

## Assoc. Prof. FEHMİ BURÇİN ÖZSOYDAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-5530-2019

ScopusID: 55912335500

Yoksis Researcher ID: 119928

### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey 2012 - 2016

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), Turkey 2009 - 2012

Undergraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 2005 - 2009

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Modelling and solving optimization problems in uncertain/dynamic environments with manufacturing systems examples, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2016

Postgraduate, Birikimli açık araç rotalama problemi için sezgisel çözüm yaklaşımları, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 2011

### Research Areas

Computer Learning, Evolutionary Computing, Neural Networks, Scheduling

### Academic Titles / Tasks

Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2020 - Continues

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2018 - 2020

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2011 - 2018

Research Assistant, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Endüstri Mühendisliği Bölümü, 2009 - 2011

## Academic and Administrative Experience

Bilişim Teknolojileri Araştırma ve Uygulama Merkezi Merkez Yönetim Kurulu Üyesi, Dokuz Eylül University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2023 - Continues

## Courses

IND 6098, Doctorate, 2023 - 2024, 2022 - 2023

M.Sc. Seminar, Postgraduate, 2023 - 2024, 2019 - 2020

YAPAY ZEKA VE ENDÜSTRİDE UYGULAMALARI, Undergraduate, 2023 - 2024

Ph.D. Thesis, Doctorate, 2023 - 2024

BİLGİSAYAR PROGRAMLAMA UYGULAMALARI 2. Şb, Undergraduate, 2023 - 2024

Ms.Sc. Research, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020

SEMİNER, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019

Ms.Sc. Thesis, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020

BİTİRME PROJESİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018

Ph.D. Seminar, Doctorate, 2022 - 2023

BİLGİSAYAR PROGRAMLAMA UYGULAMALARI 4. Şb, Undergraduate, 2022 - 2023

SİSTEM VE MATEMATİKSEL MODELLEMeye GİRİŞ, Undergraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018

BİLGİSAYAR PROGRAMLAMA UYGULAMALARI, Undergraduate, 2022 - 2023, 2018 - 2019

Yapay Zeka ve Endüstride Uygulamaları, Undergraduate, 2022 - 2023, 2021 - 2022

BİLGİSAYAR PROGRAMLAMA, Undergraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018

IE 251 OPTIMIZATION I-LINEAR MODELS (UYG.) (İZMİR EKONOMİ ÜNİVERSİTESİ), Undergraduate, 2019 - 2020

HESAP ÇİZELGELERİ İLE YÖNETİM BİLİMİ MODELLEMESİ, Undergraduate, 2019 - 2020, 2018 - 2019

IE 251 OPTIMIZATION I-LINEAR MODELS (TEO.) (İZMİR EKONOMİ ÜNİVERSİTESİ), Undergraduate, 2019 - 2020

ENDÜSTRİDE BİLGİSAYAR UYGULAMALARI, Undergraduate, 2019 - 2020, 2018 - 2019

PROJECT MANAGEMENT, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

MODERN ÜRETİM SİSTEMLERİ, Undergraduate, 2018 - 2019

IE 530 EVOLUTIONARY ALGORITHMS (İZMİR EKONOMİ ÜNİVERSİTESİ), Postgraduate, 2018 - 2019

IE 261 INDUSTRIAL INFORMATION SYSTEMS (İZMİR EKONOMİ ÜNİVERSİTESİ), Undergraduate, 2018 - 2019

MANAGEMENT SCIENCE MODELING WITH SPREADSHEETS, Undergraduate, 2018 - 2019

## Advising Theses

Özsoydan F. B., Learning-based algorithms for solving machine scheduling problems, Doctorate, P.Yunusoğlu(Student), Continues

Özsoydan F. B., A machine learning study for cluster analysis assessment, Postgraduate, İ.Taner(Student), Continues

Özsoydan F. B., Hyperparameter and Parameter Optimization for Feedforward Neural Networks by Using Neuroevolutionary Algorithms, Postgraduate, K.Çullu(Student), Continues

Özsoydan F. B., Machine Learning Applications in Vehicle Routing Problems, Doctorate, C.Asilkefeli(Student), Continues

ÖZSOYDAN F. B., P-medyan problemi ve uzantıları için metasezgisel çözüm yaklaşımları, Postgraduate, A.EREL(Student), 2022

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

### I. A machine learning-based two-stage approach for the location of undesirable facilities in the biomass-to-bioenergy supply chain

Yunusoglu P., Ozsoydan F. B., Bilgen B.

