

## **Prof.Dr. ZAHİR MURADOĞLU**

### **Kişisel Bilgiler**

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### **Uluslararası Araştırmacı ID'leri**

**ORCID:** 0000-0002-4492-9693

**Yoksis Araştırmacı ID:** 33230

### **Eğitim Bilgileri**

Doktora, Azerbaycan Bilimler Akademisi, Sibernetik Enstitüsü, Azerbaycan 1985 - 1990

Lisans, Azerbaycan Devlet Üniversitesi, Mekanik-Matematik, Azerbaycan 1976 - 1981

### **Yabancı Diller**

Rusça, B2 Orta Üstü

### **Yaptığı Tezler**

Doktora, Belirsiz Sınırlı Elasto - plastik problemlerin Sayısal Çözümü, Azerbaycan Bilimler Akademisi, Sibernetik Enstitüsü, 1990

### **Araştırma Alanları**

Matematik, Sayısal Analiz, Temel Bilimler

### **Akademik Unvanlar / Görevler**

Prof.Dr., Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2008 - Devam Ediyor

Doç.Dr., Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 1994 - 2008

Doç.Dr., Azerbaycan Devlet İktisat Üniversitesi, -, Bilimsel Araştırma Laboratuari, 1993 - 1994

Uzman, Azerbaycan Devlet Üniversitesi, Mekanik-Matematik, Matematik, 1985 - 1990

### **Akademik İdari Deneyim**

Anabilim/Bilim Dalı Başkanı, Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2011 - 2020

### **Verdiği Dersler**

Sonlu Elemanlar Teorisi II, Doktora, 2022 - 2023

Uygulamalı Matematik, Lisans, 2023 - 2024

Lineer Cebir, Lisans, 2022 - 2023

Matematik Modelleme, Lisans, 2022 - 2023

Matematik Tarihi, Lisans, 2023 - 2024

Nümerik Analiz II, Lisans, 2022 - 2023

Nümerik Analiz I, Lisans, 2023 - 2024

## Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Kocaeli Üniversitesi, Aralık, 2023

Akademik Kadroya Atama-Profesörlük, Akademik Kadroya Atama-Profesörlük, Kocaeli Üniversitesi, Kasım, 2023

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

- I. Determining the Geometrical Sizes of Plates with Internal Hinges by Using Additional Conditions  
Yazıcı V., MURADOĞLU Z.  
ADVANCES IN MATHEMATICAL PHYSICS, cilt.2020, 2020 (SCI-Expanded)
- II. A Mathematical Model and Numerical Solution of a Boundary Value Problem for a Multi-Structure Plate  
Yazıcı V., MURADOĞLU Z.  
MATHEMATICS, cilt.7, sa.3, 2019 (SCI-Expanded)
- III. Simultaneous determination of the strain hardening exponent, the shear modulus and the elastic stress limit in an inverse problem  
Tatar S., Tinaztepe R., MURADOĞLU Z.  
APPLIED MATHEMATICAL MODELLING, cilt.40, ss.6956-6968, 2016 (SCI-Expanded)
- IV. Numerical solution of the nonlinear evolutional inverse problem related to elastoplastic torsional problem  
Tatar S., MURADOĞLU Z.  
APPLICABLE ANALYSIS, cilt.93, sa.6, ss.1187-1200, 2014 (SCI-Expanded)
- V. A modification of the semi-analytic inversion method: determination of the yield stress and a comparison with the parametrization algorithm  
Tatar S., MURADOĞLU Z.  
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, cilt.22, sa.4, ss.543-556, 2014 (SCI-Expanded)
- VI. Fast inversion algorithm for identification of elastoplastic properties of power hardening materials from limited spherical indentation tests  
Hasanov A., MURADOĞLU Z.  
INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, cilt.47, sa.5, ss.526-536, 2012 (SCI-Expanded)

## Düzen Dergilerde Yayınlanan Makaleler

- I. ON THE SOLUTION OF THE HOMOGENEOUS LINEAR CONJUGATION PROBLEM WITH SINGULARITIES OF NONINTEGER ORDER  
Urbanovich T., MURADOĞLU Z.  
ADVANCES IN DIFFERENTIAL EQUATIONS AND CONTROL PROCESSES, cilt.19, sa.2, ss.127-138, 2018 (ESCI)
- II. Determination of Young'xxs Modulus by Using Initial Data for Different Boundary Conditions  
İLHAN F., MURADOĞLU Z.  
Applied Mathematical Sciences, cilt.11, sa.19, ss.913-923, 2017 (Hakemli Dergi)

