approach for analyzing customer's online sales data to identify weights of product attributes**  
Çalı S., BAYKASOĞLU A.  
Expert Systems with Applications, vol.210, 2022 (SCI-Expanded)
- XV. **A detailed review and analysis of assembly line rebalancing problems**  
Cimen T., BAYKASOĞLU A., DEMİRKOL AKYOL Ş.  
ASSEMBLY AUTOMATION, no.6, pp.742-760, 2022 (SCI-Expanded)
- XVI. **Coalition of metaheuristics through parallel computing for solving unconstrained continuous optimization problems**  
ŞENOL M. E., BAYKASOĞLU A.  
ENGINEERING COMPUTATIONS, vol.39, no.8, pp.2895-2927, 2022 (SCI-Expanded)
- XVII. **Capability-based machine layout with a matheuristic-based approach**  
BAYKASOĞLU A., SUBULAN K., Hamzadayı A.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.198, 2022 (SCI-Expanded)
- XVIII. **An integrated fleet planning model with empty vehicle repositioning for an intermodal transportation system**  
BAYKASOĞLU A., DUDAKLI N., SUBULAN K., TAŞAN A. S.  
OPERATIONAL RESEARCH, vol.22, no.3, pp.2063-2098, 2022 (SCI-Expanded)
- XIX. **Assembly line rebalancing and worker assignment considering ergonomic risks in an automotive parts manufacturing plant**  
Cimen T., BAYKASOĞLU A., Akyol Ş.  
INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING COMPUTATIONS, vol.13, no.3, pp.363-384, 2022 (SCI-Expanded)
- XX. **Building blocks of the reverse innovation process**  
Dudaklı N., Felekoğlu B., Baykasoğlu A.  
INNOVATION-THE EUROPEAN JOURNAL OF SOCIAL SCIENCE RESEARCH, vol.35, no.2, pp.196-223, 2022 (SSCI)
- XXI. **Chaos and intensification enhanced flower pollination algorithm to solve mechanical design and unconstrained function optimization problems**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
Expert Systems with Applications, vol.184, 2021 (SCI-Expanded)
- XXII. **Greedy randomized adaptive search procedure for simultaneous scheduling of production and preventive maintenance activities in dynamic flexible job shops**  
BAYKASOĞLU A., MADENOĞLU F. S.  
SOFT COMPUTING, vol.25, no.23, pp.14893-14932, 2021 (SCI-Expanded)
- XXIII. **Analysis of rank reversal problems in "Weighted Aggregated Sum Product Assessment" method**  
Baykasoğlu A., Ercan E.  
SOFT COMPUTING, vol.25, no.24, pp.15243-15254, 2021 (SCI-Expanded)

- XXIV. **Mathematical programming approach to productivity improvement in wind turbine-blade manufacturing through a case study**  
Baykasoğlu A., Dudaklı N., Senol M. E., Komurcu F.  
ENGINEERING WITH COMPUTERS, vol.37, no.4, pp.3843-3856, 2021 (SCI-Expanded)
- XXV. **Explicit flow-risk allocation for cooperative maximum flow problems under interval uncertainty**  
BAYKASOĞLU A., Kubur Özbel B.  
Operational Research, vol.21, pp.2149-2179, 2021 (SCI-Expanded)
- XXVI. **Optimising cutting conditions for minimising cutting time in multi-pass milling via weighted superposition attraction-repulsion (WSAR) algorithm**  
Baykasoğlu A.  
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.59, no.15, pp.4633-4648, 2021 (SCI-Expanded)
- XXVII. **A species-based flower pollination algorithm with increased selection pressure in abiotic local pollination and enhanced intensification**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
KNOWLEDGE-BASED SYSTEMS, vol.225, 2021 (SCI-Expanded)
- XXVIII. **Weighted superposition attraction-repulsion (WSAR) algorithm for truss optimization with multiple frequency constraints**  
BAYKASOĞLU A., BAYKASOĞLU C.  
STRUCTURES, vol.30, pp.253-264, 2021 (SCI-Expanded)
- XXIX. **Modeling and solving a real-world cutting stock problem in the marble industry via mathematical programming and stochastic diffusion search approaches**  
BAYKASOĞLU A., Ozbel B. K.  
COMPUTERS & OPERATIONS RESEARCH, vol.128, 2021 (SCI-Expanded)
- XXX. **Alpha-cut based fuzzy cognitive maps with applications in decision-making**  
BAYKASOĞLU A., Golcuk I.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.152, 2021 (SCI-Expanded)
- XXXI. **Weighted superposition attraction algorithm for binary optimization problems**  
BAYKASOĞLU A., ÖZSOYDAN F. B., Senol M. E.  
OPERATIONAL RESEARCH, vol.20, no.4, pp.2555-2581, 2020 (SCI-Expanded)
- XXXII. **Enhanced superposition determination for weighted superposition attraction algorithm**  
BAYKASOĞLU A., AKPINAR Ş.  
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**XXVI. Parallel Weighted Superposition Attraction Algorithm for Solving Permutation Flow Shop Scheduling Problems**

