

# Prof. İREM BAĞLAN

## Personal Information

**Email:** isakinc@kocaeli.edu.tr

**Web:** <https://avesis.kocaeli.edu.tr/isakinc>

**Address:** koü fen edebiyat fak.matematik böl.

## International Researcher IDs

ORCID: 0000-0002-1877-9791

Yoksis Researcher ID: 29057

## Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Turkey 2002 - 2007

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Turkey 1998 - 2002

Undergraduate, Kocaeli University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1993 - 1998

## Foreign Languages

English, B1 Intermediate

## Dissertations

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

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

## Research Areas

Mathematics, Fourier Analysis, Natural Sciences

## Academic Titles / Tasks

Professor, Kocaeli University, Fen Edebiyat Fakültesi, 2023 - Continues

Associate Professor, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2015 - 2023

Assistant Professor, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2010 - 2015

Research Assistant PhD, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2008 - 2010

Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 1999 - 2007

## Academic and Administrative Experience

Head of Department, Kocaeli University, Fen Edebiyat Fakültesi, 2024 - Continues

## Courses

### Postgraduate

Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020

Diferansiyel Denklemlerde Fourier Yöntemleri, Postgraduate, 2018 - 2019

Laplace Dönüşümleri ve Uygulamaları, Postgraduate, 2018 - 2019

Harmonik Analiz ve Uygulamaları, Postgraduate, 2018 - 2019

### Undergraduate

Seminer II, Undergraduate, 2018 - 2019

Matematik I, Undergraduate, 2019 - 2020

Diferansiyel Denklemler, Undergraduate, 2019 - 2020

Seminer I, Undergraduate, 2019 - 2020

Matematik II, Undergraduate, 2018 - 2019

## Supervised Theses

Bağlan İ., Periyodik sınır koşullu hiperbolik ters katsayı probleminin Fourier yöntemiyle çözümü, Postgraduate, A.PEKÜZÜN(Student), 2021

## Jury Memberships

Competence In Art, Competence In Art, Kocaeli Üniversitesi, June, 2022

Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Kocaeli Üniversitesi, May, 2019

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

- I. **Experimental Investigation and Mathematical Modeling of Heat Distribution on a Laser-Treated PMMA Surface**  
BAĞLAN İ., CANEL T., BAYRAK M. A.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.49, no.1, pp.1207-1216, 2024 (SCI-Expanded)
- II. **Analysis for two-dimensional inverse quasilinear parabolic problem by Fourier method**  
Kanca F., BAĞLAN İ.  
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.29, no.12, pp.1912-1945, 2021 (SCI-Expanded)
- III. **Fourier method for higher dimensional inverse quasi-linear parabolic problem**  
Bağlan İ., Kanca F.  
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.37, no.3, pp.2222-2234, 2021 (SCI-Expanded)
- IV. **Mathematical modeling of heat distribution on carbon fiber Poly(ether-ether-ketone) (PEEK) composite during laser ablation**  
Canel T., Bağlan İ., Sınmazçelik T.  
Optics and Laser Technology, vol.127, 2020 (SCI-Expanded)
- V. **Mathematical modelling of laser ablation of random oriented short glass fiber reinforced Polyphenylene sulphide (PPS) polymer composite**  
Canel T., Bağlan İ., Sınmazçelik T.  
OPTICS AND LASER TECHNOLOGY, vol.115, pp.481-486, 2019 (SCI-Expanded)
- VI. **Two-dimensional inverse quasilinear parabolic problem with periodic boundary condition**

