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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Türkiye 2002 - 2007

Yüksek Lisans, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Türkiye 1998 - 2002

Lisans, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1993 - 1998

Yabancı Diller

İngilizce, B1 Orta

Yaptığı Tezler

Doktora, DEĞİŞKEN KATSAYILI FOURİER SERİLERİYLE PARABOLİK DENKLEMLER İÇİN DEVİRLİ SINIR KOŞULLU KARIŞIK PROBLEMİN ANALİZİ , Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, 2007

Yüksek Lisans, GECİKMELİ DİFERANSİYEL DENKLEMLER VE KARARLILIK TEORİSİ , Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, 2002

Araştırma Alanları

Matematik, Fourier Analizi, Temel Bilimler

Akademik Unvanlar / Görevler

Doç. Dr., Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2015 - Devam Ediyor

Dr. Öğr. Üyesi, Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2010 - 2015

Araştırma Görevlisi Dr., Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2008 - 2010

Araştırma Görevlisi, Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 1999 - 2007

Verdiği Dersler

Seminer II, Lisans, 2018 - 2019

Matematik I, Lisans, 2019 - 2020

Diferansiyel Denklemler, Lisans, 2019 - 2020
Seminer I, Lisans, 2019 - 2020
Matematik II, Lisans, 2018 - 2019
Uzmanlık Alan Dersi, Yüksek Lisans, 2019 - 2020
Diferansiyel Denklemlerde Fourier Yöntemleri, Yüksek Lisans, 2018 - 2019
Laplace Dönüşümleri ve Uygulamaları, Yüksek Lisans, 2018 - 2019
Harmonik Analiz ve Uygulamaları, Yüksek Lisans, 2018 - 2019

Yönetilen Tezler

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Jüri Üyelikleri

Tez Savunma (Sanatta Yeterlik), Tez Savunma (Sanatta Yeterlik), Kocaeli Üniversitesi, Haziran, 2022
Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Kocaeli Üniversitesi, Haziran, 2022
Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama-Yardımcı Doçentlik, Kocaeli Üniversitesi, Mayıs, 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Inverse coefficient problem for quasilinear pseudo-parabolic equation by Fourier method**
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- II. **Analysis for two-dimensional inverse quasilinear parabolic problem by Fourier method**
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- III. **Fourier method for higher dimensional inverse quasi-linear parabolic problem**
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- IV. **Solution of the Boundary-Value Problem of Heat Conduction with Periodic Boundary Conditions**
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Ukrainian Mathematical Journal, cilt.72, ss.232-245, 2020 (SCI-Expanded)
- V. **Mathematical modeling of heat distribution on carbon fiber Poly(ether-ether-ketone) (PEEK) composite during laser ablation**
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- VI. **Mathematical modelling of laser ablation of random oriented short glass fiber reinforced Polyphenylene sulphide (PPS) polymer composite**
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- VII. **Two-dimensional inverse quasilinear parabolic problem with periodic boundary condition**
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- VIII. **Determination of an Unknown Heat Source from Integral Overdetermination Condition**
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IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, cilt.42, ss.1373-1382, 2018 (SCI-Expanded)

- IX. **Inverse Problem for Euler-Bernoulli Equation with Periodic Boundary Condition**
Kanca F., BAĞLAN İ.
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- X. **Determination of a coefficient in a quasilinear parabolic equation with periodic boundary condition**
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- XI. **An inverse coefficient problem for a quasilinear parabolic equation with periodic boundary and integral overdetermination condition**
BAĞLAN İ., Kanca F.
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- XII. **Weak generalized and numerical solution for a quasilinear pseudo-parabolic equation with nonlocal boundary condition**
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- XIII. **An inverse problem for a quasilinear parabolic equation with nonlocal boundary and overdetermination conditions**
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- XV. **Continuous dependence on data for a solution of the quasilinear parabolic equation with a periodic boundary condition**
Kanca F., Bağlan I. S.
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- XVI. **NUMERICAL SOLUTION OF A QUASILINEAR PARABOLIC PROBLEM WITH PERIODIC BOUNDARY CONDITION**
Sakinc I.
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- XVII. **FOURIER METHOD FOR A QUASILINEAR PARABOLIC EQUATION WITH PERIODIC BOUNDARY CONDITION**
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- II. **Analytical and Numerical Investigation of Two-Dimensional Heat Transfer with Periodic Boundary Conditions**
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- III. **Analysis of Inverse Coefficient Problem for Euler-Bernoulli Equation with Periodic and Integral Conditions**
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- IV. **Stability of Solution of Quasilinear Parabolic Two-Dimensional with Inverse Coefficient by Fourier Method**
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Natural & applied sciences journal, cilt.6, sa.1, ss.9-20, 2023 (Hakemli Dergi)
- V. **Analysis of Inverse Euler-Bernoulli Equation with periodic boundary conditions**
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- VI. **Solution of Parabolic Problem with Inverse Coefficient $s(t)$ with Periodic and Integral Conditions**
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- VII. **Timur Canel- İrem Bağlan, " Optimization with Taguchi Method of Laser Parameters Necessary for Smooth Groove Bottom in ZAMAK 5**
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- XI. **Mathematical Modeling of the Shape of Cavity Created with Laser Using Melting, Boiling Temperature.**
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Turkish Journal of Science, cilt.6, sa.3, ss.162-166, 2021 (Hakemli Dergi)
- XII. **Mathematical Modeling of the Effect of CO₂ Laser Power on Texture Size on Polyoxmethylen (POM) Sheet**
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- XIII. **Mathematical Modeling of the Effect of CO₂ Laser Parameter on Shape and Geometry of Polymer Plate**
Canel T., Bağlan İ.
Turkish Journal of Science, cilt.5, sa.3, ss.257-261, 2020 (Hakemli Dergi)
- XIV. **An inverse coefficient problem for quasilinear pseudo-parabolic of heat conduction of Poly(methyl methacrylate) (PMMA)**
Bağlan İ., Canel T.
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- XVI. **Continuous Dependence on Data for a Solution of determination of an unknown source of Heat Conduction of Poly(methyl methacrylate) (PMMA)**
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- XVII. **FOURIER METHOD FOR THE INVERSE COEFFICIENT OF THE PSEUDO-PARABOLIC EQUATION WITH**

