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### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Y.T.Ü, Kimya-Metalurji,

Matematik Mühendisliği, Türkiye

1993 - 1997

Yüksek Lisans, Y.T.Ü, Kimya-Metalurji,

Matematik Mühendisliği, Türkiye

1990 - 1993

Lisans, Y.T.Ü, Kimya-Metalurji,

Matematik Mühendisliği, Türkiye

1986 - 1990

### Yabancı Diller

İngilizce, C1 İleri

### Araştırma Alanları

Matematik, Optimizasyon, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Matematik Müh.Bölümü, 2019 - Devam Ediyor

### Verdiği Dersler

KOMPLEKS ANALİZ, Lisans, 2018 - 2019

PROJE PLAN VE YÖNETİMİ, Lisans, 2016 - 2017

BULANIK MANTIK, Lisans, 2017 - 2018

ANALİZ 1, Lisans, 2017 - 2018

ANALİZ 2, Lisans, 2016 - 2017

### Yönetilen Tezler

Albayrak F. İ., Sistem optimal bulanık trafik atama probleminin optimizasyonu, Doktora, G.TEMELCAN(Öğrenci), 2020

- Albayrak F. İ., BULANIK MANTIK YAKLAŞIMI İLE İNSAN KAYNAKLARI YÖNETİMİ, Yüksek Lisans, J.KONAÇOĞLU(Öğrenci), 2017
- Albayrak F. İ., HİLBERT UZAYLARI ÜZERİNDE KENDİNE EŞ OPERATÖRLERİN SPEKTRAL ÖZELLİKLERİ, Yüksek Lisans, T.DUYGUN(Öğrenci), 2013
- Albayrak F. İ., INTEREST RATE RİSK MANAGEMENT OF COMMERCIAL BANKS: EVIDENCE FROM TURKEY, Yüksek Lisans, B.ÇETECİ(Öğrenci), 2011
- Albayrak F. İ., HİLBERT UZAYLARINDA KOMPAKT OPERATÖRLERİN SPEKTRAL TEORİSİ, Yüksek Lisans, A.KAYRAK(Öğrenci), 2011
- Albayrak F. İ., KONTROL EDİLEBİLİR RİSK, Yüksek Lisans, B.HANLIOĞLU(Öğrenci), 2011
- Albayrak F. İ., BİREYSEL EMEKLİLİK SİSTEMİ VE EMEKLİLİK YATIRIM FONLARINDA PERFORMANSA BAĞLI RİSK ANALİZİ, Yüksek Lisans, H.ŞİMŞEK(Öğrenci), 2010

