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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Van Yüzüncü Yıl Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, Türkiye 2012 - 2018

Yüksek Lisans, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, Türkiye 2010 - 2012

Lisans, Kahramanmaraş Sütçü İmam Üniversitesi, Fen Edebiyat Fakültesi, Matematik, Türkiye 2006 - 2010

Yabancı Diller

İngilizce, B2 Orta Üstü

Araştırma Alanları

Matematik, Diferansiyel denklemler, Sayısal Analiz, Temel Bilimler

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2019 - Devam Ediyor

Araştırma Görevlisi Dr., Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2018 - 2019

Araştırma Görevlisi, Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2012 - 2018

Verdiği Dersler

Matematik, Ön Lisans, 2018 - 2019

Matematik I, Ön Lisans, 2018 - 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. An effective approach for numerical solution of linear and nonlinear singular boundary value problems

Saldır O., Sakar M. G.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.46, sa.1, ss.1395-1410, 2023 (SCI-Expanded)

- II. A New Reproducing Kernel Approach for Nonlinear Fractional Three-Point Boundary Value

Problems

Sakar M. G., Saldır O.

FRACTAL AND FRACTIONAL, cilt.4, sa.4, 2020 (SCI-Expanded)

- III. A novel iterative solution for time-fractional Boussinesq equation by reproducing kernel method

Sakar M. G., Saldır O.

JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, cilt.64, sa.1-2, ss.227-254, 2020 (SCI-Expanded)

- IV. Numerical Solution of Fractional Order Burgers' Equation with Dirichlet and Neumann Boundary Conditions by Reproducing Kernel Method

Saldır O., Sakar M. G., Erdoğan F.

FRACTAL AND FRACTIONAL, cilt.4, sa.2, 2020 (SCI-Expanded)

- V. Numerical solution of time-fractional Kawahara equation using reproducing kernel method with error estimate

Saldır O., Sakar M. G., Erdoğan F.

COMPUTATIONAL & APPLIED MATHEMATICS, cilt.38, sa.4, 2019 (SCI-Expanded)

- VI. A Novel Technique for Fractional Bagley-Torvik Equation

Sakar M. G., Saldır O., AKGÜL A.

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, cilt.89, sa.3, ss.539-545, 2019 (SCI-Expanded)

- VII. An iterative approximation for time-fractional Cahn-Allen equation with reproducing kernel method

Sakar M. G., Saldır O., Erdoğan F.

COMPUTATIONAL & APPLIED MATHEMATICS, cilt.37, sa.5, ss.5951-5964, 2018 (SCI-Expanded)

- VIII. Improving Variational Iteration Method with Auxiliary Parameter for Nonlinear Time-Fractional Partial Differential Equations

Sakar M. G., Saldır O.

JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, cilt.174, sa.2, ss.530-549, 2017 (SCI-Expanded)

Düzenlenen Dergilerde Yayınlanan Makaleler

- I. Numerical investigations to design a novel model based on the fifth order system of Emden-Fowler equations

Zulqurnain S., Sakar M. G., Yeskendirova M., Saldır O.

THEORETICAL AND APPLIED MECHANICS LETTERS, cilt.10, sa.5, ss.333-342, 2020 (ESCI)

- II. A finite difference method on layer-adapted mesh for singularly perturbed delay differential equations

Erdoğan F., Sakar M. G., Saldır O.

Applied Mathematics and Nonlinear Sciences , cilt.5, sa.1, ss.425-436, 2020 (Scopus)

- III. A Hybrid Method for Singularly Perturbed Convection-Diffusion Equation

Sakar M. G., Saldır O., Erdoğan F.

International Journal of Applied and Computational Mathematics, cilt.5, sa.5, 2019 (Scopus)

- IV. Numerical Solution of Fractional Bratu Type Equations with Legendre Reproducing Kernel Method

Sakar M. G., Saldır O., Akgül A.

International Journal of Applied and Computational Mathematics, cilt.4, 2018 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. A NEW APPROACH FOR NUMERICAL SOLUTION OF FOURTH ORDER EMDEN-FOWLER EQUATION

Saldır O.

6th International Conference on Computational Mathematics and Engineering Sciences, Ordu, Türkiye, 20 - 22 Mayıs 2022, ss.278