BAYKASOĞLU A., ŞENOL M. E.

The 1st Online Conference on Algorithms, 27 September 2021

**XXVII. Karton Kutu Üretiminde Hammadde Firelerinin ve Stok Maliyetlerinin Enazlanması**

Sipahi İ., Baykasoğlu A., Subulan K.

YONAR/MU 2021: Yönetim Araştırmaları / Mühendislik Uygulamaları Sempozyumu, İstanbul, Turkey, 01 June 2021, pp.17-18

**XXVIII. Karmaşık Problemlerin Çözümü İçin Metasezgisel Algoritmaların Paralel Hesaplama Yoluyla Koalisyonu**

Baykasoğlu A., Şenol M. E.

YONAR/MU 2021: Yönetim Araştırmaları / Mühendislik Uygulamaları Sempozyumu, İstanbul, Turkey, 01 June 2021, pp.131

**XXIX. Capability-based distributed layout design with random machine availability and fuzzy demand/process flow data**

SUBULAN K., Varol B., BAYKASOĞLU A.

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**XXX. Designing dartboards with genetic algorithms**

Varol B., BAYKASOĞLU A., SUBULAN K.

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**XXXI. Pricing and revenue management in car parks: Literature review and a model proposal**

ERCAN E., BAYKASOĞLU A.

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**XXXII. Capability-based distributed layout design with demand and process flow information**

BAYKASOĞLU A., SUBULAN K.

International Design and Engineering Symposium Sustainability, Innovation, Production, İzmir, Turkey, 10 - 12 October 2019, pp.373-379

**XXXIII. Genetic Algorithm Methods for Solving Assembly Line Re-Balancing Problem: A Review**

Çimen T., BAYKASOĞLU A.

International Design and Engineering Symposium Sustainability, Innovation, Production, İzmir, Turkey, 10 - 12 October 2019, pp.316-321

**XXXIV. Predicting energy absorption parameters of aluminum lattice structures filled tubes via artificial neural networks**

ÇETİN E., BAYKASOĞLU C., BAYKASOĞLU A.

The International Aluminium-Themed Engineering and Natural Sciences Conference (IATENS'19), Seydişehir, Turkey, 4 - 06 October 2019, pp.532-536

**XXXV. Dual-resource constrained flexible job shop scheduling problem with weighted superposition attraction algorithm**

MADENOĞLU F. S., BAYKASOĞLU A.

HORA 2019: International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Nevşehir, Turkey, 5 - 07 July 2019, pp.167-170

**XXXVI. Data-driven multi-criteria decision making in decision engineering**

BAYKASOĞLU A.

International Conference on Data Science, Machine Learning and Statistics 2019 (DMS-2019), Van, Turkey, 26 - 29 June 2019, pp.73-75

**XXXVII. A hybrid metaheuristic approach for solving vehicle routing problem with mixed pickup and delivery**

HAMZADAYI A., BAYKASOĞLU A., AKPINAR Ş.

