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### Eğitim Bilgileri

Doktora, The University of Calgary, Department Of Mathematics And Statistics, Kanada 1978 - 1983

Yüksek Lisans, University of Saskatchewan, Department Of Mathematics, Kanada 1976 - 1978

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1974 - 1976

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1970 - 1974

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Some Mixed Boundary Value Problems in Magnetohydrodynamics, The University of Calgary, Department Of Mathematics And Statistics, 1983

Yüksek Lisans, The Numerical Solution of the Navier-Stokes Equations using FEM, University of Saskatchewan, Department Of Mathematics, 1978

Yüksek Lisans, Finite Element Formulation and Programming Aspects of Navier-Stokes Equations, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 1976

### Araştırma Alanları

Matematik, Sayısal Analiz, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 2018 - Devam Ediyor

Prof.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 1993 - 2018

Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 1987 - 1993

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 1984 - 1987

Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 1983 - 1984

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 1975 - 1976

## **Yönetilen Tezler**

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Tezer M., Finite difference method solution of magnetohydrodynamic flow in channels with electrically conducting and slipping walls, Yüksek Lisans, S.ARSLAN(Öğrenci), 2018

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TEZER M., Numerical solution of nonlinear reaction-diffusion and wave equations, Doktora, G.MERAL(Öğrenci), 2009

TEZER M., The finite element method over a simple stabilizing grid applied to fluid flow problems, Doktora, S.HAN(Öğrenci), 2008

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## Jüri Üyelikleri

Tez Savunma (Doktora), Tez Savunma (Doktora), Muğla Sıtkı Koçman Üniversitesi, Haziran, 2018

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

- I. **Time dependent magnetic field effects on the MHD flow and heat transfer in a rectangular duct**  
 TEZER M., TÜRK Ö.  
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- II. **Optimal placement of the multiple magnetic sources for the MHD flow in a rectangular duct**  
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 Optimization and Engineering, cilt.24, sa.4, ss.2855-2885, 2023 (SCI-Expanded)
- III. **DRBEM solution of singularly perturbed coupled MHD flow equations**  
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- IV. **Stabilized FEM solution of MHD duct flow with conducting cracks in the insulation**  
 TEZER M., AYDIN S. T.  
 Journal of Computational and Applied Mathematics, cilt.423, 2023 (SCI-Expanded)
- V. **Electrically Conducting Fluid Flow and Electric Potential in a Square Cavity Subjected to a Point Magnetic Source**  
 ŞENEL P., TEZER M.  
 International Journal of Computational Fluid Dynamics, cilt.36, sa.5, ss.424-439, 2022 (SCI-Expanded)
- VI. **Convergence, stability, and numerical solution of unsteady free convection magnetohydrodynamical flow between two slipping plates**  
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- VII. **Time varying control of magnetohydrodynamic duct flow**  
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- European Journal of Mechanics, B/Fluids, cilt.89, ss.100-114, 2021 (SCI-Expanded)
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- IX. Controlling the Power-Law Fluid Flow and Heat Transfer Under the External Magnetic Field Using the Flow Index and the Hartmann Number  
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- X. FEM solution of MHD flow in an array of electromagnetically coupled rectangular ducts  
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- XII. Exact and FDM solutions of 1D MHD flow between parallel electrically conducting and slipping plates  
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- XIII. Stabilizing subgrid FEM solution of the natural convection flow under high magnitude magnetic field on sinusoidal corrugated enclosure  
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- XIV. Semi-analytical solution of MHD flow through boundary integrals on the pipe wall  
Tezer-Sezgin M., Bozkaya C.  
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Fendoglu H., Bozkaya C., Tezer-Sezgin M.  
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- XVI. NUMERICAL STABILITY OF RBF APPROXIMATION FOR UNSTEADY MHD FLOW EQUATIONS  
Gurbuz M., Tezer-Sezgin M.  
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- XVII. Determining the optimal parameters for the MHD flow and heat transfer with variable viscosity and Hall effect  
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- XVIII. DBEM and DRBEM solutions to 2D transient convection-diffusion-reaction type equations  
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- XIX. DRBEM solution of the Cauchy MHD duct flow with a slipping perturbed boundary  
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- XX. MHD Stokes flow and heat transfer in a lid-driven square cavity under horizontal magnetic field  
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- XXI. MHD convection flow in a constricted channel  
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- XXII. Convective Flow of Blood in Square and Circular Cavities  
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- XXIII. Pipe flow of a magnetizable fluid in rectangular cavities under magnetic sources**  
 Senel P., TEZER M.  
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- XXV. FEM solution to natural convection flow of a micropolar nanofluid in the presence of a magnetic field**  
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- XXVII. DRBEM solution of natural convective heat transfer with a non-Darcy model in a porous medium**  
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- XXVIII. DRBEM Solution of MHD Flow with Magnetic Induction and Heat Transfer**  
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- XXIX. Free-Space Fundamental Solution of a 2D Steady Slow Viscous MHD Flow**  
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- XXX. A FEM approach to biomagnetic fluid flow in multiple stenosed channels**  
 Turk Ö., Bozkaya C., Tezer M.  
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- XXXI. Numerical solution of buoyancy MHD flow with magnetic potential**  
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- XXXIII. DRBEM solution of mixed convection flow of nanofluids in enclosures with moving walls**  
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- XXXIV. Finite element study of biomagnetic fluid flow in a symmetrically stenosed channel**  
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- XXXV. MHD flow and heat transfer in a lid-driven porous enclosure**  
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- XXXVII. BEM and FEM based numerical simulations for biomagnetic fluid flow**  
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- XXXVIII. Chebyshev Spectral Collocation Method for Unsteady Mhd Flow and Heat Transfer of a Dusty Fluid Between Parallel Plates**