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Unravelling poly(1-vinyl-1,2,4-triazole) hydrogels behaviors and enhancing 5-Fluorouracil delivery systems by utilizing a fuzzy modelling approach**  
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Physica Scripta, cilt.99, sa.8, 2024 (SCI-Expanded)
- II. **On Modeling of Surface Tension of CMC- $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Nanoparticles by Fuzzy-Hybrid Approach: A Comparison Study**  
Köçken H., Insel M. A., Temelcan G., Karakuş S., Albayrak F. İ.  
CANADIAN JOURNAL OF CHEMICAL ENGINEERING, cilt.101, sa.11, ss.6446-6454, 2023 (SCI-Expanded)
- III. **Handling uncertainty in rheological properties of green eggshell nanocomposites by a fuzzy-hybrid modeling approach: a comparative study**  
İnsel M. A., Karakuş S., Temelcan G., Köçken H., Albayrak F. İ.  
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- IV. **Preparation, characterization and evaluation of a novel CMC/Chitosan- $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles-coated 17–4 PH stainless-steel foam**  
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Polymer Bulletin, cilt.79, sa.6, ss.4133-4151, 2022 (SCI-Expanded)
- V. **Characterization, optimization, and evaluation of preservative efficacy of carboxymethyl cellulose/hydromagnesite stromatolite bio-nanocomposite**  
Karakuş S., Insel M. A., Kahyaoğlu İ. M., Albayrak F. İ., Üstün Alkan F.  
Cellulose, cilt.29, sa.7, ss.3871-3887, 2022 (SCI-Expanded)
- VI. **Finding compromise solutions for fully fuzzy multi-objective linear programming problems by using game theory approach**  
Temelcan G., Gonce Kocken H., Albayrak I.  
Journal of Intelligent and Fuzzy Systems, cilt.42, sa.1, ss.283-293, 2022 (SCI-Expanded)
- VII. **Fuzzy modelling of static system optimum traffic assignment problem having multi origin-destination pair**  
Temelcan G., KÖÇKEN H., Albayrak I.  
Socio-Economic Planning Sciences, cilt.77, 2021 (SCI-Expanded)
- VIII. **Preparation and characterization of carboxymethyl cellulose/poly (ethylene glycol) -rosin pentaerythritolester polymeric nanoparticles: Role of intrinsic viscosity and surface morphology**  
Karakuş S., İlgar M., Tan E., Kahyaoğlu İ. M., Tasaltın N., Albayrak I., Insel M. A., Kilislioglu A.  
Surfaces and Interfaces, cilt.21, 2020 (SCI-Expanded)
- IX. **SYSTEM OPTIMUM FUZZY TRAFFIC ASSIGNMENT PROBLEM**  
Temelcan G., Kocken H., Albayrak I.  
PROMET-TRAFFIC & TRANSPORTATION, cilt.31, sa.6, ss.611-620, 2019 (SCI-Expanded)
- X. **On fuzzy solutions of the nonsquare fully fuzzy linear equation system with arbitrary triangular fuzzy numbers**  
Albayrak I.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, cilt.33, sa.6, ss.3929-3938, 2017 (SCI-Expanded)
- XI. **Finding the fuzzy solutions of a general fully fuzzy linear equation system**  
Kocken H., AHLATCIOĞLU M., ALBAYRAK F. İ.

- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, cilt.30, sa.2, ss.921-933, 2016 (SCI-Expanded)
- XII. **An approach for finding fuzzy optimal and approximate fuzzy optimal solution of fully fuzzy linear programming problems with mixed constraints**  
Özkök B., Albayrak F. İ., Köçken H., Ahlatcioğlu M.  
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- XIII. **A mixed integer programming approach to a square fully fuzzy linear equation**  
AHLATCIOĞLU M., Albayrak I., Kocken H. G., Ozkok B.  
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- XIV. **On the degree of approximation of functions belonging to a Lipschitz class by Hausdorff means of its fourier series**  
Rhoades B. E., Ozkoklu K., Albayrak I.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.217, sa.16, ss.6868-6871, 2011 (SCI-Expanded)
- XV. **A regularized trace formula for second order differential operator equations**  
KÖKLÜ K., ALBAYRAK F. İ., BAYRAMOV A.  
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- XVI. **A REGULARIZED TRACE FORMULA FOR DIFFERENTIAL EQUATIONS WITH TRACE CLASS OPERATOR COEFFICIENTS**  
ALBAYRAK F. İ., KÖKLÜ K., BAYRAMOV A.  
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- XVII. **The question of equivalence for generalized Hausdorff matrices**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Predicting survival of patients with heart failure by optimizing the hyperparameters**  
İNSEL M. A., SADE J., MUŞTU S., KÖÇKEN H., ALBAYRAK F. İ.  
INTERNATIONAL JOURNAL OF KNOWLEDGE-BASED AND INTELLIGENT ENGINEERING SYSTEMS, 2024 (ESCI)
- II. **Solving Multi-Objective Linear Fractional Programming Problems via Zero-Sum Game**  
TEMELCAN G., ALBAYRAK F. İ., SİVRİ M.  
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- III. **A Game Theory-based Approach to Fuzzy Linear Transportation Problem**  
TEMELCAN G., KÖÇKEN H., ALBAYRAK F. İ.  
Fuzzy Logic and Modeling in Engineering, cilt.1, sa.2, ss.28-33, 2022 (Hakemli Dergi)
- IV. **A Solution Approach for a Class of Parametric Linear Programming Problems**  
SİVRİ M., ALBAYRAK F. İ., ŞİMŞEK ALAN K., TEMELCAN G.  
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.10, ss.2901-2906, 2020 (Hakemli Dergi)
- V. **A new iterative linearization approach for solving nonlinear equations systems**  
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An International Journal of Optimization and Control: Theories Applications (IJOCTA), cilt.10, sa.1, ss.47-54, 2020 (Scopus)
- VI. **An Alternative Algorithm for Solving Pure Integer Linear Programming Problems Having Two Variables**  
Şimşek Alan K., Sivri M., Albayrak F. İ., Güler C.  
International Journal of Applied Information Systems, ss.6-9, 2019 (Hakemli Dergi)
- VII. **A New Successive Linearization Approach for Solving Nonlinear Programming Problems**  
ALBAYRAK F. İ., SİVRİ M., TEMELCAN G.  
APPLICATIONS AND APPLIED MATHEMATICS-AN INTERNATIONAL JOURNAL, cilt.14, sa.1, ss.437-451, 2019 (Hakemli Dergi)
- VIII. **GENERATING A SET OF COMPROMISE SOLUTIONS OF A MULTI-OBJECTIVE LINEAR PROGRAMMING PROBLEM THROUGH GAME THEORY**  
SİVRİ M., KÖÇKEN H., Albayrak I., AKIN BAŞ S.  
OPERATIONS RESEARCH AND DECISIONS, cilt.29, sa.2, ss.77-88, 2019 (ESCI)
- IX. **A Novel Solution Approach using Linearization Technique for Nonlinear Programming Problems**

