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Publons / Web Of Science ResearcherID: AAD-3916-2020

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Öğrenim Bilgisi

Post Doktora
2012 - 2012

The University of Leeds, Birleşik Krallık

Doktora
2005 - 2010

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye

Yabancı Diller

İngilizce, B2 Orta Üstü

Akademik Unvanlar / Görevler

Yrd.Doç.Dr.
2012 - 2012

University of Leeds, Mathematics And Physical Sciences, Applied Mathematics

Yrd.Doç.Dr.
2011 - 2012

Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik

Uzman
2003 - 2011

Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. An Inverse Problem in Estimating the Time Dependent Source Term and Initial Temperature Simultaneously by the Polynomial Regression and Conjugate Gradient Method
Coskun A.
FILOMAT, cilt.34, sa.10, ss.3507-3516, 2020 (SCI-Expanded)
2. The Use of Soft Matrices on Soft Multisets and their Applications in Optimal Decision Process
Coskun A., Aras Ç., Sonmez A.
FILOMAT, cilt.32, sa.3, ss.1055-1067, 2018 (SCI-Expanded)

3. A numerical method based on the polynomial regression for the inverse diffusion problem
Erdem A.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.92, sa.9, ss.1883-1894, 2015 (SCI-Expanded)
4. A simultaneous approach to inverse source problem by Green's function
Erdem A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.38, sa.7, ss.1393-1404, 2015 (SCI-Expanded)
5. Simultaneous reconstruction of the source term and the surface heat transfer coefficient
Kaya M., Erdem A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.38, sa.3, ss.517-526, 2015 (SCI-Expanded)
6. An adaptive algorithm for determination of source terms in a linear parabolic problem
Erdem A.
JOURNAL OF INVERSE AND ILL-POSED PROBLEMS, cilt.22, sa.4, ss.569-592, 2014 (SCI-Expanded)
7. Identification of a spacewise dependent heat source
ERDEM A., Lesnic D., Hasanov A.
APPLIED MATHEMATICAL MODELLING, cilt.37, sa.24, ss.10231-10244, 2013 (SCI-Expanded)
8. Stability for determining the principal coefficient of parabolic equation
Demir A., Erdem A.
APPLIED MATHEMATICS AND COMPUTATION, cilt.219, sa.8, ss.3826-3830, 2012 (SCI-Expanded)
9. Comparative analysis of inverse coefficient problems for parabolic equations. Part I: adjoint problem approach
Hasanov A., Pektaş B., Erdem A.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, cilt.19, sa.5, ss.599-615, 2011 (SCI-Expanded)
10. 5th International Conference Inverse Problems: Modeling and Simulation
Hasanoglu A., Pektaş B., ERDEM A.
Journal of Inverse and Ill-Posed Problems, cilt.17, sa.6, ss.631-637, 2009 (SCI-Expanded)
11. Determination of unknown coefficient in a non-linear elliptic problem related to the elastoplastic torsion of a bar
HASANOV A., Erdem A.
IMA JOURNAL OF APPLIED MATHEMATICS, cilt.73, sa.4, ss.579-591, 2008 (SCI-Expanded)
12. Relationship between current response and time in ion transport problem including diffusion and convection. 2. Numerical approach
HASANOGLU S., Erdem A.
JOURNAL OF MATHEMATICAL CHEMISTRY, cilt.43, sa.4, ss.1458-1469, 2008 (SCI-Expanded)
13. The Fourth International Conference Inverse Problems: Modeling and Simulation
Hasanoglu A. H., ERDEM A.
Journal of Inverse and Ill-Posed Problems, cilt.15, sa.6, ss.641-643, 2007 (SCI-Expanded)
14. Monotonicity of input-output mappings in inverse coefficient and source problems for parabolic equations
HASANOV A., Demir A., Erdem A.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.335, sa.2, ss.1434-1451, 2007 (SCI-Expanded)
15. The method of lines for the numerical solution of a mathematical model for capillary formation: The role of endothelial cells in the capillary
Pamuk S., ERDEM A.
APPLIED MATHEMATICS AND COMPUTATION, cilt.186, sa.1, ss.831-835, 2007 (SCI-Expanded)
16. The method of lines for the numerical solution of a mathematical model for capillary formation: The role of tumor angiogenic factor in the extra-cellular matrix
ERDEM A., Pamuk S.
APPLIED MATHEMATICS AND COMPUTATION, cilt.186, sa.1, ss.891-897, 2007 (SCI-Expanded)

