

Prof. Dr. ADİL BAYKASOĞLU

Kişisel Bilgiler

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Biyografi

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.

Eğitim Bilgileri

Doktora, University of Nottingham, Mühendislik Fakültesi, Production Engineering and Operations Management (Endüstri Mühendisliği), Birleşik Krallık 1996 - 1999

Sertifika, Kurs ve Eğitimler

Veri Analizi, Temel Düzey R Uygulamaları Eğitimi, AYEUM, Hiras Yazılım, Eğitim & Danışmanlık, 2022

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

Araştırma Alanları

Belirsizlik Yönetimi, Bilgi Mühendisliği, Bulanık Kümeler ve Sistemler, Evrimsel Hesaplama, Sinirsel Ağlar, Endüstri Mühendisliği, Eniyileme Kuramı ve Yöntemleri, Üretim Planlaması ve Kontrolü, Karar Kuramı, Tedarik Zinciri ve Lojistik Yönetimi, Bilgisayar Destekli Tasarım ve İmalat, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2011 - Devam Ediyor

Prof. Dr., Gaziantep Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2007 - 2011

Doç. Dr., Gaziantep Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2002 - 2007

Yrd. Doç. Dr., Gaziantep Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 1999 - 2002

Araştırma Görevlisi, Gaziantep Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 1996 - 1999
Öğretim Görevlisi, Gaziantep Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1995 - 1996
Araştırma Görevlisi, Gaziantep Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1993 - 1995

Akademik İdari Deneyim

Rektörlüğe Bağlı Komisyon Üyesi, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2013 - Devam Ediyor
Anabilim/Bilim Dalı Başkanı, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2012 - Devam Ediyor
Fakülte Kurulu Üyesi, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2011 - 2023
Bölüm Başkanı, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2011 - 2023
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2016 - 2019
Enstitü Yönetim Kurulu Üyesi, Gaziantep Üniversitesi, Mimarlık, 2009 - 2011
Bölüm Başkanı, Gaziantep Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2003 - 2011
Anabilim/Bilim Dalı Başkanı, Gaziantep Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği, 1999 - 2011
Anabilim/Bilim Dalı Başkanı, Gaziantep Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 1999 - 2011
Fakülte Yönetim Kurulu Üyesi, Gaziantep Üniversitesi, Mühendislik, 2006 - 2007
BAP Bilimsel Komisyon Üyesi, Gaziantep Üniversitesi, Rektörlük, 2003 - 2007
Erasmus Koordinatörü, Gaziantep Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2002 - 2005
Bölüm Başkanı, Gaziantep Üniversitesi, Rektörlük, Enformatik Bölümü, 2002 - 2003
Rektörlüğe Bağlı Komisyon Üyesi, Gaziantep Üniversitesi, Rektörlük, Kütüphane Komisyonu, 1999 - 2003

Verdiği Dersler

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

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Introduction to Computational Intelligence, Lisans, 2013 - 2014
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Computational Intelligence in Design and Manufacturing, Yüksek Lisans, 2012 - 2013
Business Process Analyses and Modeling, Yüksek Lisans, 2011 - 2012
Fuzzy Logic and Industrial Applications, Lisans, 2011 - 2012, 2010 - 2011
Modern Management Techniques in Engineering, Yüksek Lisans, 2011 - 2012
Design of Experiments for Engineers, Lisans, 2010 - 2011
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Advanced Topics in Facility Layout and Location, Yüksek Lisans, 2005 - 2006, 2001 - 2002
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Knowledge Discovery and Data Mining, Yüksek Lisans, 2003 - 2004
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Total Quality Management, Lisans, 2001 - 2002

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Computer Programming, Lisans, 2001 - 2002
Introduction to Concurrent Engineering, Lisans, 2001 - 2002

