

# 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 salesman 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. **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)
- II. **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)
- 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. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)

- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **Capability-based machine layout with a matheuristic-based approach**  
BAYKASOĞLU A., SUBULAN K., Hamzadayı A.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.198, 2022 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)

- XXIV. **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)
- XXV. **Optimising cutting conditions for minimising cutting time in multi-pass milling via weighted superposition attraction-repulsion (WSAR) algorithm**  
Baykasoglu A.  
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.59, no.15, pp.4633-4648, 2021 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Alpha-cut based fuzzy cognitive maps with applications in decision-making**  
BAYKASOĞLU A., Golcuk I.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.152, 2021 (SCI-Expanded)
- XXX. **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)
- XXXI. **Enhanced superposition determination for weighted superposition attraction algorithm**  
BAYKASOĞLU A., AKPINAR Ş.  
SOFT COMPUTING, vol.24, no.19, pp.15015-15040, 2020 (SCI-Expanded)
- XXXII. **Capability-based distributed layout formation with or without demand and process flow information**  
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- XXVIII. **Karmaşık Problemlerin Çözümü İçin Metasezgisel Algoritmaların Paralel Hesaplama Yoluyla Koalisyonu**  
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FELEKOĞLU B., BAYKASOĞLU A., safati b.  
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- LXII. **Interval Type-2 Fuzzy Cognitive Maps**  
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 BAYKASOĞLU A., KUBUR B.

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- LXVI. **Effects of Ergonomic Risk Factors of the Working Environment on a Real Life Manufacturing Company**  
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- LXVII. **Metaheuristic Approach to Joint Preventive Maintenance and Dynamic Flexible Job Shop Scheduling**  
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- LXX. **Comparison of Grey and ARIMA Models for Production Forecasting In Marble Industry**  
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- LXXI. **A GRASP Based Algorithm to Reduce Service Time in Fully Automated Parking System**  
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- LXXII. **A Computational Approach for Ergonomic Assembly Line Balancing**  
DEMİRKOL AKYOL Ş., BAYKASOĞLU A.  
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- LXXIII. **Solving Resource Constrained Project Scheduling Problems via Constraint Programming**  
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- 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**  
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- LXXVII. **Opposition based weighted superposition attraction algorithm for travelling salesman problems**  
BAYKASOĞLU A., ŞENOL M. E.  
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- LXXVIII. **Implementation of the balanced scorecard concept under interval type 2 fuzzy environment**  
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- LXXXIX. **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.  
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- LXXXI. **Sira Bagimli hazirlik süreli mermer kesme problemi icin sezgisel bir çözüm yöntemi**  
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ÖZSOYDAN F. B., BAYKASOĞLU A.  
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BAYKASOĞLU A., KARASLAN F. S.  
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- LXXXVI. **Ergonomic assembly line balancing with an industrial application**  
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- LXXXVII. **A hybrid ERP risk evaluation model based on fuzzy AHP and fuzzy comprehensive evaluation**  
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- XC. **Combinatorial optimization via weighted superposition attraction**  
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- XCI. **Event driven dynamic job shop scheduling under capacity constraints**  
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**assignment**

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- CII. A mathematical model and stochastic diffusion search algorithm for marble cutting problem**  
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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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### **Bir Matematiksel Programlama Modeli**

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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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- CXXV. **MONTAJ HATTI DENGELEME VE İŞGÜCÜ ATAMA PROBLEMİNDE ERGONOMİK RİSK DEĞERLENDİRME**  
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