International Conference on Data Science, Machine Learning and Statistics 2019 (DMS-2019), Van, Turkey, 26 - 29 June 2019, pp.70-72

- XXXVIII. **Karbon salinimini dikkate alan mermer tedarik zinciri probleminin optimizasyonu**  
KUBUR B., BAYKASOĞLU A.  
ERASMUS International Academic Research Symposium on Science, Engineering and Architecture Sciences, İzmir, Turkey, 5 - 06 April 2019, pp.271-298
- XXXIX. **Metaheuristic algorithm for unrelated parallel machine capacitated lot sizing and scheduling problem with sequence-dependent setup times and machine eligibility restrictions**  
KUBUR B., BAYKASOĞLU A.  
ERASMUS International Academic Research Symposium on Science, Engineering and Architecture Sciences, İzmir, Turkey, 5 - 06 April 2019, pp.299-307
- XL. **Analysis of key performance indicators in a manufacturing plant via fuzzy cognitive maps**  
BAYKASOĞLU A., Atalay Z. N., Golcuk I.  
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- XLI. **Dynamic Optimization in a Dynamic Industry**  
Baykasoğlu A.  
International Conference on Artificial Intelligence towards Industry 4.0, Hatay, Turkey, 15 - 17 November 2018, pp.1
- XLII. **Production Planning Decisions with Order Acceptance**  
BAYKASOĞLU A., KUBUR B.  
6th International GAP Engineering Conference - GAP2018, 8 - 10 November 2018
- XLIII. **Multi-Machine Capacitated Lot-Sizing and Scheduling Problem**  
BAYKASOĞLU A., KUBUR B.  
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- XLIV. **Factors Affecting Innovation in Software Companies**  
FELEKOĞLU B., BAYKASOĞLU A., safati b.  
İZCEAS 2018:New Trends in Economics and Administrative Sciences-İzmir International Congress on Economics and Administrative Sciences, 5 - 08 November 2018
- XLV. **New Product Idea Selection in Software Sector**  
BAYKASOĞLU A., FELEKOĞLU B., başlı h.  
İZCEAS 2018:New Trends in Economics and Administrative Sciences-İzmir International Congress on Economics and Administrative Sciences, 5 - 08 November 2018
- XLVI. **A Metaheuristic Solution Method for Solving Multi Constrained Assembly Line Rebalancing and Worker Assignment Problem**  
Çimen T., BAYKASOĞLU A., DEMİRKOL AKYOL Ş.  
ISEOS 2018: 19th International Symposium on Econometrics, Operations Research and Statistics, 17 - 20 October 2018
- XLVII. **Weighted Superposition Attraction Algorithm for Type-I Mixed-Model Assembly Line Balancing Problem**  
AKPINAR Ş., BAYKASOĞLU A.  
ISEOS 2018: 19th International Symposium on Econometrics, Operations Research and Statistics, 17 - 20 October 2018
- XLVIII. **Forecasting Annual Electricity Consumption of Turkey via Grey Prediction Approach**  
KUBUR B., BAYKASOĞLU A.  
ICONST 2018: International Conference on Science and Technology, 5 - 09 September 2018
- XLIX. **Encouraging Factories to Process Innovation: A Game Theory Approach**  
KUBUR B., BAYKASOĞLU A.  
ICONST 2018: International Conference on Science and Technology, 5 - 09 September 2018
- L. **A flower pollination algorithm for improving cluster analysis**  
GÖLCÜK İ., BAYKASOĞLU A., ÖZSOYDAN F. B.