- II. A NUMERICAL APPROACH FOR SINGULAR BOUNDARY VALUE PROBLEM**
Saldır O., Sakar M. G.
6th International Conference on Computational Mathematics and Engineering Sciences, Ordu, Türkiye, 20 - 22 Mayıs 2022, ss.277
- III. FITTED DIFFERENCE SCHEMES FOR DELAY CONVECTION-DIFFUSION PROBLEMS WITH SMALL PARAMETER**
Erdoğan F., SAKAR M. G., Saldır O.
9. International Youth Science Forum Litteris et Artibus, Lviv, Ukrayna, 21 - 23 Kasım 2019, ss.65-68
- IV. REPRODUCİNG KERNEL METHOD WİTH CHEBYSHEV POLYNOMİALS FOR FRACTİONAL TWO-POİNT BOUNDARY VALUE PROBLEM**
Sakar M. G., SALDIR O., Erdoğan F.
4th International Conference on Computational Mathematics and Engineering Sciences, Antalya, Türkiye, 20 - 22 Mayıs 2019, ss.200
- V. LAYER ADAPTED MESHES FOR SINGULARLY PERTURBED CONVECTION-DIFFUSION PROBLEM WITH DELAY**
Erdoğan F., SAKAR M. G., SALDIR O.
4th International Conference on Computational Mathematics and Engineering Sciences, Antalya, Türkiye, 20 - 22 Mayıs 2019, ss.148
- VI. A NEW NUMERİCAL SOLUTİON FOR SİNGULARLY PERTURBED BOUNDARY VALUE PROBLEMS**
SALDIR O., Sakar M. G., Erdoğan F.
4th International Conference on Computational Mathematics and Engineering Sciences, Antalya, Türkiye, 20 - 22 Mayıs 2019, ss.56
- VII. Reproducing kernel method with Bernstein polynomials for fractional boundary value problems**
Sakar M. G., Saldır O., Erdoğan F.
2nd International Conference on Pure and Applied Mathematics (ICPAM-VAN 2018), Van, Türkiye, 11 - 13 Eylül 2018, ss.116
- VIII. A numerical approach for time-fractional Kawahara equation with reproducing kernel method**
Saldır O., Sakar M. G., Erdoğan F.
2nd International Conference on Pure and Applied Mathematics (ICPAM-VAN 2018), Van, Türkiye, 11 - 13 Eylül 2018, ss.117
- IX. An Iterative Approximation for Time-Fractional Clannish Random Walker's Parabolic Equation in Reproducing Kernel Space**
Sakar M. G., Erdoğan F., Saldır O.
7TH INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Kiev, Ukrayna, 28 - 31 Ağustos 2018, ss.116
- X. Reproducing Kernel Method for Time Fractional Allen- Cahn Equation**
Saldır O., Sakar M. G., Erdoğan F.
3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Kıbrıs (Kktc), 4 - 06 Mayıs 2018, ss.2-3
- XI. Uniform Difference Schemes for Singularly Perturbed Delay Differential Equations with Delay**
Erdoğan F., Sakar M. G., Saldır O.
3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Kıbrıs (Kktc), 4 - 06 Mayıs 2018, ss.1-2
- XII. Reproducing Kernel Method for Time Fractional Advection equation**
SAKAR M. G., SALDIR O., Erdoğan F.
3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Kıbrıs (Kktc), 4 - 06 Mayıs 2018, ss.1-3
- XIII. Uniform Numerical Methods for Singularly Perturbed Integro-Differential Equations With Delay**
Erdoğan F., Sakar M. G., Saldır O.
Ukrainian Conference on Applied Mathematics, Lviv, Ukrayna, 28 - 30 Eylül 2017, ss.1
- XIV. A new numerical approach for fractional boundary value problems**
Saldır O., Sakar M. G.