APPLIED ENERGY, vol.362, no.122961, pp.1-30, 2024 (SCI-Expanded)

### II. Evolution inspired binary flower pollination for the uncapacitated facility location problem

Özsoydan F. B., Kasirga A. E.

NEURAL COMPUTING AND APPLICATIONS, vol.1, no.1, pp.1-15, 2024 (SCI-Expanded)

- III. **A hybridisation of linear programming and genetic algorithm to solve the capacitated facility location problem**  
Özsoydan F. B., Gölcük İ.  
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.1, no.1, pp.1-30, 2023 (SCI-Expanded)
- IV. **An improved arithmetic optimization algorithm for training feedforward neural networks under dynamic environments**  
Golcuk I., ÖZSOYDAN F. B., DURMAZ E. D.  
KNOWLEDGE-BASED SYSTEMS, vol.263, 2023 (SCI-Expanded)
- V. **A reinforcement learning based computational intelligence approach for binary optimization problems: The case of the set-union knapsack problem**  
ÖZSOYDAN F. B., Gölcük İ.  
Engineering Applications of Artificial Intelligence, vol.118, 2023 (SCI-Expanded)
- VI. **A hyper-heuristic based reinforcement-learning algorithm to train feedforward neural networks**  
Özsoydan F. B., Gölcük İ.  
ENGINEERING SCIENCE AND TECHNOLOGY, AN INTERNATIONAL JOURNAL, vol.1, no.1, pp.1-10, 2022 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **Q-learning and hyper-heuristic based algorithm recommendation for changing environments**  
Golcuk I., ÖZSOYDAN F. B.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.102, 2021 (SCI-Expanded)
- X. **Quantum particles-enhanced multiple Harris Hawks swarms for dynamic optimization problems**  
Golcuk I., ÖZSOYDAN F. B.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.167, 2021 (SCI-Expanded)
- XI. **Iterated greedy algorithms enhanced by hyper-heuristic based learning for hybrid flexible flowshop scheduling problem with sequence dependent setup times: A case study at a manufacturing plant**  
ÖZSOYDAN F. B., SAĞIR M.  
COMPUTERS & OPERATIONS RESEARCH, vol.125, 2021 (SCI-Expanded)
- XII. **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)
- XIII. **Evolutionary and adaptive inheritance enhanced Grey Wolf Optimization algorithm for binary domains**  
Golcuk I., ÖZSOYDAN F. B.  
KNOWLEDGE-BASED SYSTEMS, vol.194, 2020 (SCI-Expanded)
- XIV. **Analysing the effects of various switching probability characteristics in flower pollination algorithm for solving unconstrained function minimization problems**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
NEURAL COMPUTING & APPLICATIONS, vol.31, no.11, pp.7805-7819, 2019 (SCI-Expanded)
- XV. **Effects of dominant wolves in grey wolf optimization algorithm**  
ÖZSOYDAN F. B.  
APPLIED SOFT COMPUTING, vol.83, 2019 (SCI-Expanded)
- XVI. **Artificial search agents with cognitive intelligence for binary optimization problems**

