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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: R-1854-2017

Yoksis Araştırmacı ID: 283206

Eğitim Bilgileri

Bütünleşik Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Türkiye 2012 - 2017
Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, Türkiye 2007 - 2012

Araştırma Alanları

Matematik, Sayısal Analiz

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, TED Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 2022 - Devam Ediyor

Dr. Öğr. Üyesi, Başkent Üniversitesi, İktisadi ve İdari Bilimler Fakültesi, işletme bölümü, 2018 - 2023

Akademik İdari Deneyim

Bölüm Başkan Yardımcısı, Başkent Üniversitesi, İktisadi ve İdari Bilimler Fakültesi, işletme bölümü, 2020 - 2022

Verdiği Dersler

Lineer Cebir I, Lisans

Olasılık Teorisine Giriş, Lisans

İleri Analiz II, Lisans, 2022 - 2023

Diferansiyel Denklemler, Lisans, 2021 - 2022

İleri Analiz II, Lisans, 2022 - 2023

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Solution of MHD-stokes flow in an L-shaped cavity with a local RBF-supported finite difference**
Çelik E., Gürbüz Çaldağ M.
Engineering Analysis with Boundary Elements, cilt.158, ss.356-363, 2024 (SCI-Expanded)
- II. **Streamline analysis of MHD flow in a double lid-driven cavity**

ÇELİK E., Gürbüz Çaldağ M.

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, cilt.238, sa.1, ss.64-74, 2024 (SCI-Expanded)

III. Stokes flow in lid-driven cavity under inclined magnetic field

Gurbuz-Caldag M., Celik E.

ARCHIVES OF MECHANICS, cilt.74, sa.6, ss.549-564, 2022 (SCI-Expanded)

IV. NUMERICAL STABILITY OF RBF APPROXIMATION FOR UNSTEADY MHD FLOW EQUATIONS

Gurbuz M., Tezer-Sezgin M.

APPLIED AND COMPUTATIONAL MATHEMATICS, cilt.18, sa.2, ss.123-134, 2019 (SCI-Expanded)

V. MHD Stokes flow and heat transfer in a lid-driven square cavity under horizontal magnetic field

Gürbüz M., TEZER M.

Mathematical Methods in the Applied Sciences, cilt.41, sa.6, ss.2350-2359, 2018 (SCI-Expanded)

VI. MHD convection flow in a constricted channel

TEZER M., Gürbüz M.

Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, cilt.26, sa.2, ss.267-283, 2018 (SCI-Expanded)

Diger Dergilerde Yayınlanan Makaleler

I. The Impact of Inclined Magnetic Field on Streamlines in a Constricted Lid-Driven Cavity

Çaldağ M., Çelik E.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, cilt.28, sa.1, ss.108-116, 2024 (Hakemli Dergi)

II. RBF SOLUTION OF MHD STOKES FLOW AND MHD FLOW IN A CONSTRICTED ENCLOSURE

GÜRBÜZ M., TEZER M.

Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, cilt.11, sa.1, ss.203-215, 2021 (Scopus)

III. Numerical Solution of MHD Incompressible Convection Flow in Channels

GÜRBÜZ M., TEZER M.

European Journal of Computational Mechanics, cilt.28, sa.5, ss.411-432, 2019 (Scopus)

IV. Numerical solution and stability analysis of transient MHD duct flow

TEZER M., GÜRBÜZ M.

Balikesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.20, sa.3, ss.53-61, 2018 (Hakemli Dergi)

V. MHD Stokes flow in lid-driven cavity and backward-facing step channel

GÜRBÜZ M., TEZER M.

European Journal of Computational Mechanics, cilt.24, sa.6, ss.279-301, 2015 (ESCI)

Kitap & Kitap Bölümleri

I. Biological and Medical Models and Applications / Solution of MHD Flow with BEM Using Direct

Radial Basis Function Interpolation

GÜRBÜZ M., TEZER M.

Progress in Industrial Mathematics at ECMI 2018 , Istvan Farago, Ferenc Izsak, Peter L. Simon, Editör, Springer, ss.269-275, 2019

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. RBF Solution of MHD Flow and Heat Transfer with Hall and Viscosity Parameters

GÜRBÜZ ÇALDAĞ M.