- Cucasian Mathematics Conference II (CMC II), Van, Türkiye, 22 - 24 Ağustos 2017, ss.121-122
- XV. **Non uniform haat wavelet method for singularly perturbed convection diffusion equations**
Sakar M. G., Saldır O., Erdoğan F.
The 2nd International Symposium on Computational Mathematics and Engineering Sciences, İstanbul, Türkiye, 20 - 22 Mayıs 2017, ss.1
- XVI. **Legendre Reproducing Kernel Method for Fractional Two Point Boundary Value Problem**
Saldır O., Sakar M. G., Erdoğan F.
The 2nd International Symposium on Computational Mathematics and Engineering Sciences, İstanbul, Türkiye, 20 - 22 Mayıs 2017, ss.1
- XVII. **Higher Order Difference Schemes for Singularly Perturbed Delay Differential Equations with Delay**
Erdoğan F., Sakar M. G., Saldır O.
, The 2st International Symposium on Computational Mathematics and Engineering Sciences, İstanbul, Türkiye, 20 - 22 Mayıs 2017, ss.1
- XVIII. **Numerical Solution of Fractional Bratu Type Equation by Legendre-Reproducing Kernel Method**
Sakar M. G., AKGÜL A., Saldır O.
International Workshop on Mathematical Methods in Engineering, Ankara, Türkiye, 27 - 29 Nisan 2017, ss.117
- XIX. **A New Technique for Numerical Solution of Fractional BVP's**
Sakar M. G., AKGÜL A., Saldır O.
International Workshop on Mathematical Methods in Engineering, Ankara, Türkiye, 27 - 29 Nisan 2017, ss.117
- XX. **An Iterative Reproducing Kernel Method for Time and Space Fractional Burgers Equation**
Saldır O., Sakar M. G.
International Workshop on Mathematical Methods in Engineering, Ankara, Türkiye, 27 - 29 Nisan 2017, ss.118
- XXI. **HOMOTOPY PERTURBATION METHOD FOR TIME-FRACTIONAL PDEs WITH PROPORTIONAL DELAYS**
Saldır O., Sakar M. G.
Mathematical Analysis, Differential Equations and their Applications (MADEA 7), Baku, Azerbaijan, 8 - 13 Eylül 2015, ss.147
- XXII. **A fitted numerov method for singularly perturbed reaction-diffusion equations**
Erdoğan F., SAKAR M. G., SALDIR O.
International Conference on Pure and Applied, Van, Türkiye, 25 - 28 Ağustos 2015, ss.1
- XXIII. **An exponential fitted method for singularly perturbed reactin-diffusion equations**
SAKAR M. G., Erdoğan F., Saldır O.
International Conference on Pure and Applied, Van, Türkiye, 25 - 28 Ağustos 2015, ss.10
- XXIV. **A NEW NUMERICAL APPROACH FOR SOLVING TIME-FRACTIONAL PARTIAL DIFFERENTIAL EQUATIONS**
Sakar M. G., Saldır O.
INTERNATIONAL CONFERENCE ON PURE AND APPLIED MATHEMATICS (ICPAM 2015), Van, Türkiye, 25 - 28 Ağustos 2015, ss.115
- XXV. **A COMBINATION OF VIM AND ASYMPTOTIC EXPANSION FOR SINGULARLY PERTURBED CONVECTION-DIFFUSION PROBLEM**
Saldır O., Sakar M. G.
INTERNATIONAL CONFERENCE ON PURE AND APPLIED MATHEMATICS (ICPAM 2015), Van, Türkiye, 25 - 28 Ağustos 2015, ss.116
- XXVI. **On the numerical solution of singularly perturbed reaction-diffusion equations**
Saldır O., SAKAR M. G., Erdoğan F.
International Conference on Differential and Difference Equations & Applications, Lizbon, Portekiz, 18 - 22 Mayıs 2015, ss.84
- XXVII. **A novel approach to solution of singularly perturbed convection-diffusion problem**
Erdoğan F., Yamaç K., SAKAR M. G., Saldır O.
International Conference on Differential and Difference Equations & Applications, Lizbon, Portekiz, 18 - 22 Mayıs 2015, ss.106-107
- XXVIII. **Numerical Methods on a Shishkin Mesh for Singuarly Perturbed Delay Differential Equations**

- Erdogan F., Sakar M. G., Saldır O.
3. INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Vienna,
Avusturya, 25 - 28 Ağustos 2014, ss.187
- XXIX. **A Finite Difference Analysis for Singularly Perturbed Differential Difference Equations with Delay and Advance**
Erdogan F., Saldır O.
2. INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS (IECMSA-2013),
Sarajevo, Bosna-Hersek, 26 - 29 Ağustos 2013, ss.163
- XXX. **An Iterative Scheme for the Solution of Singularly Perturbed Delay Differential Equation**
Erdogan F., Saldır O.
2. INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS (IECMSA-2013),
Sarajevo, Bosna-Hersek, 26 - 29 Ağustos 2013, ss.162
- XXXI. **Oscillation Theorems for Second-Order Nonlinear Dynamic Equation on Time Scales**
ŞENEL M. T., Saldır O., UTKU N.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA, İstanbul, Türkiye, 29 Haziran - 02 Temmuz
2011, ss.145

Bilimsel Hakemlikler

Fundamental Journal of Mathematics and Applications, Diğer İndekslerce Taranan Dergi, Kasım 2018
Journal of Advanced Physics, Diğer İndekslerce Taranan Dergi, Ekim 2018
Journal of Advanced Physics, Diğer İndekslerce Taranan Dergi, Eylül 2018
Journal of Advanced Physics, Diğer İndekslerce Taranan Dergi, Ağustos 2018

Metrikler

Yayın: 43
Atıf (WoS): 96
Atıf (Scopus): 165
H-İndeks (WoS): 5
H-İndeks (Scopus): 7

Kongre ve Sempozyum Katılımı Faaliyetleri

2nd International Conference on Pure and Applied Mathematics (ICPAM-VAN 2018), Oturum Başkanı, Van, Türkiye,
2018
Caucasian Mathematics Conference (CMC)-II, Katılımcı, Van, Türkiye, 2017
2. International Conference on Computational Mathematics and Engineering Sciences, Katılımcı, İstanbul, Türkiye, 2017
International Workshop on Mathematical Methods in Engineering, Katılımcı, Ankara, Türkiye, 2017
Mathematical Analysis, Differential Equations and their Applications - MADEA7, Katılımcı, Baku, Azerbaycan, 2015
INTERNATIONAL CONFERENCE ON PURE AND APPLIED MATHEMATICS (ICPAM 2015), Katılımcı, Van, Türkiye, 2015
INTERNATIONAL CONFERENCE ON DIFFERENTIAL AND DIFFERENCE EQUATIONS & APPLICATIONS 2015, Katılımcı,
Lisboa, Portekiz, 2015
3. INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Katılımcı, Wien,
Avusturya, 2014
2. INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Katılımcı, Sarajevo,
Bosna-Hersek, 2013
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA, Katılımcı, İstanbul, Türkiye, 2011