- ÖZSOYDAN F. B.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.136, pp.18-30, 2019 (SCI-Expanded)
- XVII. **A swarm intelligence-based algorithm for the set-union knapsack problem**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE, vol.93, pp.560-569,  
2019 (SCI-Expanded)
- XVIII. **Quantum firefly swarms for multimodal dynamic optimization problems**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.115, pp.189-199, 2019 (SCI-Expanded)
- XIX. **Improving fuzzy c-means clustering via quantum-enhanced weighted superposition attraction algorithm**  
BAYKASOĞLU A., Golcuk I., ÖZSOYDAN F. B.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.48, no.3, pp.859-882, 2019 (SCI-Expanded)
- XX. **Dynamic optimization in binary search spaces via weighted superposition attraction algorithm**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.96, pp.157-174, 2018 (SCI-Expanded)
- XXI. **Dynamic scheduling of parallel heat treatment furnaces: A case study at a manufacturing system**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
JOURNAL OF MANUFACTURING SYSTEMS, vol.46, pp.152-162, 2018 (SCI-Expanded)
- XXII. **Minimisation of non-machining times in operating automatic tool changers of machine tools under dynamic operating conditions**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.56, no.4, pp.1548-1564, 2018 (SCI-Expanded)
- XXIII. **Evolutionary and population-based methods versus constructive search strategies in dynamic combinatorial optimization**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
INFORMATION SCIENCES, vol.420, pp.159-183, 2017 (SCI-Expanded)
- XXIV. **Minimizing tool switching and indexing times with tool duplications in automatic machines**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.89, pp.1775-1789, 2017 (SCI-Expanded)
- XXV. **An improved approach for determination of index positions on CNC magazines with cutting tool duplications by integrating shortest path algorithm**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.54, no.3, pp.742-760, 2016 (SCI-Expanded)
- XXVI. **A GRASP based solution approach to solve cardinality constrained portfolio optimization problems**  
BAYKASOĞLU A., Yunusoglu M. G., ÖZSOYDAN F. B.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.90, pp.339-351, 2015 (SCI-Expanded)
- XXVII. **Adaptive firefly algorithm with chaos for mechanical design optimization problems**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
APPLIED SOFT COMPUTING, vol.36, pp.152-164, 2015 (SCI-Expanded)
- XXVIII. **A case-oriented approach to a lead/acid battery closed-loop supply chain network design under risk and uncertainty**  
SUBULAN K., BAYKASOĞLU A., ÖZSOYDAN F. B., TAŞAN A. S., SELİM H.  
JOURNAL OF MANUFACTURING SYSTEMS, vol.37, pp.340-361, 2015 (SCI-Expanded)
- XXIX. **NEURAL-NETWORK-BASED GENETIC ALGORITHM FOR OPTIMAL KITCHEN FAUCET STYLES**  
Özsoydan F. B., Kandemir C. M., Demirtas E. A.  
NEURAL NETWORK WORLD, vol.25, no.4, pp.387-404, 2015 (SCI-Expanded)
- XXX. **An improved firefly algorithm for solving dynamic multidimensional knapsack problems**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.41, no.8, pp.3712-3725, 2014 (SCI-Expanded)

- XXXI. **Heuristic solution approaches for the cumulative capacitated vehicle routing problem**  
ÖZSOYDAN F. B., SİPAHİOĞLU A.  
OPTIMIZATION, vol.62, no.10, pp.1321-1340, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A mobile application-based decision support system for routing and decision making problems**  
Bolat M., Bedel O., Çetinkurt K., Özsoydan F. B.  
Journal of advanced research in natural and applied sciences (Online), vol.9, no.3, pp.637-647, 2023 (Peer-Reviewed Journal)
- II. **A quantum based local search enhanced particle swarm optimization for binary spaces**  
ÖZSOYDAN F. B.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.24, no.4, pp.675-681, 2018 (ESCI)
- III. **A Discrete Particle Swarm Optimization Algorithm for Bi-Criteria Warehouse Location Problem**  
Özsoydan F. B., Saraç T.  
İstanbul Üniversitesi İktisat Fakültesi Ekonometri ve İstatistik Dergisi, vol.1, no.1, pp.114-124, 2011 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Fuzzy Flower Pollination Algorithm with Chaos for Global Optimization**  
GÖLCÜK İ., ÖZSOYDAN F. B.  
in: Progress in Intelligent Decision Science, Tofiq Allahviranloo Soheil Salahshour Nafiz Arica, Editor, Springer, pp.406-414, 2021
- II. **Cuckoo Search Algorithm with Various Walks**  
ÖZSOYDAN F. B., GÖLCÜK İ.  
in: Applications of Cuckoo Search Algorithm and its Variants, Dey, Nilanjan, Editor, Springer, pp.44-77, 2021
- III. **Dinamik Optimizasyon**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
in: Çağdaş Endüstri Mühendisliği, Ercan Öztemel, Editor, Papatya Bilim Üniversite Yayıncılığı, pp.457-486, 2019