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- XIX. **ANALYSIS OF TWO-DIMENSIONAL NON-LINEAR BURGERS'xx EQUATIONS**
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- XX. **Fourier method for inverse problem coefficient euler-bernoulli beam equation**
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- XXIII. **Analysis of inverse parabolic problem with nonlocal boundary condition**
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- XXIV. **ANALYSIS OF TWO DIMENSIONAL PARABOLIC EQUATION WITH PERIODIC BOUNDARY CONDITIONS**
GÜLKAÇ V., BAĞLAN İ.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, cilt.67, ss.328-334, 2018 (Hakemli Dergi)
- XXV. **A geometric modeling of 2-dimensional parabolic problem with periodic boundary condition**
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Malaya Journal of Matematik, cilt.6, ss.286-290, 2018 (Hakemli Dergi)
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- XXVII. **Identifying an unknown time dependent coefficient for quasilinear parabolic equations**
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- XXVIII. **Generalized and numerical solution for a quasilinear parabolic equation with nonlocal conditions**
Kanca F., BAĞLAN İ.
STUDIA UNIVERSITATIS BABES-BOLYAI MATHEMATICA, cilt.60, sa.4, ss.567-581, 2015 (ESCI)
- XXIX. **The Continuous Dependence and Numerical Approximation of the Solution of the Quasilinear Pseudo-Parabolic Problem with Periodic Boundary Condition**
BAĞLAN İ., kanca f.
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- XXX. **"Fourier Method for a Pseudo-Quasilinear Parabolic Problem with Periodic Boundary Condition",**
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- XXXI. **Dependency of he solution of quasilinear pseudo-parabolic equation wih periodic boundary condition on Epsilon**
BAĞLAN İ., halilov H.