SİVRİ M., ALBAYRAK F. İ., TEMELCAN G.

International Journal of Computer Applications, cilt.181, ss.1-5, 2018 (Hakemli Dergi)

- X. **A Solution Algorithm for Interval Transportation Problems via Time-Cost Tradeoff**  
Albayrak F. İ., Temelcan G., Sivri M.  
JOURNAL OF ADVANCES IN MATHEMATICS, cilt.14, sa.2, ss.7691-7701, 2018 (Hakemli Dergi)
- XI. **A new iterative approach for solving nonlinear programming problem**  
Sivri M., Albayrak F. İ., Temelcan G.  
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- XII. **A new fuzzy decision making approach for personnel selection problem**  
Konaçoğlu J., Albayrak İ.  
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- XIII. **A Novel Approach for Solving Quadratic Fractional Programming Problems**  
SİVRİ M., Albayrak İ., Temelcan G.  
CROATIAN OPERATIONAL RESEARCH REVIEW, cilt.9, sa.2, ss.199-209, 2018 (ESCI)
- XIV. **On the eigenvalues of second order differential equation which has lag argument with spectral parameter in boundary conditions in half axis**  
ALBAYRAK F. İ., Akgun F.  
International Mathematical Journal, cilt.6, sa.2, ss.51-58, 2005 (Hakemli Dergi)
- XV. **CALCULATED OF REGULARIZED TRACE OF A EVEN ORDER DIFFERENTIAL EQUATION IN FINITE INTERVAL**  
ALBAYRAK F. İ., Akgun F.  
Sigma Journal of Engineering and Natural Sciences, sa.4, ss.272-278, 2004 (ESCI)
- XVI. **On the green functions concerned with one partial differential operator expression**  
ALBAYRAK F. İ., Bayramoğlu M.  
Mathematics, International Ecoenergy Academy, cilt.2, ss.14-18, 2004 (Hakemli Dergi)
- XVII. **Formula for the highly regularized trace of Sturm Liouville operator with unbounded operator coefficients which has singularity**  
Albayrak F. İ., Baykal Ünal O., Gül E.  
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- XVIII. **The second regularized trace formula for the sturm liouville problem with spectral parameter in a boundary condition**  
ALBAYRAK F. İ., Bayramoğlu M., Adıgüzelov E.  
Methods of functional analysis and topology, cilt.6, sa.3, ss.1-8, 2000 (ESCI)
- XIX. **Yarı ekseninde verilmiş dördüncü mertebeden operatör katsayılı diferansiyel denklemin green fonksiyonunun bulunması**  
ALBAYRAK F. İ., Bayramoğlu M.  
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## Kitaplar