- 6th International Conferences on Science and Technology Natural Science and Technology ICONST-NST 2023,
Budva, Karadağ, 30 Ağustos - 01 Eylül 2023, ss.8
- II. **RBF SOLUTIONS OF STEADY FLOW IN A DOUBLE LID-DRIVEN CAVITY EXPOSED TO MAGNETIC FIELD**
ÇELİK E., GÜRBÜZ ÇALDAĞ M.
10th International Congress on Fundamental and Applied Sciences, İstanbul, Türkiye, 6 - 08 Haziran 2023
- III. **MHD Flow in a Constricted Lid-driven Cavity**
GÜRBÜZ ÇALDAĞ M., ÇELİK E.
5th International E-Conference on Mathematical Advances and Applications ICOMAA 2022, İstanbul, Türkiye, 11 Mayıs 2022, ss.131
- IV. **IMPACTS OF INCLINED MAGNETIC FIELD ON STOKES FLOW**
GÜRBÜZ ÇALDAĞ M., ÇELİK E.
8th International Congress on Fundamental and Applied Sciences 2021 (ICFAS2021), Antalya, Türkiye, 19 Ekim 2021, ss.1143
- V. **RBF Solution of MHD Flow in a Square Duct**
GÜRBÜZ M.
International Conference on Applied Mathematics in Engineering ICAME'21, Balıkesir, Türkiye, 01 Eylül 2021, ss.33
- VI. **RBF Solution of the Natural Convection Flow of Micropolar Fluids**
GÜRBÜZ M., TEZER M.
International Conference on Boundary Element and Meshless Techniques BeTeq 2019, 22 - 24 Temmuz 2019
- VII. **RBF Solution of MHD Convection Flow in a Lid-driven Cavity with an Obstacle**
GÜRBÜZ M., TEZER M.
Numerical Analysis and Computational Fluid Dynamics: Workshop in Honor of Münevver Tezer-Sezgin'xxs 67th Birthday, Ankara, Türkiye, 19 - 20 Nisan 2019
- VIII. **Stability Analysis of Time Dependent MHD Flow Equations in a Rectangular Duct**
GÜRBÜZ M., TEZER M.
BEYOND: Workshop on Computational Science and Engineering, Ankara, Türkiye, 20 - 21 Ekim 2018
- IX. **Stability of Unsteady MHD Flow in a Rectangular Duct**
TEZER M., GÜRBÜZ M.
International Conference on Applied Mathematics in Engineering ICAME 2018, Balıkesir, Türkiye, 27 - 29 Haziran 2018, ss.35
- X. **Numerical Modelling of MHD Convection Flow in Cavities**
GÜRBÜZ M., TEZER M.
International Conference on Applied Mathematics in Engineering ICAME 2018, Balıkesir, Türkiye, 27 - 29 Haziran 2018, ss.34
- XI. **Solution of MHD Flow with BEM Using Direct Radial Basis Function Interpolation**
GÜRBÜZ M., TEZER M.
20th European Conference on Mathematics for Industry ECMI 2018, Budapest, Macaristan, 18 - 22 Haziran 2018, ss.370
- XII. **Numerical Stability of RBF Approximation for Unsteady MHD Flow Equations**
GÜRBÜZ M., TEZER M.
International Conference on Applied Analysis and Mathematical Modeling ICAAMM 2017, İstanbul, Türkiye, 3 - 07 Temmuz 2017, ss.135
- XIII. **Numerical stability of RBF solution for unsteady full MHD flow equations**
GÜRBÜZ M., TEZER M.
International Workshop on Mathematical Methods in Engineering MME 2017, Ankara, Türkiye, 27 - 29 Nisan 2017, ss.77
- XIV. **MHD Convection Flow in a Constricted Channel**
TEZER M., GÜRBÜZ M.
Eleventh Workshop On Mathematical Modelling of Environmental and Life Sciences Problems MMELSP 2016, Köstence, Romanya, 12 - 16 Ekim 2016, ss.28-29
- XV. **RBF solution of incompressible MHD convection flow in a pipe**

GÜRBÜZ M., TEZER M.

Eleventh Workshop On Mathematical Modelling of Environmental and Life Sciences Problems MMELSP 2016,
Koştence, Romanya, 12 - 16 Ekim 2016, ss.16

XVI. **MHD Stokes flow in a smoothly constricted rectangular enclosure**

GÜRBÜZ M., TEZER M.

International Conference on Boundary Element and Meshless Techniques BETEQ 2016, Ankara, Türkiye, 11 - 13
Temmuz 2016, ss.73-78

XVII. **Natural convection MHD Stokes flow in a square cavity**

GÜRBÜZ M., TEZER M.

the 16th International Conference on Computational and Mathematical Methods in Science and Engineering
CMMSE 2016, Cadiz, İspanya, 4 - 09 Temmuz 2016, ss.615-623

XVIII. **RBF solution of convective heat transfer MHD flow**

GÜRBÜZ M.

III. Kadın Matematikçiler Derneği Çalıştayı, İzmir, Türkiye, 27 - 29 Mayıs 2016, ss.39

XIX. **Lid-driven cavity and backward-facing step Stokes flow under an applied magnetic field**

GÜRBÜZ M., TEZER M.

Tenth UK Conference On Boundary Integral Methods UKBIM 2015, Brighton, İngiltere, 13 - 14 Temmuz 2015,
ss.66-75

XX. **Two-dimensional Stokes flow of an electrically conducting fluid in a channel under uniform magnetic field**

GÜRBÜZ M., TEZER M.

International Conference on Boundary Element and Meshless Techniques BETEQ 2015, Valencia, İspanya, 6 - 08
Temmuz 2015, ss.126-131