- BAĞLAN İ., Kanca F.  
 APPLICABLE ANALYSIS, vol.98, no.8, pp.1549-1565, 2019 (SCI-Expanded)
- VII. **Determination of an Unknown Heat Source from Integral Overdetermination Condition**  
 BAĞLAN İ., Kanca F., MISHRA V. N.  
 IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.42, pp.1373-1382, 2018 (SCI-Expanded)
- VIII. **Inverse Problem for Euler-Bernoulli Equation with Periodic Boundary Condition**  
 Kanca F., BAĞLAN İ.  
 FILOMAT, vol.32, no.16, pp.5691-5705, 2018 (SCI-Expanded)
- IX. **Determination of a coefficient in a quasilinear parabolic equation with periodic boundary condition**  
 Baglan I.  
 INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.23, no.5, pp.884-900, 2015 (SCI-Expanded)
- X. **An inverse coefficient problem for a quasilinear parabolic equation with periodic boundary and integral overdetermination condition**  
 BAĞLAN İ., Kanca F.  
 MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.38, no.5, pp.851-867, 2015 (SCI-Expanded)
- XI. **Weak generalized and numerical solution for a quasilinear pseudo-parabolic equation with nonlocal boundary condition**  
 BAĞLAN İ., Kanca F.  
 ADVANCES IN DIFFERENCE EQUATIONS, 2014 (SCI-Expanded)
- XII. **An inverse problem for a quasilinear parabolic equation with nonlocal boundary and overdetermination conditions**  
 Kanca F., BAĞLAN İ.  
 JOURNAL OF INEQUALITIES AND APPLICATIONS, 2014 (SCI-Expanded)
- XIII. **An inverse coefficient problem for a quasilinear parabolic equation with nonlocal boundary conditions**  
 Kanca F., BAĞLAN İ.  
 BOUNDARY VALUE PROBLEMS, 2013 (SCI-Expanded)
- XIV. **Continuous dependence on data for a solution of the quasilinear parabolic equation with a periodic boundary condition**  
 Kanca F., Baglan I. S.  
 BOUNDARY VALUE PROBLEMS, 2013 (SCI-Expanded)
- XV. **NUMERICAL SOLUTION OF A QUASILINEAR PARABOLIC PROBLEM WITH PERIODIC BOUNDARY CONDITION**  
 Sakinc I.  
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.39, no.2, pp.183-189, 2010 (SCI-Expanded)
- XVI. **FOURIER METHOD FOR A QUASILINEAR PARABOLIC EQUATION WITH PERIODIC BOUNDARY CONDITION**  
 Ciftci I., Halilov H.  
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.37, no.2, pp.69-79, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Fourier Analysis of Inverse Coefficient Nonlinear Hyperbolic Equations under Periodic Boundary Conditions**  
 BAĞLAN İ.  
 Natural and Applied Sciences Journal, vol.7, no.2, pp.1-7, 2024 (Peer-Reviewed Journal)
- II. **The dependency of the analytical and numerical solution on the  $\epsilon$  parameter in hyperbolic and pseudo-hyperbolic problems with inverse coefficients**  
 Yernazar A., ASLAN E., BAĞLAN İ.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS,  
vol.73, no.4, pp.1171-1196, 2024 (ESCI)