## Refereed Congress / Symposium Publications in Proceedings

- I. **Q-Learning Enhanced Swarm-Based Algorithms for the 0-1 Knapsack Problem**  
Özsoydan F. B.  
ICENSTED 2024, Balıkesir, Turkey, 19 - 21 July 2024, pp.757-762
- II. **An Efficient Design of a Multi-Echelon and Multi-Product Supply Chain Network with Price-Sensitive Demands**  
Yunusoğlu P., Eren Akyol D., Özsoydan F. B.  
ICENSTED 2024, Balıkesir, Turkey, 19 - 21 July 2024, pp.765-770
- III. **A Multifaceted Approach to Fault Diagnosis: Comparing Traditional and Deep Learning Methods**  
Asilkefeli C., Özsoydan F. B.  
ICENSTED 2024, Balıkesir, Turkey, 19 - 21 July 2024, pp.910-914
- IV. **Convolutional Neural Network Application for Control Chart Pattern Recognition**  
Asilkefeli C., Özsoydan F. B.  
ICENSTED 2024, Balıkesir, Turkey, 19 - 21 July 2024, pp.915-918
- V. **Performance comparison of recent metaheuristic algorithms for dynamic binary optimization**

## **problems**

GÖLCÜK İ., ÖZSOYDAN F. B.

International Conference on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI), Yalova, Turkey, 21 - 23 May 2021

- VI. **Solving facility location problems with a modified bio-inspired algorithm**  
KASIRGA A. E., ÖZSOYDAN F. B.  
International Conference on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI), Yalova, Turkey, 21 - 23 May 2021
- VII. **Training neural networks by quantum enhanced particle swarm optimization**  
ÖZSOYDAN F. B., GÖLCÜK İ.  
International Conference on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI), Yalova, Turkey, 21 - 23 May 2021
- VIII. **Fuzzy Flower Pollination Algorithm with Chaos for Global Optimization**  
GÖLCÜK İ., ÖZSOYDAN F. B.  
International Online Conference on Intelligent Decision Science, 07 August 2020
- IX. **Chaos in switching probability of FPA**  
ÖZSOYDAN F. B., GÖLCÜK İ.  
International Design and Engineering Symposium (IDES 2019), İzmir, Turkey, 10 - 12 October 2019, pp.309-315
- X. **A quantum local search enhanced PSO for the uncapacitated facility location problem**  
ÖZSOYDAN F. B., GÖLCÜK İ.  
International Design and Engineering Symposium (IDES 2019), İzmir, Turkey, 10 - 12 October 2019, pp.322-329
- XI. **Analysis of Different Binarization Techniques within Whale Optimization Algorithm**  
Golcuk I., ÖZSOYDAN F. B., DURMAZ E. D.  
Innovations in Intelligent Systems and Applications Conference (ASYU), İzmir, Turkey, 31 October - 02 November 2019, pp.72-76
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **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