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- XXXIX. **BEM solution of MHD flow in a pipe coupled with magnetic induction of exterior region**  
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- XL. **DRBEM solution of the thermo-solutal buoyancy induced mixed convection flow problems**  
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- XLI. **DRBEM and DQM solutions of natural convection flow in a cavity under a magnetic field**  
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- XLII. **FEM solution of natural convection flow in square enclosures under magnetic field**  
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- XLIII. **DRBEM solution of free convection in porous enclosures under the effect of a magnetic field**  
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- XLIV. **BEM solution to magnetohydrodynamic flow in a semi-infinite?duct**  
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- XLV. **A direct BEM solution to MHD flow in electrostatically coupled rectangular channels**  
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- XLVI. **Differential quadrature solution of nonlinear Klein-Gordon and sine-Gordon equations**  
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- XLVII. **A numerical solution of the steady MHD flow through infinite strips with BEM**  
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- XLVIII. **Differential Quadrature Solution of Hyperbolic Telegraph Equation**  
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- XLIX. **The DRBEM solution of incompressible MHD flow equations**  
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- L. **The comparison between the DRBEM and DQM solution of nonlinear reaction-diffusion equation**  
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- LI. **The differential quadrature solution of nonlinear reaction-diffusion and wave equations using several time-integration schemes**  
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- LIII. **DRBEM solution of exterior nonlinear wave problem using FDM and LSM time integrations**  
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- LIV. **Two-level finite element method with a stabilizing subgrid for the incompressible MHD equations**  
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- LV. **DRBEM SOLUTION OF THE NATURAL CONVECTIVE FLOW OF MICROPOLAR FLUIDS**  
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- LVI. **The boundary element solution of the magnetohydrodynamic flow in an infinite region**  
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- LVII. **Solution to transient Navier-Stokes equations by the coupling of differential quadrature time integration scheme with dual reciprocity boundary element method**  
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- LVIII. **Differential quadrature solution of nonlinear reaction-diffusion equation with relaxation-type time integration**  
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- LX. **Time-domain BEM solution of convection-diffusion-type MHD equations**  
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- LXI. **Boundary element method solution of magnetohydrodynamic flow in a rectangular duct with conducting walls parallel to applied magnetic field**  
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- LXII. **Fundamental solution for coupled magnetohydrodynamic flow equations**  
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- LXIII. **Finite element method solution of electrically driven magnetohydrodynamic flow**  
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- LXIV. **Boundary element solution of unsteady magnetohydrodynamic duct flow with differential quadrature time integration scheme**  
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- LXV. **Solution of magnetohydrodynamic flow problems using the boundary element method**  
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- LXVI. **The finite element method for MHD flow at high Hartmann numbers**  
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- LXVII. **Solution of magnetohydrodynamic flow in a rectangular duct by differential quadrature method**  
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- LXVIII. **Dual reciprocity boundary element method for magnetohydrodynamic flow using radial basis functions**