- I. **Data-driven AI for information retrieval of biomedical images**  
İnsel M. A., Köçken H., Albayrak F. İ., Karakuş S.  
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- II. **The Ultrasonic-Assisted Synthesis of Locust Gum/PEG- Silver Nanoparticles and Its Mathematical Modeling of Rheological Parameters**  
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Foundation and Growth of Macromolecular Science: Advances in Research for Sustainable Development, Meegle S. Mathew, Jozef T. Haponiuk, Sabu Thomas, Editör, CRC, New York, New York, ss.1, 2023
- III. **A Numerical Method for Integration of a Fuzzy Function over a Fuzzy Interval**  
TEMELCAN G., KÖÇKEN H., ALBAYRAK F. İ.  
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- IV. **SOLVING THE SYSTEM OPTIMUM STATIC TRAFFIC ASSIGNMENT PROBLEM WITH SINGLE ORIGIN DESTINATION PAIR IN FUZZY ENVIRONMENT**  
ALBAYRAK F. İ., KÖÇKEN H., TEMELCAN G.  
ADVANCES IN INTELLIGENT SYSTEM AND COMPUTING, Janusz Kacprzyk, Editör, SPRINGER, ss.521-530, 2021
- V. **A Short Review on Fuzzy System of Linear Equations Applications**  
Köçken H., Albayrak F. İ.  
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- VI. **A Short Review on Fuzzy System of Linear Equations**  
Köçken H., Albayrak F. İ.  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **A Numerical Method for Integration of a Fuzzy Function over a Fuzzy Interval**  
Temelcan G., Kocken H., Albayrak I.  
International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Türkiye, 24 - 26 Ağustos 2021, cilt.307, ss.281-288
- II. **Solving the System Optimum Static Traffic Assignment Problem with Single Origin Destination Pair in Fuzzy Environment**  
Temelcan G., Köçken H., Albayrak F. İ.  
International Conference on Intelligent Decision Science, İstanbul, Türkiye, 7 - 08 Ağustos 2021, ss.521-530
- III. **Solving Fuzzy Multi-objective Linear Programming Problems Using Multi-player Zero-Sum Game**  
Temelcan G., Albayrak I., Köçken H., Sivri M.  
International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Türkiye, 21 - 23 Temmuz 2020, cilt.1197 AISC, ss.1483-1490
- IV. **Optimization of Surface Properties of K-Carrageenan/PVA/Eggshell Nanobiocomposites Coated 17-4 PH Stainless Steel Foam**  
Karakuş S., Beköz Üllen N., Albayrak F. İ., Insel M. A., Kilislioğlu A.  
3rd International Conference on Physical Chemistry & Functional Materials, Malatya, Türkiye, 22 - 24 Eylül 2020, ss.25-32
- V. **Mathematical Modelling of Surface Behaviors of ZnO Nanoparticles Coated 17-4 PH Stainless Steel Foam**  
Karakuş S., Albayrak F. İ., Beköz Üllen N., Insel M. A., Kilislioğlu A.  
3rd International Conference on Physical Chemistry & Functional Materials, Malatya, Türkiye, 22 - 24 Eylül 2020, ss.33-39
- VI. **Comparison of Nontraditional Optimization Techniques in Optimization of Shell and Tube Heat Exchanger**  
İnsel M. A., Albayrak F. İ., Köçken H.  
International Conference on Mathematics and its Applications in Science and Engineering (ICMASE2020), Ankara, Türkiye, 9 - 10 Temmuz 2020, ss.185-196
- VII. **Fuzzy Modelling on Control of Heat Exchangers**  
İnsel M. A., Albayrak F. İ., Köçken H.  
International Conference on Mathematics and its Applications in Science and Engineering (ICMASE2020), Ankara, Türkiye, 9 - 10 Temmuz 2020, ss.177-184
- VIII. **An Algorithm for Solving Pure Integer Linear Programming Problems**  
SİVRİ M., ALBAYRAK F. İ., Gonca Kocken H., ŞİMŞEK ALAN K.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 2019, 10 Mart - 13 Ekim 2019
- IX. **GENERATING A SET OF COMPROMISE SOLUTIONS OF A MULTI-OBJECTIVE LINEAR PROGRAMMING PROBLEM USING GAME THEORY**  
Sivri M., Gonca Köçken H., Albayrak F. İ., Esen H.  
(ICMSA2018), Karaman, Türkiye, 04 Ekim 2018, ss.111
- X. **A new method for generating some extreme points of a convex polyhedron for solving multi-objective linear programming problems using game theory approach**  
Sivri M., Köçken H., Albayrak F. İ., Temelcan G., Esen H.  
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- XI. **A game theory based approach to generate a set of compromise solutions of a multiobjective linear programming problem**  
SİVRİ M., KÖÇKEN H., ALBAYRAK F. İ., AKIN S.  
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- XII. **User-Optimum Fuzzy Traffic Assignment Problem**  
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- XIII. **User-Optimum Fuzzy Traffic Assignment Problem**  
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- XIV. **A Solution Procedure for Interval Transportation Problems via Time-Cost Trade off**  
Temelcan G., ALBAYRAK F. İ., SİVRİ M.  
User-Optimum Fuzzy Traffic Assignment Problem??,13th Balkan Conference on Operational Research (BALCOR'18) ,Belgrade, Serbia,p:57May 25-28, 2018., Belgrade, Sırbistan Ve Karadağ, 25 Mayıs 2018, ss.32
- XV. **FUZZY ANALYSIS OF A TRAFFIC ASSIGNMENT PROBLEM**  
TEMELCAN G., KÖÇKEN H., ALBAYRAK F. İ.  
37.YÖNEYLEM ARAŞTIRMASI VE ENDÜSTRİ MÜHENDİSLİĞİ ULUSAL KONGRESİ, Türkiye, 5 - 07 Temmuz 2017
- XVI. **Fuzzy Analysis of a traffic assignment problem**  
TEMELCAN G., KÖÇKEN H., ALBAYRAK F. İ.  
37. YÖNEYLEM ARAŞTIRMASI VE ENDÜSTRİ MÜHENDİSLİĞİ ULUSAL KONGRESİ, Türkiye, 5 - 07 Temmuz 2017
- XVII. **A New Incremental Technique for solving Nonlinear programming Problems**  
SİVRİ M., ALBAYRAK F. İ., TEMELCAN G.  
International Conference on Applied Analysis and Mathematical Modeling, 7 Mart - 07 Temmuz 2017
- XVIII. **A Fuzzy Mathematical Model for personnel selection problem**  
KONAÇOĞLU J., ALBAYRAK F. İ.  
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- XIX. **A new iterative approach for solving nonlinear programming problems**  
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- XX. **FUZZY EQUILIBRIUM ANALYSIS OF A TRANSPORTATION NETWORK PROBLEM**  
TEMELCAN G., KÖÇKEN H., ALBAYRAK F. İ.  
IFSCOM, Mersin, Türkiye, 29 Ağustos - 01 Eylül 2016
- XXI. **On fuzzy solutions of the nonsquare fully fuzzy linear equation system with arbitrary triangular fuzzy numbers**  
ALBAYRAK F. İ.  
2 nd International conference on pure and Applied Science. Istanbul, İstanbul, Türkiye, 1 - 05 Haziran 2016
- XXII. **On the Solution of a nxn Fully Fuzzy Linear Equation System with Triangular Fuzzy Numbers**  
Ahlaticioğlu M., Albayrak F. İ., Köçken H., Özkök B.  
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- XXIII. **A trace Formula for an abstract Sturm-Liouville operator**  
Albayrak I., KÖKLÜ K., Bayramov A.  
14th International Conference on Difference Equations and Applications "Abstract Book of ICDEA 2008, İstanbul, Türkiye, 01 Temmuz 2008, ss.58
- XXIV. **On regularized trace of a differential equation with spectral parameter in boundary condition**  
ALBAYRAK F. İ., Bayramoğlu M.  
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- XXV. **On Green function of fourth ordered differential equation with operator coefficient**  
ALBAYRAK F. İ., Akgun F.  
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- XXVI. **Asympyoyic expression of eigenvalues number of even order equation with operator coefficient, given in real axis**