Diger Dergilerde Yayınlanan Makaleler

1. A NOTE ON BIPOLAR SOFT SUPRA TOPOLOGICAL SPACES
Coşkun A.
JOURNAL OF THE KOREAN SOCIETY OF MATHEMATICAL EDUCATION SERIES B-PURE AND APPLIED MATHEMATICS, cilt.30, sa.4, ss.357-375, 2023 (ESCI)
2. A NOTE ON BIPOLAR SOFT SUPRA TOPOLOGICAL SPACES
GÜNDÜZ Ç., Bayramov S., ERDEM A.
JOURNAL OF THE KOREAN SOCIETY OF MATHEMATICAL EDUCATION SERIES B-PURE AND APPLIED MATHEMATICS, cilt.30, sa.4, ss.357-375, 2023 (ESCI)
3. DETERMINATION OF A COEFFICIENT IN A SECOND-ORDERHYPERBOLIC PROBLEM
Erdem A.
Journal of Mathematical Analysis, cilt.11, sa.2, ss.102-112, 2020 (ESCI)
4. ON THE EXISTENCE AND UNIQUENESS OF SOLUTIONS FOR A FIRST AND SECOND-ORDER DISCRETE BOUNDARYVALUE PROBLEM
ERDEM A., DEMİR A.
Journal of Mathematical Analysis, cilt.11, sa.2, 2020 (ESCI)
5. DETERMINATION OF A COEFFICIENT IN A SECOND-ORDER HYPERBOLIC PROBLEM
Coskun A.
JOURNAL OF MATHEMATICAL ANALYSIS, cilt.11, sa.2, ss.102-112, 2020 (ESCI)
6. ON THE EXISTENCE AND UNIQUENESS OF SOLUTIONS FOR A FIRST AND SECOND-ORDER DISCRETE BOUNDARY VALUE PROBLEM
Coskun A., Demir A.
JOURNAL OF MATHEMATICAL ANALYSIS, cilt.11, sa.2, ss.86-101, 2020 (ESCI)
7. Comparative Analysis of the Modified SOR and BGC Methods Applied to the Poleness Conservative Finite Difference Scheme
ERDEM A.
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, cilt.6, ss.30-43, 2013 (ESCI)
8. Iteratively regularized gradient method for determination of source terms in a linear parabolic problem
ERDEM A.
American Journal of Computational and Applied Mathematics, cilt.3, ss.13-22, 2013 (Hakemsiz Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

1. Part I. A probabilistic soft set approach to decision making problems
Coşkun A.
3RD ICAENS 2022, Konya, Türkiye, 20 Temmuz 2022, ss.745
2. Part 2. A probabilistic soft multiset approach to group decision making problems
Coşkun A.
3rd International Conference on Applied Engineering and Natural Sciences, Konya, Türkiye, 20 Temmuz 2022, ss.849
3. AN INVERSE PROBLEM WITH THE NONLOCAL DIRICHLET BOUNDARY CONDITION
Coşkun A.
1st INTERNATIONAL LOTFI A.ZADEH CONFERENCE: FUZZY LOGIC AND APPLICATIONS, Baku, Azerbaycan, 20 Aralik 2021, ss.62
4. ON A PROBABILISTIC SOFT MULTISSET AND ITS APPLICATION IN MATRIX
Coşkun A.
1st INTERNATIONAL LOTFI A.ZADEH CONFERENCE: FUZZY LOGIC AND APPLICATIONS, Baku, Azerbaycan, 20 Aralik 2021, ss.61

5. **MEDICAL DIAGNOSIS PROBLEM BY USING NEUTROSOPHIC SOFT SET**
Coşkun A.
1st INTERNATIONAL LOTFI A.ZADEH CONFERENCE: FUZZY LOGIC AND APPLICATIONS, Baku, Azerbaijan, 20 - 21 Aralik 2021, ss.16-17
6. **The determination of the right hand side in a semilinear heat conduction problem with the nonlocal Dirichlet boundary condition**
ERDEM A.
the 3 international conference of operators in general morrey type spaces and applications, 16 - 20 Temmuz 2019
7. **Fuzzy soft expert set**
ERDEM A., GÜNDÜZ Ç.
2nd International Conference on Life and Engineering Sciences, 27 - 29 Haziran 2019
8. **A decision making problem by using neutrosophic soft set**
ERDEM A., GÜNDÜZ Ç.
2nd International Conference on Life and Engineering Sciences, 27 - 29 Haziran 2019
9. **Determination of a coefficient in a second-order hyperbolic problem**
ERDEM A.
5ThINTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS (ICRAPAM 2018), 23 - 27 Temmuz 2018
10. **On The Existence And Uniqueness Of Solutions For A First And Second-Order Discrete Boundary Value Problem**
ERDEM A., DEMİR A.
5Th INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS (ICRAPAM 2018), 23 - 27 Temmuz 2018
11. **Soft matrices on soft multisets in an optimal decision process**
Coskun A., Aras C. G., Cakalli H., Sonmez A.
3rd International Conference on Analysis and Applied Mathematics (ICAAM), Almaty, Kazakhstan, 7 - 10 Eylül 2016, cilt.1759
12. **Probabilistic Soft MultiSet Theory**
ERDEM A., TÜRKMEN G.
International Mathematics Symposium, International Mathematics Symposium, 11 - 13 Temmuz 2014
13. **Experimental study for characterization of time dependent source term and initial temperature**
ERDEM A.
The 7th International Conference "Inverse Problems: Modeling and Simulation, 26 - 31 Mayıs 2014
14. **On the Existence and Uniqueness of Solutions for Discrete Boundary Value Problems**
ERDEM A., DEMİR A.
Nonlinear Phenomena in Complex System, II International Seminar Nonlinear Phenomenology Advances, 1 - 05 Ekim 2013
15. **A simultaneous approach to inverse source problem by Green'xxs function**
ERDEM A.
Algerian-Turkish International Days on Mathematics 2013, 12 - 14 Eylül 2013
16. **Soft Path Connectedness on Soft Topological Spaces**
BAYRAMOV S., GÜNDÜZ Ç., ERDEM A.
Proceedings of the 13th International Conference on Computational and Mathematical Methods in Science and Engineering, 24 - 27 Temmuz 2013
17. **A numerical method based on the polynomial regression for the inverse diffusion problem**
ERDEM A.
Proceedings of the 13th International Conference on Computational and Mathematical Methods in Science and Engineering, 24 - 27 Temmuz 2013
18. **Comparative numerical analysis of coarse-fine mesh and gradient methods in inverse coefficient problems for parabolic equations**
ERDEM A., HASANOV A., PEKTAŞ B.