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- LXX. **ON THE NUMERICAL EVALUATION OF AN OSCILLATING INFINITE SERIES .2.**  
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- II. **RBF SOLUTION OF MHD STOKES FLOW AND MHD FLOW IN A CONSTRICTED ENCLOSURE**  
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- III. **The BEM Solutions of MHD Flow and Heat Transfer in a Rectangular Duct with Temperature Dependent Viscosity**  
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- VIII. Natural convection flow of a nanofluid in an enclosure under an inclined uniform magnetic field  
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- I. Numerical Analysis  
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- II. DRBEM solution of MHD flow and electric potential in a rectangular pipe with a moving Lid  
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## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

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- II. **A CSCM Approximation of Steady MHD Flow and Heat Transfer Between Parallel Plates with Hydrodynamic Slip and Convective Boundary Conditions**  
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- III. **Finite Difference Solutions of 2D Magnetohydrodynamic Channel Flow in a Rectangular Duct**  
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- IV. **DRBEM Solution of MHD Flow in an Array of Electromagnetically Coupled Rectangular Ducts**  
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- V. **Fdm solution of mhd flow in a rectangular duct with slipping and partly insulated partly conducting side walls**  
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- VI. **MHD flow in a circular pipe with arbitrarily conducting slipping walls**  
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- IX. **Numerical Modelling of MHD Convection Flow in Cavities**  
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- X. **Stability of Unsteady MHD Flow in a Rectangular Duct**  
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- XV. **DRBEM Solution to MHD Flow in Ducts with Thin Slipping side Walls and Separated by Conducting Thick walls**  
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- XVI. **Finite Difference Solution of 1D Magnetohydrodynamic Channel Flow with Slipping Walls**  
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- XVII. **Optimal Control for the MHD Flow and Heat Transfer with Variable Viscosity in a Square Duct**  
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- XVIII. **The stabilized FEM solution of the MHD flow in a rectangular duct with perturbed boundary**  
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- XX. **DRBEM solution of MHD flow in pipes with partly insulated partly perfectly conducting slipping walls**  
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- XXI. **DRBEM solutions of the direct and inverse formulations of cauchy problem for the magnetohydrodynamic duct flow**  
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- XXII. **Numerical stability of RBF approximation for unsteady MHD flow equations**  
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- XXIII. **MHD duct flow with slipping velocity on the Hartmann and side walls**  
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- XXIV. **FEM solution of MHD flow in rectangular ducts with different wall conductivities and slip conditions**  
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- XXVI. **DRBEM solution of the cauchy problem for MHD rectangular duct flow**  
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- XXVII. **RBF Solution of Incompressible MHD Convection Flow in a Pipe**  
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- XXVIII. **DRBEM Solution of Biomagnetic Convection Flow in a Rectangular Pipe**  
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- XXIX. **MHD Convection Flow in a Constricted Channel**  
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- XXX. **DRBEM Solution of Biomagnetic Fluid Flow under a Point Source Magnetic Field**  
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- XLI. **Semi theoretical solution of outer Neumann problem coupled with inner Dirichlet problem for MHD**

- circular pipe flow**  
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- XLV. A new boundary approach for the 2D viscous MHD flow about a solid particle**  
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merve g., TEZER M.  
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- XLVIII. Flow in a rectangular duct under the influence of the magnetic field**  
ŞENEL P., TEZER M.  
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- L. Two dimensional Stokes Flow of an electrically conducting fluid in a channel under uniform magnetic field**  
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- LIII. Çember Üzerinde Sınır Koşulları ile Bağlı Dış Neumann ve İç Dirichlet MHD Kanal Akış Probleminin Çözümü**  
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Sariaydin A., Tezer-Sezgin M.  
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- LVIII. FEM solution to unsteady biomagnetic fluid flow in a channel**  
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- LIX. Solution of Navier-Stokes Equations Using FEM with Stabilizing Subgrid**  
TEZER M., AYDIN BAYRAM S., NESLİTÜRK A. İ.  
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- LX. FEM Solution of Diffusion-Convection-Reaction Equations in Air Pollution**  
TÜRK Ö., TEZER M.  
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- LXI. Numerical solution of magnetohydrodynamic flow problems using the boundary element method**  
Tezer-Sezgin M., Aydin S.  
27th World Conference on Boundary Elements and Other Mesh Reduction Methods, Florida, Amerika Birleşik Devletleri, 15 - 18 Mart 2005, cilt.39, ss.453-461