- III. **The Heat Problem with Non-Local Boundary Conditions**  
BAĞLAN İ.  
Natural and Applied Sciences Journal, vol.7, no.2, pp.61-68, 2024 (Peer-Reviewed Journal)
- IV. **Fourier Method For an Existence of Quasilinear Inverse Pseudo-Parabolic Equation**  
BAĞLAN İ., Kanca F., Mishra V. N.  
IRANIAN JOURNAL OF MATHEMATICAL SCIENCES AND INFORMATICS, vol.19, no.1, pp.193-209, 2024 (ESCI)
- V. **Analytical and Numerical Investigation of Two-Dimensional Heat Transfer with Periodic Boundary Conditions**  
BAĞLAN İ., ASLAN E.  
Computation, vol.12, no.1, 2024 (ESCI)
- VI. **Analysis of Inverse Coefficient Problem for Euler-Bernoulli Equation with Periodic and Integral Conditions**  
Bağlan İ.  
Natural and Applied Sciences Journal, vol.7, no.2, pp.15-25, 2023 (Peer-Reviewed Journal)
- VII. **Stability of Solution of Quasilinear Parabolic Two-Dimensional with Inverse Coefficient by Fourier Method**  
Bağlan İ.  
Natural & applied sciences journal, vol.6, no.1, pp.9-20, 2023 (Peer-Reviewed Journal)
- VIII. **Optimization with Taguchi Method of Laser Parameters Necessary for Smooth Groove Bottom in ZAMAK 5**  
Canel T., Bağlan İ.  
Kafkas Üniversitesi Fen Bilimleri Enstitüsü Dergisi / Institute of Natural and Applied Science Journal, vol.15, no.2, pp.60-64, 2023 (Peer-Reviewed Journal)
- IX. **Analysis of Inverse Euler-Bernoulli Equation with periodic boundary conditions**  
BAĞLAN İ., CANEL T.  
Turkish Journal of Science, vol.7, no.3, pp.146-156, 2022 (Peer-Reviewed Journal)
- X. **Solution of Parabolic Problem with Inverse Coefficient  $s(t)$  with Periodic and Integral Conditions**  
BAĞLAN İ.  
Kocaeli Journal of Science and Engineering, vol.5, pp.1-9, 2022 (Peer-Reviewed Journal)
- XI. **Timur Canel- İrem Bağlan, " Optimization with Taguchi Method of Laser Parameters Necessary for Smooth Groove Bottom in ZAMAK 5**  
Bağlan İ.  
Kafkas Üniversitesi Fen Bilimleri Dergisi, vol.15, no.2, pp.12-22, 2022 (Peer-Reviewed Journal)
- XII. **Solution of Inverse Euler-Bernoulli Problem with Integral Overdetermination and Periodic Boundary Conditions**  
BAĞLAN İ., Kanca F., Mishra V. N.  
IRANIAN JOURNAL OF MATHEMATICAL SCIENCES AND INFORMATICS, vol.17, no.1, pp.191-206, 2022 (ESCI)
- XIII. **Mathematical Modeling of the Shape of Cavity Created with Laser Using Melting, Boiling Temperature.**  
CANEL T., BAĞLAN İ.  
Turkish Journal of Science, vol.6, no.3, pp.162-166, 2021 (Peer-Reviewed Journal)
- XIV. **Continuous Dependence on Data for a Solution of Higher Order Quasi-Linear Parabolic Equation Using Fourier Method**  
BAĞLAN İ., CANEL T.  
Eastern Anatolian Journal, vol.7, no.2, pp.35-41, 2021 (Peer-Reviewed Journal)
- XV. **Fourier Method for Higher Order Quasi-Linear Parabolic Equation Subject with Periodic Boundary Conditions**  
BAĞLAN İ., CANEL T.  
Turkish Journal of Science, vol.6, no.2, pp.110-121, 2021 (Peer-Reviewed Journal)