- The Fifth International Conference "Inverse Problems:Modeling and Simulation", 24 - 29 Mayıs 2010
19. **Reconstruction algorithms for parabolic coefficient identification problems based on adjoint approach**
ERDEM A.
The Fifth International Conference Algorithmic Analysis of Unstable Problems, 2 Haziran - 06 Eylül 2008
20. **Numerical analysis of ill-posedness of parabolic coefficient identification problems based on adjoint problem approach**
ERDEM A., HASANOV A., PEKTAŞ B.
The Fifth International Conference Algorithmic Analysis of Unstable Problems, 2 - 06 Eylül 2008
21. **Monotonicity of input-output mappings and Lipschitz continuity of related auxiliary functionals in inverse coefficient problems**
ERDEM A., HASANOV A.
The Fifth International Conference Algorithmic Analysis of Unstable Problems, Rusya, 2 - 06 Eylül 2008
22. **Monotonicity of input-output mappings and Frechet differentiability and Lipschitz continuity of related auxiliary functionals in inverse problems for parabolic equations**
ERDEM A., HASANOV A.
The Fourth Int.Conference "Inverse Problems: Modeling and Simulation", 26 - 31 Mayıs 2008
23. **An adjoint problem approach for coefficient identification in a linear hyperbolic problem**
ERDEM A.
The ISAAC(International Society for Analysis, its Applications and Computation), 13 - 18 Ağustos 2007
24. **An analysis of the cost functional for parabolic inverse source problem**
ERDEM A.
Proceedings of The International Conference on Modeling and Simulation, 28 - 30 Ağustos 2006
25. **Differentiability and Lipschitz property of the cost function related to parabolic optimal control problems**
ERDEM A.
Pioneers Of Bulgarian Mathematics, 8 - 10 Temmuz 2006
26. **An analysis of the adjoint problem approach for parabolic inverse source problem with measured Dirichlet data**
ERDEM A.
The Third International Conference "Inverse Problems: Modeling and Simulation", 29 Mayıs - 02 Haziran 2006

Verdiği Dersler

Matematik I, Lisans, 2023 - 2024

Diferansiyel Denklemler, Lisans, 2023 - 2024

Uygulamalı Sayısal Yöntemler I, Yüksek Lisans, 2023 - 2024

Matematik II, Lisans, 2022 - 2023

Bilgisayar Programlama, Lisans, 2022 - 2023

MATLAB, Lisans, 2023 - 2024

Matematik I, Lisans, 2018 - 2019

Diferansiyel Denklemler, Lisans, 2018 - 2019

Lineer Cebir, Lisans, 2013 - 2014

Olasılık ve İstatistik, Lisans, 2013 - 2014

Bilgisayar Programlama, Lisans, 2013 - 2014

Lineer Operatörler, Yüksek Lisans, 2012 - 2013

Sayısal Analiz, Lisans, 2012 - 2013

Uygulamalı Sayısal Yöntemler II, Yüksek Lisans, 2012 - 2013

Kısmi Türevli Diferansiyel Denklemlerin Seçmeli Bölümleri, Doktora, 2011 - 2012

Ters Problemler, Yüksek Lisans, 2010 - 2011

Metrikler

Yayın: 50

Atıf (WoS): 132

Atıf (Scopus): 129

H-İndeks (WoS): 7

H-İndeks (Scopus): 7

Araştırma Alanları

Matematik, Fark Denklemleri ve Fonksiyonel Denklemler, Sayısal Analiz, Temel Bilimler

Akademî Dışı Deneyim

University of Leeds

Kocaeli Üniversitesi

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