- International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.186
- Ll. **A cultural algorithm for mechanical design optimization**  
GÖLCÜK İ., BAYKASOĞLU A., ÖZSOYDAN F. B.  
International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.187
- LII. **Weighted Superposition Attraction Algorithm for Multi-Manned Assembly Line Balancing**  
Şenol M. E., Baykasoğlu A., Kılınççı Ö.  
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- LIII. **Fully Automated Parking Systems: An Environmentally Friendly Solution for Parking Space Problem in Cities**  
BAYKASOĞLU A., DUDAKLI N., ÖZSOYDAN F. B.  
INTERNATIONAL CONFERENCE ONGOOD LOCAL GOVERNANCE, İzmir, Turkey, 13 - 14 April 2018, pp.37
- LIV. **Evaluation of Different Dispatching Rule-Based Algorithms in Fully Automated Parking Systems**  
BAYKASOĞLU A., DUDAKLI N., ÖZSOYDAN F. B.  
International Conference on Computer Technologies and Development, İstanbul, Turkey, 24 - 26 March 2018, pp.23-24
- LV. **A mathematical programming and particle swarm based optimization algorithm for solving dynamic lot sizing and scheduling problem in make-to-order, multi-constrained production environments with an application**  
KUBUR B., BAYKASOĞLU A.  
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- LVI. **A modified binary artificial bee colony algorithm for improving fuzzy c-means clustering performance**  
GÖLCÜK İ., BAYKASOĞLU A., ÖZSOYDAN F. B.  
ISEAIA 2017, Girne, Cyprus (Kktc), 1 - 03 November 2017, pp.26
- LVII. **Particle swarm optimization with a quantum based local search for binary optimization problems**  
ÖZSOYDAN F. B., BAYKASOĞLU A., GÖLCÜK İ.  
ISEAIA 2017, Girne, Cyprus (Kktc), 1 - 03 November 2017, pp.27
- LVIII. **Improving Fuzzy C-Means Clustering via Weighted Superposition Attraction Algorithm**  
BAYKASOĞLU A., GÖLCÜK İ., ÖZSOYDAN F. B.  
THE 5TH INTERNATIONAL FUZZY SYSTEMS SYMPOSIUM, Ankara, Turkey, 14 - 15 October 2017, pp.54
- LIX. **A Decision Support System Based on a Fuzzy-Stochastic Mathematical Program for Intermodal Fleet Planning Problems**  
BAYKASOĞLU A., SUBULAN K., TAŞAN A. S., DUDAKLI N., TURAN M., ÇELİK E., ÜLKER Ö.  
The 5th International Fuzzy Systems Symposium (FUZZYSS'17), Ankara, Turkey, 14 - 15 October 2017, pp.94
- LX. **A Systematic Approach for Building and Analyzing Problem Solving Networks in Open Innovation**  
FELEKOĞLU B., BAYKASOĞLU A., GÖLCÜK İ.  
FUZZYSS 17: 5th International Fuzzy Systems Symposium, Ankara, Turkey, 14 - 15 October 2017
- LXI. **Fuzzy Axiomatic Design Methodology for Selection of Routing Alternatives in Intermodal Transportation**  
BAYKASOĞLU A., SUBULAN K., Şiker G., Atik S.  
FUZZYSS'17: 5th International Fuzzy Systems Symposium, 14 - 15 October 2017, pp.95
- LXII. **Interval Type-2 Fuzzy Cognitive Maps**  
BAYKASOĞLU A.  
FUZZYSS'17: 5th International Fuzzy Systems Symposium, 14 - 15 October 2017, pp.4
- LXIII. **A Constraint Programming Model for a Cubic Cell Formation Problem**  
TOPALOĞLU Ş. A., BAYKASOĞLU A.  
XVIII. International Symposium on Econometrics Operations Research and Statistics, 5 - 07 October 2017
- LXIV. **Simulation Optimization Approach to a Real-Life Make-to-Order Revenue Management System of a Wedding Gown Manufacturing Company**  
SUBULAN K., BAYKASOĞLU A., GÜÇDEMİR H., DUDAKLI N.

2nd International Conference on Economics Business Management and Social Sciences (ICEBSS 2017), Belgrade, Serbia, 10 - 14 May 2017, pp.7