- III. Numerical solution of non linear biharmonic equation for elasto plastic bending plate  
İLHAN F., MURADOĞLU Z.  
Applied Mathematical Sciences, cilt.9, sa.146, ss.7269-7280, 2015 (Hakemli Dergi)
- IV. Finite Difference Schemes Obtained by Finite Element Method for Lame System of Equations  
Seyidmamedov Z.  
Journal of Kocaeli University, sa.3, ss.41-50, 1996 (Hakemsiz Dergi)
- V. FE Solution of an Axisymmetric Inverse Elasto Plastic Problem Using Penetration Diagram  
SEYİDMAMEDOV Z.  
Journal of Kocaeli University, sa.1, ss.7-14, 1994 (Hakemsiz Dergi)
- VI. Numerical solution of quasistatistical elostoplastic contact problem with unknown boundary  
SEYİDMAMEDOV Z.  
Soviyet VINITI, sa.1, ss.1-18, 1989 (Hakemsiz Dergi)
- VII. Axisymmetric elastoplastic signorini problem and the numerical method for determining a hardness of materials  
SEYİDMAMEDOV Z.  
Soviyet VINITI, ss.1-20, 1989 (Hakemsiz Dergi)
- VIII. On the method of iteration for solving of elastoplastic contact problems  
HASANOĞLU A., Seyidmamedov Z.  
"Numerical Methods of Analysis", sa.1, ss.17-22, 1988 (Hakemsiz Dergi)
- IX. On an algorithms of numerical solution of nonlinear contact problems by program package DRIV SOLV03  
SEYİDMAMEDOV Z., HASANOĞLU A.  
"Approximate Methods for Operator Equations", ss.24-34, 1986 (Hakemsiz Dergi)

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. DETERMINATION INTERLAYER TRANSMISSION CONDITIONSFOR MULTILAYERED MATERIALS BY USING BIQUADRATICFINITE ELEMENTS  
MURADOĞLU Z., URBANOVICH T., YAZICI V.  
5th International Congress on Fundamental and Applied Sciences 2018 (ICFAS2018), 18 - 22 Haziran 2018
- II. DETERMINING THE SIZES OF PLATES IN THE PLATESSYSTEM BY USING ADDITIONAL CONDITIONS  
YAZICI V., MURADOĞLU Z.  
9th International Symposium on Image Processing, Wavelet and Applications, 5 - 08 Kasım 2017, ss.52
- III. NUMERICAL ANALYSIS OF FRICTIONLESS CONTACT PROBLEM FOR A LAMINATED MEDIUM  
MURADOĞLU Z.  
9th International Symposium on Image Processing, Wavelet and Applications, 5 - 08 Kasım 2017, ss.47
- IV. NUMERICAL APPROXIMATION OF TRANSMISSION CONDITIONS FOR BIHARMONIC EQUATION WITH DISCONTINUOUS COEFFICIENT ON NON-UNIFORM MESH  
YAZICI V., MURADOĞLU Z.  
9th International Symposium on Image Processing, Wavelet and Applications, 5 - 08 Kasım 2017, ss.53
- V. Numerical Solution of the Non-Linear Biharmonic Equation forDifferent Boundary Conditions  
MURADOĞLU Z.  
VIII Annual International Conference ofthe Georgian Mathematical Union, 4 - 08 Eylül 2017, ss.137
- VI. A study for decision making problems by using interval soft sets  
MURADOĞLU Z., GÜNDÜZ Ç.  
International scientific conference«Algebraic and geometric methodsof analysis», 31 Mayıs - 05 Haziran 2017
- VII. Transmission Conditions for Plates System Composed of Elastic Plates with Differing Properties  
MURADOĞLU Z., YAZICI V.  
INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING, Türkiye, 10 - 12 Mayıs 2017
- VIII. Elasto plastic deformation of an incompressible bendingplate with clamped boundary