- XX. **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
- XXI. **Minimizing Non Machining Times in Automatic Tool Changers**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
28th European Conference on Operational Research (Euro 2016), Poznan, Poland, 3 - 06 July 2016, pp.297-298
- XXII. **A GRASP based Algorithm for Simultaneous Optimization of Order Batching and Picking Operations in Warehouses**  
DUDAKLI N., BAYKASOĞLU A., ÖZSOYDAN F. B., YENİLMEZ İ.  
ECCO XXIX 2016 - 29th Conference of the European Chapter on Combinatorial Optimization, Budapest, Hungary, 26 - 28 May 2016, pp.68-69
- XXIII. **Kaotik ateş böceği algoritması ile mekanik eniyileme problemlerinin çözümü**  
Özsoydan F. B., Baykasoğlu A.  
YAEM 2015, Ankara, Turkey, 7 - 11 September 2015, pp.224
- XXIV. **A GRASP based approach to dynamic scheduling of parallel heat treatment furnaces in a manufacturing company**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
Multidisciplinary International Scheduling Conference: MISTA 2015, Prag, Czech Republic, 25 - 28 August 2015, pp.656-658
- XXV. **A constructive search algorithm for combinatorial dynamic optimization problems**  
BAYKASOĞLU A., ÖZSOYDAN F. B.  
IEEE International Conference on Evolving and Adaptive Intelligent Systems (EAIS), France, 1 - 03 December 2015
- XXVI. **A multi-population firefly algorithm for dynamic optimization problems**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
IEEE International Conference on Evolving and Adaptive Intelligent Systems (EAIS), France, 1 - 03 December 2015
- XXVII. **Dinamik Optimizasyon Problemleri İçin Uyarlamalı Ateş Böceği Algoritması**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
AKILLI SİSTEMLERDE YENİLİKLER VE UYGULAMALARI SEMPOZYUMU: ASYU 2014, İzmir, Turkey, 9 - 10 October 2014, pp.24
- XXVIII. **Firefly Algorithm for Continuous and Combinatorial Dynamic Optimization Problems**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
20th Conference of the International Federation of Operational Research Societies, Barselona, Spain, 13 - 18 July 2014, pp.214
- XXIX. **An Intelligent Water Drops Algorithm Combined with Differential Evolution Algorithm for Solving Cardinality Constrained Portfolio Optimization Problems**  
AVCI M. G., BAYKASOĞLU A., ÖZSOYDAN F. B.  
26th European Conference on Operational Research, 1 - 04 July 2013
- XXX. **Comparative Analysis of Differential Evolution Firefly and Genetic Algorithms on Dynamic Environments**  
ÖZSOYDAN F. B., BAYKASOĞLU A.  
26th European Conference on Operational Research (26. EURO/INFORMS), Roma, Italy, 1 - 04 July 2013, pp.7
- XXXI. **A Multiple Objective Mathematical Programming Model for a Closed Loop Supply Chain Network Design under Uncertainty**  
SUBULAN K., BAYKASOĞLU A., ÖZSOYDAN F. B., TAŞAN A. S., SELİM H.  
International IIE Conference - Yöneyim Araştırması ve Endüstri Mühendisliği (YAEM) 33. Ulusal Kongresi, İstanbul, Turkey, 26 - 28 June 2013
- XXXII. **A Comparison of Two Evolutionary Algorithms on the Cumulative Capacitated Vehicle Routing Problem**  
SİPAHİOĞLU A., ÖZSOYDAN F. B.

- 25th Conference of European Chapter on Combinatorial Optimization, Antalya, Turkey, 26 - 28 April 2012, pp.20
- XXXIII. **A New Discrete Particle Swarm Optimization Design for the Multi Depot Open Vehicle Routing Problem**  
SİPAHİOĞLU A., ÖZSOYDAN F. B.  
IX International Logistics Supply Chain Congress, İzmir, Turkey, 27 - 29 October 2011, pp.363-370
- XXXIV. **A Discrete Particle Swarm Optimization Algorithm For The Capacitated P Median Problem**  
ÖZSOYDAN F. B., SİPAHİOĞLU A.  
12th International Symposium on Econometrics Operations Research and Statistics, Denizli, Turkey, 26 - 29 May 2011, pp.130-135
- XXXV. **Determination of Optimal Kitchen Faucets Styles By A New Genetic Algorithm**  
AKTAR DEMİRTAŞ E., ÖZSOYDAN F. B.  
12th International Symposium on Econometrics Operations Research and Statistics, Denizli, Turkey, 26 - 29 May 2011, pp.121-129
- XXXVI. **A Discrete Particle Swarm Optimization Algorithm for Bi Criteria Warehouse Location Problem**  
ÖZSOYDAN F. B., SARAÇ T.  
12th International Symposium on Econometrics Operations Research and Statistics, Denizli, Turkey, 26 - 29 May 2011, pp.291
- XXXVII. **A SOLUTION APPROACH FOR STAFF SCHEDULING IN SERVICE SYSTEMS**  
ÖZSOYDAN F. B., SİPAHİOĞLU A.  
24th European Conference on Operational Research, Lizbon, Portugal, 11 - 14 July 2010, pp.112
- XXXVIII. **DARBOĞAZ GEZGİN SATICI PROBLEMİ İÇİN BİR ÇÖZÜM YAKLAŞIMI ÖNERİSİ**  
ÖZSOYDAN F. B., SİPAHİOĞLU A.  
Yöneylem Araştırması ve Endüstri Mühendisliği Kongresi 2010, İstanbul, Turkey, 30 June - 02 July 2010, pp.120-121

