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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

Lisans

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

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- 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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- VI. **Finding compromise solutions for fully fuzzy multi-objective linear programming problems by using game theory approach**
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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**
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- 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., Kahyaoglu I. M., Tasaltin N., Albayrak I., Insel M. A., Kilislioglu A.
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- IX. **SYSTEM OPTIMUM FUZZY TRAFFIC ASSIGNMENT PROBLEM**
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- X. **On fuzzy solutions of the nonsquare fully fuzzy linear equation system with arbitrary triangular fuzzy numbers**
Albayrak I.
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- XI. **Finding the fuzzy solutions of a general fully fuzzy linear equation system**

- Kocken H., AHLATCIOĞLU M., ALBAYRAK F. İ.
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- XII. **An approach for finding fuzzy optimal and approximate fuzzy optimal solution of fully fuzzy linear programming problems with mixed constraints**
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- XIII. **A mixed integer programming approach to a square fully fuzzy linear equation**
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- XIV. **On the degree of approximation of functions belonging to a Lipschitz class by Hausdorff means of its fourier series**
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- 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**
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- II. **Solving Multi-Objective Linear Fractional Programming Problems via Zero-Sum Game**
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- III. **A Game Theory-based Approach to Fuzzy Linear Transportation Problem**
TEMELCAN G., KÖÇKEN H., ALBAYRAK F. İ.
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- IV. **A Solution Approach for a Class of Parametric Linear Programming Problems**
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Şimşek Alan K., Sivri M., Albayrak F. İ., Güler C.
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- 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.
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- IX. **A Novel Solution Approach using Linearization Technique for Nonlinear Programming Problems**
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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**
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- XII. **A new fuzzy decision making approach for personnel selection problem**
Konaçoğlu J., Albayrak I.
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- XIII. **A Novel Approach for Solving Quadratic Fractional Programming Problems**
SİVRİ M., Albayrak I., Temelcan G.
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- XIV. **On the eigenvalues of second order differential equation which has lag argument with spectral parameter in boundary conditions in half axis**
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ALBAYRAK F. İ., Akgun F.
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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**
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- XIX. **Yarı ekseninde verilmiş dördüncü mertebeden operatör katsayılı diferansiyel denklemin green fonksiyonunun bulunması**
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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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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**
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Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation. INFUS 2021 Lecture Notes in Networks and Systems, Kahraman, C., Cebi, S., Cevik Onar, S., Oztaysi, B., Tolga, A.C., Sari, I.U., Editör, Springer, Cham., ss.281-

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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.

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V. A Short Review on Fuzzy System of Linear Equations Applications

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Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

I. A Numerical Method for Integration of a Fuzzy Function over a Fuzzy Interval

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II. Solving the System Optimum Static Traffic Assignment Problem with Single Origin Destination Pair in Fuzzy Environment

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International Conference on Intelligent Desicion 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 Ülgen 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 Ülgen N., Insel M. A., Kilislioğlu A.

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VI. Comparison of Nontraditional Optimization Techniques in Optimization of Shell and Tube Heat Exchanger

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VII. Fuzzy Modelling on Control of Heat Exchangers

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VIII. An Algorithm for Solving Pure Integer Linear Programming Problems

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IX. GENERATING A SET OF COMPROMISE SOLUTIONS OF A MULTI-OBJECTIVE LINEAR PROGRAMMING PROBLEM USING GAME THEORY

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X. A new method for generating some extreme points of a convex polyhedron for solving multi-objective linear programming problems using game theory approach

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- XI. **A game theory based approach to generate a set of compromise solutions of a multiobjective linear programming problem**
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- XII. **User-Optimum Fuzzy Traffic Assignment Problem**
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- XIV. **A Solution Procedure for Interval Transportation Problems via Time-Cost Trade off**
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- 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**
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- XVIII. **A Fuzzy Mathematical Model for personnel selection problem**
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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**
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- XXI. **On fuzzy solutions of the nonsquare fully fuzzy linear equation system with arbitrary triangular fuzzy numbers**
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- XXII. **On the Solution of a nxn Fully Fuzzy Linear Equation System with Triangular Fuzzy Numbers**
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- XXIII. **A trace Formula for an abstract Sturm-Liouville operator**
Albayrak I., KÖKLÜ K., Bayramov A.
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- 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**
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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 Denklemine Küçük Parametreye Göre Negatif Özdeğerler Sayısının Asimptotik İfadesi**

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XXVIII. **Çift mertebeden iki terimli diferansiyel operatör denklemin esaslı kendine eşleniği**

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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

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Bilimsel Yayınlarda Hakemlikler

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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

AK YATIRIM T.A.Ş., FON YÖNETİCİSİ