- İLHAN F., MURADOĞLU Z.  
International Congress on Fundamental and Applied Sciences 2016 (ICFAS2016), 22 - 26 Ağustos 2016, ss.69
- IX. **Obtaining Transmission Conditions For Fourth order Ordinary Differential Equations With Discontinuous Coefficients**  
YAZICI V., MURADOĞLU Z.  
8th International Conference on Image Processing, Wavelet and Applications, 22 - 24 Eylül 2016, ss.72
- X. **Determination of an unknown elastic modulus in an elastoplastic bending plate based on maximal deflection**  
İLHAN F., MURADOĞLU Z.  
8th International Conference "Inverse Problems: Modeling and Simulation", 23 - 28 Mayıs 2016
- XI. **On Elasto plastic Deformation of a Bending Plate with Simply Supported Boundary**  
İLHAN F., MURADOĞLU Z.  
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Türkiye, 8 - 12 Haziran 2015, ss.118
- XII. **Numerical Solution Of Inverse Coefficient Problem For Nonlinear Biharmonic Equation**  
MURADOĞLU Z., İLHAN F.  
The 7th International Conference "Inverse Problems: Modeling and Simulation" (IPMS-2014), Fethiye, 26 - 30 Mayıs 2014, ss.47
- XIII. **The Numerical Solution of the Problem Related to Bending of Beams System Which is Consisted of Thin Beams with Different Properties**  
Yazıcı V., MURADOĞLU Z.  
International Conference on Mathematical Analysis, Differential Equations and Their Applications, Mersin, Türkiye, 4 - 09 Eylül 2012, ss.109
- XIV. **Numerical Solution to the Bending Problem for Nonhomogeneous Plate with Different Boundary Conditions**  
MURADOĞLU Z., İLHAN F.  
International Conference on Mathematical Analysis, Differential Equations and Their Applications, Mersin, Türkiye, 4 - 09 Eylül 2012, ss.78-79
- XV. **The numerical solution of an optimal control problem related to the transmission bending problem for an elastic plate**  
MURADOĞLU Z., Yazıcı V.  
5th International Conference "Inverse Problems: Modeling and Simulation", Antalya, Türkiye, 24 - 29 Mayıs 2010
- XVI. **Nonlocal Identification Problem in Nonlinear Ion Transport**  
HASANOĞLU A., MURADOĞLU Z.  
The Fourth International Conference "Inverse Problems : Modeling and Simulation", Fethiye, Türkiye, 26 - 30 Mayıs 2008, ss.64-65
- XVII. **The Mathematical Model and Numerical Solution of the Transmission Problem in a Layered Medium for the Case of Isolation**  
MURADOĞLU Z., ÖZBİLGE KAHVECİ E.  
International Conference Pioneers Of Bulgarian Mathematics, Sofija, Bulgaristan, 8 - 10 Temmuz 2006
- XVIII. **An Inversion Method for Identification of Elastoplastic Properties for Engineering Materials from Limited Spherical Indentation Measurements**  
MURADOĞLU Z., HASANOĞLU A.  
International Conference Tikhonov and Contemporary Mathematics, Moskva, Rusya, 19 - 25 Temmuz 2006
- XIX. **The Mathematical Model of Interface Problems Without Isolation and Behaviour of Numerical Solution**  
ÖZBİLGE KAHVECİ E., MURADOĞLU Z.  
International Conference on Modelling and Simulation (MS'06 Turkey), Konya, Türkiye, 28 - 30 Ağustos 2006
- XX. **State discretization step as a regularization parameter in inverse elastoplastic problems**  
Seyidmamedov Z.  
The International Conference " Inverse Problems : Modeling and Simulation, Fethiye, 7 - 12 Haziran 2004, ss.72-73

- XXI. Modeling of Come off Effects for Deformable Layers Under Indentation**  
Seyidmamedov Z.  
The First International Conference on Nonlinear Analysis and Nonlinear Modeling, Fethiye, 17 - 22 Temmuz 2001, ss.261-269
- XXII. Reconstruction of The Coefficient of Sturm Liouville Equation by Boundary Measurements**  
Seyismamedov Z.  
Int. Workshop on Nonlinear and Improperly Posed Problems, Kocaeli, Türkiye, 17 - 22 Ağustos 1998, ss.67-71
- XXIII. Malzemenin Elasto plastik Özelliklerinin Bulunması İle Bağlı Ters Problemin Sayısal Çözümü**  
Seyidmamedov Z.  
7. Denizli Malzeme Sempozyumu, Denizli, Türkiye, 2 - 04 Nisan 1997, ss.459-464
- XXIV. Numerical Solution of an Inverse Problem Related To Diagnostics of Materials**  
Seyidmamedov Z.  
Türk Matematik Derneği, VIII. Ulusal Matematik Sempozyumu, Adana, Türkiye, 21 - 23 Eylül 1995, ss.68-71

## **Desteklenen Projeler**

MURADOĞLU Z., Yükseköğretim Kurumları Destekli Proje, Elastik Levhalar Sisteminin Eğilmesi İle İlgili Lineer Olmayan Biharmonik Denklem İçin Optimal Kontrol Probleminin Sayısal Çözümü, 2011 - 2014

## **Bilimsel Hakemlikler**

JOURNAL OF INVERSE AND ILL-POSED PROBLEMS, SCI Kapsamındaki Dergi, Nisan 2023  
CUMHURIYET SCIENCE JOURNAL, Hakemli Bilimsel Dergi, Nisan 2023

## **Metrikler**

Yayın: 39  
Atıf (WoS): 16  
Atıf (Scopus): 20  
H-İndeks (WoS): 3  
H-İndeks (Scopus): 3

## **Akademi Dışı Deneyim**

Kocaeli Üniversitesi  
Kocaeli Üniversitesi  
Kocaeli Üniversitesi  
Azerbaycan Eğitim Bakanlığı  
Azerbaycan Eğitim Bakanlığı  
Azerbaycan Bilimler Akademisi  
Azerbaycan İstatistik Bakanlığı