Yönetilen Tezler

Baykasoğlu A., Rebalancing manufacturing lines by meta-heuristic methods, Doktora, T.Çimen(Öğrenci), 2023
Baykasoğlu A., Generating Solutions for Data-Driven Decision Making Problems based on Bayesian Models, Doktora, S.ÇALI(Öğrenci), 2023
Baykasoğlu A., Optimal sizing of raw materials in carton box industries, Yüksek Lisans, İ.KARAMAN(Öğrenci), 2023
Baykasoğlu A., Modeling and Solving Dynamic Lot Sizing Problems under Different Production Environments, Doktora, B.Kubur(Öğrenci), 2022
Baykasoğlu A., Simultaneous and Dynamic Optimization of Operational Planning Problems in Fully Automated Parking Systems, Doktora, N.Dudaklı(Öğrenci), 2022
Baykasoğlu A., Usability evaluation of a learning management system with axiomatic design, Yüksek Lisans, C.ÜNAL(Öğrenci), 2022
Baykasoğlu A., Coalition of Metaheuristics Through Parallel Computing For Solving Complex Optimization Problems, Doktora, M.EMRE(Öğrenci), 2022
BAYKASOĞLU A., Modeling and solving dynamic lot sizing problems under different production environment, Doktora, B.KUBUR(Öğrenci), 2022
BAYKASOĞLU A., Dynamic pricing in car parks, Yüksek Lisans, E.ERCAN(Öğrenci), 2021
BAYKASOĞLU A., Combining systems dynamics modelling with dynamic multi criteria decision making, Yüksek Lisans, D.YEŞİLKAYA(Öğrenci), 2019
BAYKASOĞLU A., Fuzzy sets and functions with selected problems in decision engineering, Doktora, İ.GÖLCÜK(Öğrenci), 2019
BAYKASOĞLU A., Estimation of loosening rates of fasteners under certain transverse vibration conditions by using computational intelligence techniques., Yüksek Lisans, A.BIYIK(Öğrenci), 2017
BAYKASOĞLU A., Realizing metaheuristic algorithms in multi-agent based modelling environments, Yüksek Lisans, M.EMRE(Öğrenci), 2017
BAYKASOĞLU A., Dynamic scheduling of flexible job shops under capacity and setup constraints, Doktora, F.SELEN(Öğrenci), 2017
BAYKASOĞLU A., Resolving marble cutting problems with mathematical programming and heuristic approaches, Yüksek Lisans, B.KUBUR(Öğrenci), 2016
BAYKASOĞLU A., Modelling and solving optimization problems in uncertain, Doktora, F.BURÇİN(Öğrenci), 2016
BAYKASOĞLU A., Fleet size optimization under certain environment, Yüksek Lisans, N.DUDAKLI(Öğrenci), 2016
BAYKASOĞLU A., Modelling and analysis of complexity in service systems, Doktora, E.EKİNCİ(Öğrenci), 2016
BAYKASOĞLU A., Fleet planning and network optimization in supply chains under uncertain environments, Doktora, K.SUBULAN(Öğrenci), 2016
BAYKASOĞLU A., Production planning implementation in a real life system, Yüksek Lisans, E.PERÇİNBLGİ(Öğrenci), 2016
BAYKASOĞLU A., Modelling and solving optimization problems in uncertain/dynamic environments with manufacturing systems examples, Doktora, F.BURÇİN(Öğrenci), 2016
BAYKASOĞLU A., Modeling and solving assembly line design problems by considering human factors with an application, Yüksek Lisans, N.AKTAŞ(Öğrenci), 2015
BAYKASOĞLU A., Dynamic manufacturing cell formation through market oriented programming, Doktora, L.GÖRKEMLİ(Öğrenci), 2014
BAYKASOĞLU A., Multi objective meta-heuristic optimization to balance generalized assembly lines, Doktora, Ş.DEMİRKOL(Öğrenci), 2014
BAYKASOĞLU A., Investigation of fuzzy functions approach and its possible applications in industrial engineering problems, Yüksek Lisans, S.MARAL(Öğrenci), 2013

BAYKASOĞLU A., Modeling and solving mixed-model assembly line balancing problem with setups, Doktora, Ş.AKPINAR(Öğrenci), 2013

BAYKASOĞLU A., An analysis of criteria interaction techniques in multiple attribute decision making and a fuzzy TOPSIS based new model proposal, Yüksek Lisans, İ.GÖLCÜK(Öğrenci), 2013

BAYKASOĞLU A., Heuristic optimization through negotiation, Doktora, Z.DİDEM(Öğrenci), 2012

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

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

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

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

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

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

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

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

BAYKASOĞLU A., Market, location and feasibility analysis of baby diaper production, Yüksek Lisans, A.YILANKIRKAN(Öğrenci), 2006

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

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

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

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

BAYKASOĞLU A., Solving fuzzy multiple objective optimization models by using multiple objective tabu search, Yüksek Lisans, T.SEVİM(Öğrenci), 2003

Tezsiz Lisansüstü Danışmanlıkları

Baykasoğlu A., Churn analysis and an application using e-commerce data, Yüksek Lisans-Tezsiz, G.Karakoyun(Öğrenci), 2023

Baykasoğlu A., System analysis and design for asset management software development, Yüksek Lisans-Tezsiz, M.Özdemir(Öğrenci), 2023

Baykasoğlu A., Bir işletmede veri güdümlü kestirimci bakım uygulaması , Yüksek Lisans-İkinci Öğretim Tezsiz, Ş.Tekkol(Öğrenci), 2022

Baykasoğlu A., Betonarme istinat duvarlarının optimum tasarımı, Yüksek Lisans-İkinci Öğretim Tezsiz, G.Kurt(Öğrenci), 2020

Baykasoğlu A., İnşaat sektöründe çok kriterli karar verme teknikleri ile yüklenici secimi, Yüksek Lisans-İkinci Öğretim Tezsiz, Y.Aykurt(Öğrenci), 2019

Baykasoğlu A., RFID teknolojisi ile yarı mamul ürün takibi ve bir işletmede örnek uygulama, Yüksek Lisans-İkinci Öğretim Tezsiz, E.Uslucan(Öğrenci), 2019

Baykasoğlu A., Supplier selection by using multiple criteria decision making methods, Yüksek Lisans-İkinci Öğretim Tezsiz, B.Yağmur(Öğrenci), 2018