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- I. **Analysis of Inverse Coefficient Non-Linear Pseudo-Hyperbolic Equation with Periodic Boundary Condition**
Bağlan İ., Yernezar A., Aslan E.
Kocaeli Science Congress, Kocaeli, Türkiye, 2 - 04 Ekim 2024, ss.32-40
- II. **Inverse Coefficient Analysis in Semi-Linear Parabolic Heat Conduction Models**
Bağlan İ., Yernezar A.
Kocaeli Science Congress, Kocaeli, Türkiye, 2 - 04 Ekim 2024, ss.15-25
- III. **Equation containing fractional derivative and periodic boundary conditions**
Bağlan İ., Turhan Ş.
Kocaeli Science Congress, Kocaeli, Türkiye, 2 - 04 Ekim 2024, ss.43-50
- IV. **Analytical and Computational Solutions for Nonlinear Hyperbolic Equations with Inverse Coefficient under Periodic Boundary Conditions**
Bağlan İ., Yernezar A., Aslan E.
Kocaeli Science Congress, Kocaeli, Türkiye, 2 - 04 Ekim 2024, ss.5-10
- V. **Numerical Investigation of 2D Heat Transfer with Periodic Boundary Conditions**
Bağlan İ., Aslan E.
14th International Conference on Computational Heat and Mass Transfer, ICCHMT 2023, Düsseldorf, Almanya, 4 - 08 Eylül 2023, ss.207-216
- VI. **CFD Analysis for Heat Distribution on Polycarbonate Plate**
Karabaş M. O., Bağlan İ., Canel T.
6th INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Antalya, Türkiye, 2 - 05 Kasım 2023, cilt.1, sa.1, ss.77
- VII. **Optimization of Depth and Width Size of Dimple's Heat Affected Zone Created by CO2 Laser on Polyamide Plate**
Canel T., Bağlan İ., Ürgün S.
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- VIII. **Numerical investigation of Quasi-linear Hyperbolic Equation with Periodic Boundary Condition**
Bağlan İ., Yernezar A.
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- IX. **Investigation of an inverse coefficient problem for semi-linear parabolic heat conduction**
Bağlan İ., Canel T.
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- X. **Solution of Fourier Method Inverse Coefficient Non Linear Hyperbolic Equation with Periodic Boundary Condition**
Bağlan İ., Yernezar A.
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- XI. **Mathematical Modelling of Boundary of Dimple Created on ZAMAK 5 plate with Nd:YAG Laser**
CANEL T., BAĞLAN İ.
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- XII. **Solution of Two Dimension Quasi-Linear Parabolic Equation with Inverse Coefficient**
BAĞLAN İ., CANEL T.
icoles,2022, Antalya, Türkiye, 19 Mayıs 2022
- XIII. **Investigation of the Effects of CO2 Laser Parameters on the Geometry of the Grooves Formed on the Transparent Polycarbonate (PC) Surface**
CANEL T., BAĞLAN İ.

icoles,2022, Antalya, Türkiye, 19 Mayıs 2022

XIV. Optimization of Laser Machining Parameters with Taguchi L9 Orthogonal Array

CANEL T., BAĞLAN İ.

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XV. Solution of Higher Order Quasi-Linear Parabolic Equation Subject to Periodic Boundary Using Fourier Method

Bağlan İ., Canel T.

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XVI. Mathematical Modeling of the Width of Grooves Created with Laser Beam on Dual-Phase Steel Surface

BAĞLAN İ., CANEL T.

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XVII. Fourier Method for Inverse Coefficient Quasilinear Higher Order Equation

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XVIII. Solution of Higher Order Quasi-Linear Parabolic Equation Subject to Periodic Boundary Conditions Using Fourier Method

BAĞLAN İ., CANEL T.

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XIX. Fourier Methods for Determination of An Unknown Heat Source Poly(Methyl Methacrylate) (PMMA) with Periodic Boundary Conditions

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XXI. Investigation the Effect of Laser Energy on Heat Affected Zone (HAZ) in Fiber Reinforced Polyphenylene Sulphide (PPS) and Mathematical Simulation of HAZ Formation

CANEL T., BAĞLAN İ.

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XXII. The Stability of Solution for Pseudo-Quasilinear Euler Bernoulli Mixed Problem

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XXIV. Continuous dependence on data for a solution of fourth order EulerBernoulli quasilinear equation with periodic boundary condition

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XXV. Fourier Method for Inverse Coefficient Euler-Bernoulli Beam Equation

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XXVI. Mathematical Modeling of Ablation of Carbon Fiber Reinforced Plastics by Lase

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XXVII. Mathematical Modeling of Ablation of Carbon Fiber Reinforced Plastics by Laser

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XXVIII. Determination of an Unknown coefficient for euler bernoulli equation

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XXIX. Solution of a boundary value problem in heat conduction with a periodic boundary condition

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XXX. Inverse Problem for Euler-Bernoulli Equation with Periodic Boundary Condition

KANCA F., BAĞLAN İ.

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XXXI. A Geometric Modeling of the Solution of Two Dimensional Parabolic Equation

BAĞLAN İ., KANCA F., ÖZTÜRK G.

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XXXIII. Determination of Parameter for Euler-Bernoulli Equation with Periodic Boundary Condition

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XXXIV. Determination of an Unknown Heat Source from Integral Overdetermination Condition for Quasilinear Parabolic Equation

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XXXV. Weak Generalized and Numerical Solution for a Pseudo- Quasilinear Parabolic Equation with Nonlocal Boundary Condition

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XXXVI. Yarı Doğrusal Parabolik Denklem için Lokal Olmayan sınır Koşullu Problemin Zayıf ve nümerik Çözümü

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XXVI. Matematik Sempozyumu, DİYARBAKIR, Diyarbakır, Türkiye, 01 Eylül 2012, ss.2

XXXVII. A finite Difference Soluion o the Quasilinear Pseudo-Parabolic Problem with Periodic Boundary Condition

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Bilimsel Dergilerdeki Faaliyetler

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Bağlan İ., ICMRS 2021 4TH INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Bilimsel Kongre / Sempozyum Organizasyonu, Türkiye, Ekim 2021
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