- XVI. **Mathematical Modeling of the Effect of CO<sub>2</sub> Laser Power on Texture Size on Polyoxmethylen (POM) Sheet**  
Canel T., Bağlan İ.  
Turkish Journal of Science, vol.5, no.3, pp.252-256, 2020 (Peer-Reviewed Journal)
- XVII. **An inverse coefficient problem for quasilinear pseudo-parabolic of heat conduction of Poly(methyl methacrylate) (PMMA)**  
Bağlan İ., Canel T.  
Turkish Journal of Science, vol.5, no.3, pp.199-207, 2020 (Peer-Reviewed Journal)
- XVIII. **Mathematical Modeling of the Effect of CO<sub>2</sub> Laser Parameter on Shape and Geometry of Polymer Plate**  
Canel T., Bağlan İ.  
Turkish Journal of Science, vol.5, no.3, pp.257-261, 2020 (Peer-Reviewed Journal)
- XIX. **Mathematical Modeling of the Eect of CO<sub>2</sub> Laser Power on TextureSize on Polyoxmethylen (POM) Sheet**  
CANEL T., BAĞLAN İ.  
TURKISH JOURNAL OF SCIENCE, vol.5, no.3, pp.252-256, 2020 (Peer-Reviewed Journal)
- XX. **Continuous Dependence on Data for a Solution of determination of an unknown source of Heat Conduction of Poly(methyl methacrylate) (PMMA)**  
Bağlan İ., Canel T.  
Turkish Journal of Science, vol.5, no.3, pp.214-219, 2020 (Peer-Reviewed Journal)
- XXI. **FOURIER METHOD FOR THE INVERSE COEFFICIENT OF THE PSEUDO-PARABOLIC EQUATION WITH NON-LOCAL BOUNDARY CONDITION**  
Bağlan İ.  
TWMS J. App. and Eng. Math. , vol.10, no.4, pp.857-865, 2020 (Peer-Reviewed Journal)
- XXII. **ANALYSIS OF TWO-DIMENSIONAL NON-LINEAR BURGERS'xx EQUATIONS**  
BAĞLAN İ.  
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.9, pp.38-48, 2019 (Scopus)
- XXIII. **Fourier method for inverse problem coefficient euler-bernoulli beam equation**  
BAĞLAN İ.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.1, pp.514-527, 2019 (Peer-Reviewed Journal)
- XXIV. **ANALYSIS OF TWO-DIMENSIONAL NON-LINEAR BURGERS' EQUATIONS**  
BAĞLAN İ.  
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.9, no.1, pp.38-48, 2019 (ESCI)
- XXV. **MATHEMATICAL MODELING OF THE DEPENDENCE OF HEAT DISTRIBUTION ON DIRECTION IN SURFACE TEXTURING OF CONTINUOUS CARBON FIBRE REINFORCED EPOXY COMPOSITES BY ND.YAG LASER**  
CANEL T., BAĞLAN İ.  
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.9, no.1, pp.49-57, 2019 (ESCI)
- XXVI. **Analysis of inverse parabolic problem with nonlocal boundary condition**  
BAĞLAN İ., KANCA F.  
journal of abstract and computational mathematics, vol.3, pp.51-62, 2018 (Peer-Reviewed Journal)
- XXVII. **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, vol.67, pp.328-334, 2018 (Peer-Reviewed Journal)
- XXVIII. **A geometric modeling of 2-dimensional parabolic problem with periodic boundary condition**  
KANCA F., BAĞLAN İ., ÖZTÜRK G.  
Malaya Journal of Matematik, vol.6, pp.286-290, 2018 (Peer-Reviewed Journal)
- XXIX. **Solution of two-dimensional non-linear Burgers' equations with nonlocal boundary condition**  
BAĞLAN İ., KANCA F.

Malaya Journal of Matematik, vol.5, pp.675-679, 2017 (Peer-Reviewed Journal)

- XXX. **Identifying an unknown time dependent coefficient for quasilinear parabolic equations**  
KANCA F., BAĞLAN İ.  
New Trends in Mathematical Science, vol.4, pp.116-128, 2016 (Peer-Reviewed Journal)
- XXXI. **Generalized and numerical solution for a quasilinear parabolic equation with nonlocal conditions**  
Kanca F., BAĞLAN İ.  
STUDIA UNIVERSITATIS BABES-BOLYAI MATHEMATICA, vol.60, no.4, pp.567-581, 2015 (ESCI)
- XXXII. **The Continuous Dependence and Numerical Approximation of the Solution of the Quasilinear Pseudo-Parabolic Problem with Periodic Boundary Condition**  
BAĞLAN İ., kanca f.  
Journal of Advances in Mathematics, vol.5, no.3, pp.12-25, 2014 (Peer-Reviewed Journal)
- XXXIII. **"Fourier Method for a Pseudo-Quasilinear Parabolic Problem with Periodic Boundary Condition",**  
Bağlan İ.  
International Journal of Pure and Applied Mathematics, vol.52, pp.717-729, 2009 (Peer-Reviewed Journal)
- XXXIV. **Dependency of the solution of quasilinear pseudo-parabolic equation with periodic boundary condition on Epsilon**  
BAĞLAN İ., halilov H.  
International Journal of Math. Analysis, vol.2, no.18, pp.881-888, 2008 (Peer-Reviewed Journal)