- ALBAYRAK F. İ., AKGUN F.  
XV. ULUSAL MATEMATİK SEMPOZYUMU, 01 Eylül 2002
- XXVII. **Spectral Parametrede Ağırlık Fonksiyonu Olan Sturm-Liouville Operatör Denkleminin Küçük Parametreye Göre Negatif Özdeğerler Sayısının Asimptotik İfadesi**  
ALBAYRAK F. İ., Albayrak İ.  
Second International Symposium on Mathematical and Computational Applications, 01 Eylül 1999
- XXVIII. **Çift mertebeden iki terimli diferansiyel operatör denklemin esaslı kendine eşleniği**  
ALBAYRAK F. İ.  
1 st Turkish World Mathematics Symposium, 01 Haziran 1999
- XXIX. **ÇİFT MERTEBEDEN İKİ TERİMLİ KENDİNE EŞ OPERATÖR KATSAYILI DİFERANSİYEL OPERATÖRÜN REZOLVENTİ ÜZERİNE**  
ALBAYRAK F. İ., BAYRAMOĞLU M.  
XI. ULUSAL MATEMATİK SEMPOZYUMU, 01 Eylül 1998
- XXX. **YARI EKSENDE VERİLMİŞ DÖRDÜNCÜ MERTEBEDEN DİFERANSİYEL OPERATÖR DENKLEMİN GREEN FONKSİYONUNUN BULUNMASI**  
ALBAYRAK F. İ., BAYRAMOĞLU M.  
XI. DİFERANSİYEL DENKLEMLER SEMPOZYUMU, 01 Eylül 1997