- LXV. **An Integrated Approach to the Vehicle Routing and Container Loading Problems**  
BAYKASOĞLU A., KUBUR B.  
ICAIE: International Conference on Advances and Innovations in Engineering, 10 - 12 May 2017, pp.767
- LXVI. **Effects of Ergonomic Risk Factors of the Working Environment on a Real Life Manufacturing Company**  
DEMİRKOL AKYOL Ş., BAYKASOĞLU A.  
2nd International Conference on Economics Business Management and Social Sciences, Belgrat, Montenegro, 10 - 14 May 2017, pp.15
- LXVII. **Metaheuristic Approach to Joint Preventive Maintenance and Dynamic Flexible Job Shop Scheduling**  
BAYKASOĞLU A., KARASLAN F. S.  
ICAIE: International Conference on Advances and Innovations in Engineering, Elaziğ, Turkey, 10 - 12 May 2017, pp.771
- LXVIII. **Comparison of Various Ergonomic Risk Assessment Techniques with an Application to an Assembly System**  
DEMİRKOL AKYOL Ş., BAYKASOĞLU A.  
2nd International Conference on Economics Business Management and Social Sciences, Belgrat, Montenegro, 10 - 14 May 2017, pp.16
- LXIX. **Analyzing the Effect of Machine Flexibility on the Scheduling Performance through Dynamic Job Shop Scheduling System**  
BAYKASOĞLU A., KARASLAN F. S.  
ICAIE: International Conference on Advances and Innovations in Engineering, Elaziğ, Turkey, 10 - 12 May 2017, pp.772
- LXX. **Comparison of Grey and ARIMA Models for Production Forecasting In Marble Industry**  
BAYKASOĞLU A., KUBUR B.  
International Workshop on Mathematical Methods in Engineering, MME-2017, 27 - 29 April 2017, pp.94
- LXXI. **A GRASP Based Algorithm to Reduce Service Time in Fully Automated Parking System**  
BAYKASOĞLU A., DUDAKLI N., ÖZSOYDAN F. B.  
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, Ankara, Turkey, 27 - 29 April 2017, pp.64
- LXXII. **A Computational Approach for Ergonomic Assembly Line Balancing**  
DEMİRKOL AKYOL Ş., BAYKASOĞLU A.  
International Workshop on Mathematical Methods in Engineering, Ankara, Turkey, 27 - 29 April 2017, pp.61
- LXXIII. **Solving Resource Constrained Project Scheduling Problems via Constraint Programming**  
BAYKASOĞLU A., ŞENOL M. E., DUDAKLI N.  
International Workshop on Mathematical Methods in Engineering, MME-2017, 27 - 29 April 2017, pp.121
- LXXIV. **A New Intermodal Fleet Planning Model via Hybrid Fuzzy-Stochastic Mathematical Programming Method**  
SUBULAN K., BAYKASOĞLU A.  
International Workshop on Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, 27 - 29 April 2017, pp.123-124
- LXXV. **An Interval Programming Model for Balancing Assembly Lines**  
BAYKASOĞLU A., KUBUR B.  
International Workshop on Mathematical Methods in Engineering, MME-2017, 27 - 29 April 2017, pp.94-95
- LXXVI. **A Meta-Heuristic Approach for Evaluating Ergonomic Risk Factors of a Real Life Assembly Line Worker Assignment and Balancing Problem**  
DEMİRKOL AKYOL Ş., BAYKASOĞLU A.  
International Workshop on Mathematical Methods in Engineering, Ankara, Turkey, 27 - 29 April 2017, pp.61
- LXXVII. **Opposition based weighted superposition attraction algorithm for travelling salesman problems**  
BAYKASOĞLU A., ŞENOL M. E.