## Supported Projects

TECİM V., YILDIZ C., TARHAN Ç., AYDIN C., AŞAN H., ÖZSOYDAN F. B., ÖNAL O., TUMAY S., BOZTEPE MUTLU P., YENİPAZARLI G., et al, Project Supported by Higher Education Institutions, Dokuz Eylül Üniversitesi Kampüslerinde Coğrafi Bilgi Sistemleri Teknolojisi İle Akıllı Üniversite Altyapısının Oluşturulması, 2022 - Continues

Özsoydan F. B., Kahyaoğlu B., Tarhan A. S., TUBITAK Project, Elektrik Motoru Üreten Bir İşletmede Veri Analizi ve Makine Öğrenmesi Uygulamaları: Segmentasyon ve Tahminleme Çalışmaları, 2024 - 2025

Özsoydan F. B., Tunçdamar A., Çorapçioğlu Ö., TUBITAK Project, Üst Sezgisel Optimizasyon Algoritmaları ile Tasarım Optimizasyonu Yapan bir Karar Destek Sistemi Geliştirilmesi, 2024 - 2025

Özsoydan F. B., T\*\*\* A., Project Supported by Other Official Institutions, TUSAŞ LiftUp: A Metaheuristic Aided Decision Support System for Mechanical Optimization , 2023 - 2024

ÖZSOYDAN F. B., GÖLCÜK İ., Project Supported by Higher Education Institutions, Makine öğrenmesi algoritmalarının iş-makine çizelgeleme problemlerindeki performanslarının araştırılması: Bulut bilişim tabanlı bir prototip model önerisi, 2022 - 2024

Gölcük İ., Özsoydan F. B., Project Supported by Higher Education Institutions, Değişen ortamlarda yapay sinir ağlarını eğitmek için dinamik metasezgisel algoritmaların geliştirilmesi, 2021 - 2022

ÖZSOYDAN F. B., BAYKASOĞLU A., DUDAKLI N., Project Supported by Higher Education Institutions, Tam Otomatik Otopark Sistemlerinde Hizmet Sürelerinin İyileştirilmesi, 2017 - 2018

Baykasoğlu A., TUBITAK Project, Dinamik Meta-Sezgisel Optimizasyon, 2015 - 2017

BAYKASOĞLU A., Industrial Thesis Project, Isıl İşlem Fırınlarının Dinamik Yüklenmesiyle Norm Cıvata A Ş de Verimlilik İyileştirme, 2014 - 2015

## Metrics



Publication: 75  
Citation (WoS): 850  
Citation (Scopus): 983  
H-Index (WoS): 18  
H-Index (Scopus): 19

## **Awards**

Özsoydan F. B., TÜBİTAK Üniversite Öğrencileri Araştırma Proje Yarışmaları / Bölge İkincilik Ödülü, Tübitak, June 2019  
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Ar-Ge kategorisi, T.C. Bilim, Sanayi Ve Teknoloji, Bakanlığı, August 2015