## Desteklenen Projeler

KÖÇKEN H., ALBAYRAK F. İ., TEMELCAN G., Sade J., Yükseköğretim Kurumları Destekli Proje, Bulanık Kompleks Lineer Denklem Sistemlerine Çözüm Önerisi Geliştirilmesi, 2023 - 2023

## Bilimsel Hakemlikler

SOFT COMPUTING, SCI Kapsamındaki Dergi, Ağustos 2019  
promet, SCI Kapsamındaki Dergi, Ocak 2018  
soft computing, SCI Kapsamındaki Dergi, Aralık 2017  
SOFT COMPUTING, SCI Kapsamındaki Dergi, Eylül 2017  
SOFT COMPUTING, SCI Kapsamındaki Dergi, Haziran 2017  
SOFT COMPUTING, SCI Kapsamındaki Dergi, Mayıs 2017  
SOFT COMPUTING, SCI Kapsamındaki Dergi, Nisan 2017  
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SOFT COMPUTING, SCI Kapsamındaki Dergi, Mayıs 2015

## Bilimsel Araştırma / Çalışma Grubu Üyelikleri

Multidisciplinary Nanoscience Technology, Yıldız Teknik Üniversitesi, Türkiye, <https://avesis.istanbulc.edu.tr/arastirma-grubu/mnst>, 2021 - Devam Ediyor

## Metrikler

Yayın: 74  
Atf (WoS): 51  
Atf (Scopus): 85  
H-İndeks (WoS): 5  
H-İndeks (Scopus): 5

## Akademi Dışı Deneyim