## Desteklenen Projeler

- BOZKAYA C., TEZER M., FENDOĞLU H., Yükseköğretim Kurumları Destekli Proje, Zamana bağlı magnetohidrodinamik akış probleminin pertürbe edilmiş sınıra sahip dikdörtgen kanal kesitinde sınır elemanları metodu ile çözümü, 2018 - 2019
- TEZER M., BOZKAYA C., Yükseköğretim Kurumları Destekli Proje, Silindirik kanal içerisinde magnetohidrodinamik akış probleminin teorik çözümü ve nümerik simülasyonu, 2016 - 2016
- TEZER M., ŞENEL P., Yükseköğretim Kurumları Destekli Proje, Magnetohidrodinamik (MHD)-Stokes Akışın Karşılıklı Sınır Elemanları Metodu (DRBEM) ile Nümerik Çözümü, 2015 - 2015
- TEZER M., GÜRBÜZ M., Yükseköğretim Kurumları Destekli Proje, Radyal Baz Fonksiyonları Yaklaşımı ile Manyetik Akış ve Elektrik Potansiyel Denklemlerinin Çözümü, 2015 - 2015
- TEZER M., Pekmen B., Yükseköğretim Kurumları Destekli Proje, Manyetik Potansiyel İçeren Manyeto-Konveksiyon Akışın Karşılıklı Sınır Elemanları Metodu ile Çözümü, 2013 - 2013
- TEZER M., TÜRK Ö., Yükseköğretim Kurumları Destekli Proje, İçinde Parçacıklar Bulunduran Sivilerin Zamana Bağımlı Magnetohidrodinamik Akışı Ve Isı Transferi, 2011 - 2011
- TEZER M., Yükseköğretim Kurumları Destekli Proje, Magnetohydrodynamic Flow In An Electrodynamically Conducting Semi-Infinite Strip, 2011 - 2011
- TEZER M., TÜRK Ö., Yükseköğretim Kurumları Destekli Proje, Numerical Solution Of Liquid Metal Magnetohydrodynamics(mhd) Flow With Heat Transfer, 2010 - 2010

## **Bilimsel Kuruluşlardaki Üyelikler / Görevler**

Türk Kadın Matematikçiler Derneği, Bilim Kurulu Üyesi, 2012 - Devam Ediyor

### **Metrikler**

Yayın: 155

Atıf (WoS): 976

Atıf (Scopus): 1070

H-İndeks (WoS): 17

H-İndeks (Scopus): 18

### **Kongre ve Sempozyum Katılımı Faaliyetleri**

7th International Conference on Mathematical Modeling in Physical Sciences, IC-MSQUARE, Çalışma Grubu, Moscow, Rusya, 2018

20th European Conference on Mathematics for Industry (ECMI-2018), Çalışma Grubu, Budapest, Macaristan, 2018

International Conference on Applied Mathematics in Engineering ICAME-2018, Çalışma Grubu, Balıkesir, Türkiye, 2018

3rd International conference on computational mathematics and engineering sciences (CMES 2018), Çalışma Grubu, Girne, Kıbrıs (Kktc), 2018

### **Davetli Konuşmalar**

Recent Developments and Applications of Numerical Analysis, Seminer, Muğla Sıtkı Koçman Üniversitesi, Türkiye, Mayıs 2018

Recent Developments and Applications of Numerical Analysis, Seminer, İzmir Ekonomi Üniversitesi, Türkiye, Nisan 2018

### **Ödüller**

Gürbüz M., Tezer M., TÜBİTAK ULAKBİM YAYIN TEŞVİK Makale Ödülü, Tübitak , Aralık 2018

Aydin C., Tezer M., TÜBİTAK ULAKBİM YAYIN TEŞVİK Makale Ödülü, Tübitak, Aralık 2018

Evcin C., Uğur Ö., Tezer M., ODTÜ Geliştirme Vakfı Makale Ödülü, Odtü Geliştirme Vakfı, Eylül 2018

Bozkaya C., Tezer M., Fendoğlu H., ODTU Gelistirme Vakfi Makale Odulu, Odtu Gelistirme Vakfı, Haziran 2018

Aydın C., Tezer M., ODTÜ Geliştirme Vakfı Makale Ödülü, Odtü Geliştirme Vakfı, Mayıs 2018

### **Akademi Dışı Deneyim**

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