### **Papers Published in Refereed Scientific Meetings**

- I. **Analysis of Inverse Coefficient Non-Linear Pseudo-Hyperbolic Equation with Periodic Boundary Condition**  
Bağlan İ., Yernezar A., Aslan E.  
Kocaeli Science Congress, Kocaeli, Turkey, 2 - 04 October 2024, pp.32-40
- II. **Inverse Coefficient Analysis in Semi-Linear Parabolic Heat Conduction Models**  
Bağlan İ., Yernezar A.  
Kocaeli Science Congress, Kocaeli, Turkey, 2 - 04 October 2024, pp.15-25
- III. **Equation containing fractional derivative and periodic boundary conditions**  
Bağlan İ., Turhan Ş.  
Kocaeli Science Congress, Kocaeli, Turkey, 2 - 04 October 2024, pp.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, Turkey, 2 - 04 October 2024, pp.5-10
- V. **Analytical and Computational Solutions for Nonlinear Hyperbolic Equation with Inverse Coefficient under Periodic Boundary Conditions**  
Yernazar A., BAĞLAN İ., ASLAN E.  
Kocaeli Science Congress, Kocaeli, Turkey, 2 - 04 October 2024, pp.42-48
- VI. **Analysis of Inverse Coefficient Non-Linear Pseudo-Hyperbolic Equation with Periodic Boundary Condition**  
Yernazar A., BAĞLAN İ., ASLAN E.  
Kocaeli Science Congress, Kocaeli, Turkey, 2 - 04 October 2024, pp.64-68
- VII. **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, Germany, 4 - 08 September 2023, pp.207-216
- VIII. **CFD Analysis for Heat Distribution on Polycarbonate Plate**  
Karabaş M. O., Bağlan İ., Canel T.  
6th INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Antalya, Turkey, 2 - 05 November