- XIV. International Logistics and Supply Chain Congress, 1 - 02 December 2016, pp.314-319
- LXXVIII. **Implementation of the balanced scorecard concept under interval type 2 fuzzy environment**  
GÖLCÜK İ., BAYKASOĞLU A.  
XIV. International Logistics and Supply Chain Congress, 1 - 02 December 2016, pp.350-360
- LXXIX. **Cooperative interval game theory and the grey Shapley value approach for solving the maximum flow problem**  
BAYKASOĞLU A., KUBUR B.  
XIV. International Logistics and Supply Chain Congress, 1 - 02 December 2016, pp.53-63
- LXXX. **Multiple traveling salesman game for cost allocation a case problem for school bus services**  
BAYKASOĞLU A., KUBUR B.  
XIV. International Logistics and Supply Chain Congress, 1 - 02 December 2016, pp.64-69
- LXXXI. **Sıra Bagimli hazirlik süreli mermer kesme problemi icin sezgisel bir çözüm yöntemi**  
BAYKASOĞLU A., KUBUR B.  
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, 12 - 14 October 2016
- LXXXII. **An interval linear programming model for marble cutting stock problem**  
BAYKASOĞLU A., KUBUR B.  
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, 12 - 14 October 2016
- LXXXIII. **Solving Dynamic Optimization Problems in Real Life Manufacturing Systems**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, İstanbul, Turkey, 12 - 14 October 2016, pp.910-916
- LXXXIV. **A multiple rule based constructive heuristic algorithm for assembly line worker assignment and balancing problems**  
DEMİRKOL AKYOL Ş., BAYKASOĞLU A.  
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, 12 - 14 October 2016
- LXXXV. **A greedy randomized adaptive search procedure for flexible job shop scheduling problem**  
BAYKASOĞLU A., KARASLAN F. S.  
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, 12 - 14 October 2016
- LXXXVI. **Ergonomic assembly line balancing with an industrial application**  
DEMİRKOL AKYOL Ş., BAYKASOĞLU A.  
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, 12 - 14 October 2016
- LXXXVII. **A hybrid ERP risk evaluation model based on fuzzy AHP and fuzzy comprehensive evaluation**  
GÖLCÜK İ., BAYKASOĞLU A.  
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, 12 - 14 October 2016
- LXXXVIII. **A heuristic procedure for integrated cutting stock and sequencing problem in the marble industry**  
KUBUR B., BAYKASOĞLU A.  
OR2016: Annual International Conference of the German Operations Research Society, 30 August - 02 September 2016
- LXXXIX. **Multi agent stochastic diffusion search algorithm for optimization problems**  
ŞENOL M. E., BAYKASOĞLU A.  
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- XC. **Combinatorial optimization via weighted superposition attraction**  
BAYKASOĞLU A., ŞENOL M. E.  
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- XCI. **Event driven dynamic job shop scheduling under capacity constraints**  
BAYKASOĞLU A., KARASLAN F. S.  
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- XCII. **An analysis of criteria interaction phenomenon in multiple attribute decision making**  
GÖLCÜK İ., BAYKASOĞLU A.  
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- XCIII. Minimizing Non Machining Times in Automatic Tool Changers**  
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- XCIV. A constraint programming approach to flexible manufacturing cell Formation with worker assignment**  
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- XCV. A MULTIPLE RULE BASED CONSTRUCTIVE HEURISTIC ALGORITHM FOR ASSEMBLY LINE WORKER ASSIGNMENT AND BALANCING PROBLEMS WITH CONSIDERING ERGONOMIC RISK FACTORS**  
 DEMİRKOL AKYOL Ş., BAYKASOĞLU A.  
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- XCVI. A multiple rule based constructive heuristic algorithm for assembly line worker assignment and balancing problems with considering ergonomic risk factors**  
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- XCVII. Dynamic job shop scheduling with periodic and event driven rescheduling methods**  
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- C. A GRASP based Algorithm for Simultaneous Optimization of Order Batching and Picking Operations in Warehouses**  
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- CI. Realization of stochastic diffusion search algorithm in a multi agent modeling environment for resource constrained project scheduling problem**  
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- CII. A mathematical model and stochastic diffusion search algorithm for marble cutting problem**  
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- CIII. A novel constrained fuzzy arithmetic based decoding procedure for direct solution of fully fuzzy transportation problems**  
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- CIV. Strategy selection via hierarchical type 2 fuzzy TOPSIS DEMATEL approach**  
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- CV. A New Mixed Integer Programming Model for Strategic and Tactical Fleet Planning Problems in Intermodal Transportation Networks with a Real Life Application**  
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- CVII. Nakliye Komisyonculuğu Bakış Açısıyla Çok Amaçlı Çok Modlu Periyodik Yük Planlama Problemi için Bir Matematiksel Programlama Modeli**  
BAYKASOĞLU A., SUBULAN K., ŞAHİNKAYA N.  
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- CVIII. Kaotik ateş böceği algoritması ile mekanik eniyileme problemlerinin çözümü**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
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- CIX. İki Taraflı Rastsal Montaj Hattı Dengeleme Ve Bir İşletmeye Uygulanması**  
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- CXI. A Mathematical Model Proposal for Fleet Planning Problem of a Real Life Intermodal Transportation Network**  
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- CXII. A constrained fuzzy arithmetic based approach to transshipment problem with fuzzy decision variables**  
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- CXIII. A GRASP based approach to dynamic scheduling of parallel heat treatment furnaces in a manufacturing company**  
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- CXIV. Stratejik ve Taktiksel Filo Yönetimi Üzerine Literatür Araştırması ve Bir Lojistik Firmasından Uygulama Örnekleri**  
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- CXVIII. Parça-Makine Gruplama Problemi için Kısıt Programlama Yaklaşımı**  
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- CXXII. **Constrained Fuzzy Arithmetic Approach for Fully Fuzzy Transportation Problems**  
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- CXXIII. **Fully Fuzzy Linear Assignment Method for MADM Problems**  
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- CXXIV. **Designing Reverse Logistics Networks in a Fully Fuzzy Environment**  
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- CXXV. **MONTAJ HATTI DENGELEME VE İŞGÜCÜ ATAMA PROBLEMİNDE ERGONOMİK RİSK DEĞERLENDİRME**  
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