- Baykasoğlu A., Süreç bazlı benzetim ve modelleme yöntemini kullanarak çamaşır makinesi montaj hattı süreç modellemesi ve analiz, Yüksek Lisans-İkinci Öğretim Tezsiz, H.Meliz(Öğrenci), 2017
- Baykasoğlu A., Optimization of material cutting and placement operations in wind blade component production, Yüksek Lisans-İkinci Öğretim Tezsiz, F.Kömürcü(Öğrenci), 2017
- Baykasoğlu A., ERP sistemi kurulumunda kritik başarı faktörlerinin analizi, Yüksek Lisans-İkinci Öğretim Tezsiz, S.Yorulmaz(Öğrenci), 2016
- Baykasoğlu A., Ergonomic risk analysis for a television production line, Yüksek Lisans-İkinci Öğretim Tezsiz, B.Demirkan(Öğrenci), 2014
- Baykasoğlu A., Solving generalized travelling salesman problem (GTSP) with teaching learning based optimization (TLBO) algorithm, Yüksek Lisans-İkinci Öğretim Tezsiz, A.Cansu(Öğrenci), 2012

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A simulation–optimization-based planning and control system for operations of fully automated parking systems**
DUDAKLI N., BAYKASOĞLU A.
Computers and Industrial Engineering, cilt.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, ss.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, cilt.53, sa.1, ss.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, cilt.29, sa.1, ss.80-94, 2024 (SCI-Expanded)
- V. **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, cilt.39, sa.1, ss.401-415, 2024 (SCI-Expanded)
- VI. **Performance analyses of weighted superposition attraction-repulsion algorithms in solving difficult optimization problems**
BAYKASOĞLU A.
Network: Computation in Neural Systems, 2024 (SCI-Expanded)
- VII. **Performance Evaluation of Different Dispatching Rules and Heuristics in a Fully Automated Parking System**
Dudakli N., Baykasoglu A.
Informatica (Netherlands), cilt.35, sa.1, ss.99-129, 2024 (SCI-Expanded)
- VIII. **Compression behavior and design optimization of triggered glass fiber reinforced polymer square tubes**
Baykasoğlu C., BAYKASOĞLU A., Erdin M. E., Cetin E.
Polymer Composites, 2024 (SCI-Expanded)
- IX. **Effect of triggering on the axial crushing behavior of GFRP tubes: Experimental investigation and optimization**
Baykasoğlu C., Baykasoğlu A., Erdin M. E., Cetin E.
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- X. **Location and replenishment problems of disaster stations for humanitarian relief logistics along**

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Yörük E., Baykasoğlu A., Avcı M. G.

Natural Hazards, cilt.119, sa.3, ss.1713-1734, 2023 (SCI-Expanded)

- XI. **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.
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- XII. **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), cilt.40, sa.7-8, ss.1947-2008, 2023 (SCI-Expanded)
- XIII. **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, cilt.214, 2023 (SCI-Expanded)
- XIV. **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, cilt.182, 2023 (SCI-Expanded)
- XV. **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, cilt.210, 2022 (SCI-Expanded)
- XVI. **A detailed review and analysis of assembly line rebalancing problems**
Cimen T., BAYKASOĞLU A., DEMİRKOL AKYOL Ş.
ASSEMBLY AUTOMATION, sa.6, ss.742-760, 2022 (SCI-Expanded)
- XVII. **Coalition of metaheuristics through parallel computing for solving unconstrained continuous optimization problems**
ŞENOL M. E., BAYKASOĞLU A.
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- XVIII. **Capability-based machine layout with a matheuristic-based approach**
BAYKASOĞLU A., SUBULAN K., Hamzadayı A.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.198, 2022 (SCI-Expanded)
- XIX. **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, cilt.22, sa.3, ss.2063-2098, 2022 (SCI-Expanded)
- XX. **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, cilt.13, sa.3, ss.363-384, 2022 (SCI-Expanded)
- XXI. **Building blocks of the reverse innovation process**
Dudaklı N., Felekoğlu B., Baykasoğlu A.
INNOVATION-THE EUROPEAN JOURNAL OF SOCIAL SCIENCE RESEARCH, cilt.35, sa.2, ss.196-223, 2022 (SSCI)
- XXII. **Analysis of rank reversal problems in "Weighted Aggregated Sum Product Assessment" method**
Baykasoğlu A., Ercan E.
SOFT COMPUTING, cilt.25, sa.24, ss.15243-15254, 2021 (SCI-Expanded)
- XXIII. **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, cilt.25, sa.23, ss.14893-14932, 2021 (SCI-Expanded)
- XXIV. **Chaos and intensification enhanced flower pollination algorithm to solve mechanical design and unconstrained function optimization problems**
ÖZSOYDAN F. B., BAYKASOĞLU A.
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- XXV. **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, cilt.37, sa.4, ss.3843-3856, 2021 (SCI-Expanded)
- XXVI. **Explicit flow-risk allocation for cooperative maximum flow problems under interval uncertainty**
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Operational Research, cilt.21, ss.2149-2179, 2021 (SCI-Expanded)
- XXVII. **A species-based flower pollination algorithm with increased selection pressure in abiotic local pollination and enhanced intensification**
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