2023, vol.1, no.1, pp.77

- IX. **Optimization of Depth and Width Size of Dimple's Heat Affected Zone Created by CO2 Laser on Polyamide Plate**  
Canel T., Bađlan İ., Ürgün S.  
6th INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Antalya, Turkey, 2 November - 05 December 2023, vol.1, no.1, pp.11
- X. **Numerical investigation of Quasi-linear Hyperbolic Equation with Periodic Boundary Condition**  
Bađlan İ., Yernezar A.  
ICOLES,2023, Antalya, Turkey, 2 - 04 November 2023, pp.18
- XI. **Solution of Fourier Method Inverse Coefficient Non Linear Hyperbolic Equation with Periodic Boundary Condition**  
Bađlan İ., Yernezar A.  
ICOLES,2023, Antalya, Turkey, 2 - 04 November 2023, pp.17
- XII. **Investigation of an inverse coefficient problem for semi-linear parabolic heat conduction**  
Bađlan İ., Canel T.  
ICOLES,2023, Antalya, Turkey, 2 - 04 November 2023, pp.15
- XIII. **Mathematical Modelling of Boundary of Dimple Created on ZAMAK 5 plate with Nd:YAG Laser**  
CANEL T., BAĐLAN İ.  
icoles,2022, Antalya, Turkey, 19 May 2022
- XIV. **Solution of Higher Order Quasi-Linear Parabolic Equation Subject to Periodic Boundary Using Fourier Method**  
Bađlan İ., Canel T.  
Icoles 2022, Antalya, Turkey, 19 - 22 May 2022, pp.220-228
- XV. **Solution of Two Dimension Quasi-Linear Parabolic Equation with Inverse Coefficient**  
BAĐLAN İ., CANEL T.  
icoles,2022, Antalya, Turkey, 19 May 2022
- XVI. **Investigation of the Effects of CO2 Laser Parameters on the Geometry of the Grooves Formed on the Transparent Polycarbonate (PC) Surface**  
CANEL T., BAĐLAN İ.  
icoles,2022, Antalya, Turkey, 19 May 2022
- XVII. **Optimization of Laser Machining Parameters with Taguchi L9 Orthogonal Array**  
CANEL T., BAĐLAN İ.  
icoles,2022, Antalya, Turkey, 19 May 2022
- XVIII. **Solution of Higher Order Quasi-Linear Parabolic Equation Subject to Periodic Boundary Conditions Using Fourier Method**  
BAĐLAN İ., CANEL T.  
icmrs,2021, Turkey, 22 October 2021
- XIX. **Mathematical Modeling of the Width of Grooves Created with Laser Beam on Dual-Phase Steel Surface**  
BAĐLAN İ., CANEL T.  
icmrs,2021, Turkey, 22 October 2021
- XX. **Fourier Method for Inverse Coefficient Quasilinear Higher Order Equation**  
BAĐLAN İ.  
icoles,2021, Turkey, 22 October 2021
- XXI. **Fourier Methods for Determination of An Unknown Heat Source Poly(Methyl Methacrylate) (PMMA) with Periodic Boundary Conditions**  
BAĐLAN İ., CANEL T.  
3rd INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES:CURRENT TRENDS AND DEVELOPMENTSICMRS 2020, ONLINE MEETING, Turkey, 20 - 22 November 2020
- XXII. **Analysis for the Inverse Coefficient of the Pseudo-Parabolic Equation with non-Local Boundary Condition**

BAĞLAN İ., CANEL T.

ICOLES 2019 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, İstanbul, Turkey, 27 - 29 June 2019, vol.1, no.1, pp.155-163

- XXIII. **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.  
2 ND INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Antalya, Turkey, 27 - 30 April 2019, vol.1, no.1, pp.119-124
- XXIV. **The Stability of Solution for Pseudo-Quasilinear Euler Bernoulli Mixed Problem**  
BAĞLAN İ.  
INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Girne, Cyprus (Kkct), 2 - 06 September 2018
- XXV. **Solution of Inverse Euler-Bernoulli Problem with Integral Overdetermination Condition**  
BAĞLAN İ.  
INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Girne, Cyprus (Kkct), 2 - 06 September 2018
- XXVI. **Continuous dependence on data for a solution of fourth order EulerBernoulli quasilinear equation with periodic boundary condition**  
BAĞLAN İ.  
ICOLES, Girne, Cyprus (Kkct), 2 - 06 September 2018
- XXVII. **Fourier Method for Inverse Coefficient Euler-Bernoulli Beam Equation**  
BAĞLAN İ.  
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 26 - 29 June 2018
- XXVIII. **Mathematical Modeling of Ablation of Carbon Fiber Reinforced Plastics by Laser**  
CANEL T., BAĞLAN İ.  
ICMME-2018 International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 June 2018, pp.614
- XXIX. **Mathematical Modeling of Ablation of Carbon Fiber Reinforced Plastics by Lase**  
BAĞLAN İ., CANEL T.  
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 26 - 29 June 2018
- XXX. **Solution of a boundary value problem in heat conduction with a periodic boundary condition**  
BAĞLAN İ.  
ICMRS, Antalya, Turkey, 28 April - 02 May 2018
- XXXI. **Determination of an Unknown coefficient for euler bernoulli equation**  
BAĞLAN İ., KANCA F.  
ICMRS, Antalya, Turkey, 28 April - 02 May 2018
- XXXII. **Inverse Problem for Euler-Bernoulli Equation with Periodic Boundary Condition**  
KANCA F., BAĞLAN İ.  
International Conference on Applied Analysis and Mathematical Modeling, 4 - 07 July 2017
- XXXIII. **Determination of Parameter for Euler-Bernoulli Equation with Periodic Boundary Condition**  
KANCA F., BAĞLAN İ.  
International Conference on Mathematics and Engineering (ICOME), 10 - 12 May 2017
- XXXIV. **Two-dimensional Inverse Quasilinear Parabolic Problem with Periodic Boundary Condition**  
BAĞLAN İ., KANCA F.  
International Conference on Mathematics and Engineering (ICOME), 10 - 12 May 2017
- XXXV. **A Geometric Modeling of the Solution of Two Dimensional Parabolic Equation**  
BAĞLAN İ., KANCA F., ÖZTÜRK G.  
International Conference on Mathematics and Engineering(ICOME 2017), 10 - 12 May 2017
- XXXVI. **Determination of an Unknown Heat Source from Integral Overdetermination Condition for Quasilinear Parabolic Equation**  
BAĞLAN İ., kanca f.



INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Saraybosna, Serbia And Montenegro, 15 August 2016, pp.54-67

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

BAĞLAN İ., kanca f.

International Conference Applied Analysis and Mathemaical Modelling, İstanbul, Turkey, 24 July 2013, pp.5-6

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

BAĞLAN İ., kanca f.

XXVI. Matematik Sempozyumu, DİYARBAKIR, Diyarbakır, Turkey, 01 September 2012, pp.2

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

BAĞLAN İ., kanca f.

The International Congress in Honour of Professor Hari M.Srivasa, Bursa, Turkey, 15 June 2012, pp.3

**XL. Numerical Solution of a Quasilinear Parabolic Equation with Periodic Boundary Condition**

BAĞLAN İ.

International Symposium on Computing in Science-Engineering, Aydın, Turkey, 15 June 2011, pp.1-2

**XLI. Yarı Doğrusal Pseudo-Parabolik Denklem için Devirli Sınır Koşullu Problemin Çözümünün Epsilon Bağıllığı**

BAĞLAN İ., halilov H.

II. Türk Dünyası Matematik Sempozyumu, Sakarya, Turkey, 04 July 2007, pp.3

**XLII. Orta Çağın Büyük Türk Bilginleri**

BAĞLAN İ., halilov H.

II. Türk Dünyası Matematik Sempozyumu, Sakarya, Turkey, 04 July 2007, pp.4

**XLIII. Devirli Sınır Koşullu Yarı Doğrusal Pseudo-Parabolik Denklem için Fourier Metodu"**

BAĞLAN İ., halilov H.

II. Türk Dünyası Matematik Sempozyumu, Sakarya, Turkey, 04 July 2007, pp.2

**XLIV. Değişken Katsayılı Fouier Serileri Yardımı ile Yarı Doğrusal Parabolik Denklem için Devirli Sınır Koşullu Karışık Problemin Analizi**

BAĞLAN İ., halilov H.

XIV. Türk Matematik Derneği Sempozyumu, Kütahya, Turkey, 28 August 2006, pp.1

## Supported Projects

BAĞLAN İ., Project Supported by Higher Education Institutions, YÜKSEK MERTEBEDEN PERİYODİK SINIR KOŞULU YARI LİNEER PARABOLİK DENKLEM İÇİN FOUER METODU, 2019 - 2021

## Activities in Scientific Journals

ICOLES 2022 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Editor, 2022 - 2022

ICOLES 2021 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Editor, 2021 - 2021

ICOLES 2020 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Editor, 2020 - 2020

ICOLES 2019 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Editor, 2019 - 2019

ICOLES 2018 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Editor, 2018 - 2018

## Peer Reviews in Scientific Publications

Sakarya University Journal of Science , Other Indexed Journal, September 2023

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, Other Indexed Journal, September 2021  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, September 2020  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, June 2020  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, April 2020  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, February 2020  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, January 2020  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, November 2019  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, July 2019  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, May 2019  
Journal of Computational and Applied Mathematics, SCI Journal, January 2019  
Cumhuriyet Science Journal , National Scientific Refreed Journal, December 2018  
Journal of Computational and Applied Mathematics, SCI Journal, September 2018  
Journal of Computational and Applied Mathematics, SCI Journal, June 2018  
Appl. Math. Inf. Sci., Other Indexed Journal, June 2018  
Journal of Computational and Applied Mathematics, SCI Journal, May 2018  
Journal of Computational and Applied Mathematics, SCI Journal, April 2018  
Journal of Abstract and Computational Mathematics, Other Indexed Journal, April 2018  
Journal of Computational and Applied Mathematics, SCI Journal, November 2017  
Journal of Computational and Applied Mathematics, SCI Journal, September 2017  
Journal of Computational and Applied Mathematics, SCI Journal, June 2017  
Journal of Mathematical Finance, Other Indexed Journal, April 2017  
Journal of Computational and Applied Mathematics, SCI Journal, April 2017  
Applicable Analysis, SCI Journal, April 2017  
Journal of Computational and Applied Mathematics, SCI Journal, March 2017  
Journal of Computational and Applied Mathematics, SCI Journal, March 2017  
Journal of Computational and Applied Mathematics, SCI Journal, February 2017  
Journal of Computational and Applied Mathematics, SCI Journal, January 2017  
Journal of Computational and Applied Mathematics, SCI Journal, December 2016  
Hacettepe Journal of Mathematics and Statistics, SCI Journal, November 2016  
"New Trends in Mathematical Sciences", Other Indexed Journal, September 2016  
Hacettepe Journal of Mathematics and Statistics, SCI Journal, May 2016  
"New Trends in Mathematical Sciences", Other Indexed Journal, April 2016  
Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, April 2016  
Journal of Computational and Applied Mathematics, SCI Journal, February 2016  
Hacettepe Journal of Mathematics and Statistics, SCI Journal, February 2016  
Open Mathematics, SCI Journal, January 2016  
Applied Mathematics and Computation, SCI Journal, May 2015  
Journal of Applied Mathematics & Information Sciences,, Other Indexed Journal, March 2015  
Boundary Value Problems, SCI Journal, January 2015  
Boundary Value Problems, SCI Journal, May 2014

## **Tasks In Event Organizations**

Bağlan İ., ICMRS 2022 4TH INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Scientific Congress, Turkey, Ekim 2022  
Bağlan İ., ICOLES 2022 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, Turkey, Mayıs 2022  
Bağlan İ., 5 TH INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, Turkey, Mayıs 2022  
Bağlan İ., ICMRS 2021 4TH INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Scientific

Congress, Turkey, Ekim 2021

Canel T., BAĞLAN İ., 4TH INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, İstanbul, Turkey, Eylül 2021

Bağlan İ., ICOLES 2021 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, Turkey, Eylül 2021

Bağlan İ., ICMRS 2020 3TH INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Scientific Congress, Turkey, Kasım 2020

Bağlan İ., ICOLES 2020 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, Turkey, Kasım 2020

Bağlan İ., 3 TH INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, Turkey, Eylül 2020

Canel T., BAĞLAN İ., ICOLES 2019 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, İstanbul, Turkey, Aralık 2019

Bağlan İ., ICMRS 2019 2TH INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Scientific Congress, Turkey, Ekim 2019

Bağlan İ., 2 TH INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, Turkey, Haziran 2019

Bağlan İ., 1 TH INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, Turkey, Eylül 2018

Canel T., BAĞLAN İ., ICOLES 2018 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Scientific Congress, İstanbul, Turkey, Eylül 2018

## **Metrics**

Publication: 114

Citation (WoS): 75

Citation (Scopus): 82

H-Index (WoS): 6

H-Index (Scopus): 6

## **Non Academic Experience**

köseköy fürsan ilköğretim okulu, öğretmen