

Prof. ALİ DELİCEOĞLU

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2000 - 2004

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Turkey 1997 - 2000

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Turkey 1992 - 1997

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Dinamik Sistemler ve Basit olmayan Dejenere Nokta Civarındaki Sıkıştırılmaz Akışların Topolojik Çatallanmaları, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2004

Postgraduate, New Fast Algorithms For Polynomial Interpolation and Evaluation on The Chebyshev Node Set , Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2000

Research Areas

Basic Sciences, Mathematics, Differential Equations, General Mathematics, Partial Differential Equations

Academic Titles / Tasks

Associate Professor, Erciyes University, Fen Fakültesi, Matematik, 2013 - Continues

Assistant Professor, Erciyes University, Fen Fakültesi, Matematik, 2005 - 2013

Research Assistant, Erciyes University, Fen Fakültesi, Matematik, 1998 - 2005

Academic and Administrative Experience

Head of Department, Erciyes University, Fen Fakültesi, Matematik, 2017 - Continues

Deputy Head of Department, Erciyes University, Fen Fakültesi, Matematik, 2017 - Continues

Fakülte Yönetim Kurulu Üyesi, Erciyes University, Fen Fakültesi, Matematik, 2013 - Continues

Rektörlük Stratejik Plan Komisyonu Üyesi, Erciyes University, Fen Fakültesi, Matematik, 2016 - 2017

Vice Dean, Erciyes University, Fen Fakültesi, 2010 - 2016

Erciyes Üniversitesi, Matematik, 2009 - 2010

Courses

Doctorate

Applied Mathematics, Doctorate, 2019 - 2020

Başlangıç ve Sınır Değer Problemleri- I, Doctorate, 2019 - 2020

Matematiksel Modellemeler ve Uygulamaları-I, Doctorate, 2019 - 2020

Undergraduate

Genel Matematik I, Undergraduate, 2019 - 2020

Mühendislik Matematiği, Undergraduate, 2019 - 2020

Diferansiyel Denklemler I, Undergraduate, 2018 - 2019

Supervised Theses

Deliceoğlu A., KÖŞE CİVARINDAKİ AKIŞ MODELLERİ VE Z-ŞEKLİNDEKİ KAVİTİ İÇERİSİNDEKİ GİRDAP OLUŞUMUNA ETKİSİ, Doctorate, E.ÇELİK(Student), 2019

Deliceoğlu A., Serbest Yüzey Nokta Civarındaki Akış Topolojisi, Postgraduate, E.BALLI(Student), 2019

Deliceoğlu A., BASİT OLMAYAN DEJENERE SİNGÜLER İÇ NOKTA CİVARINDAKİ YAPISAL ÇATALLANMALAR, Doctorate, D.BOZKURT(Student), 2019

Deliceoğlu A., Tekil Çatallanma, Postgraduate, D.TEKİN(Student), 2019

Deliceoğlu A., Köşe Yakınlarındaki Akış Çizgi Topolojisi, Postgraduate, E.ERTUNÇ(Student), 2014

Deliceoğlu A., Köşe Civarındaki Singüler Noktaların Eşleştirme Yöntemiyle Çözümü, Postgraduate, E.ÇELİK(Student), 2014

Deliceoğlu A., İki Boyutlu Sıkıştırılmaz Akışların Zamana Bağlı Yapısal Çatallanmaları, Postgraduate, B.ÇINA(Student), 2012

Deliceoğlu A., Düşük Reynolds Sayıları İçin Girintili ve Çıkıntılı Köşelerdeki Akış Çizgilerinin İncelenmesi, Postgraduate, M.LÜZÜM(Student), 2012

Deliceoğlu A., Yedinci Dereceden Simetrik Akış Fonksiyonunun Dinamik Sistemler Yardımıyla İncelenmesi, Postgraduate, A.BALCI(Student), 2012

Deliceoğlu A., Dejenere Singüler İç Nokta Civarındaki Yapısal Çatallanmalar, Postgraduate, D.BOZKURT(Student), 2011

Deliceoğlu A., İki parametrelili Kaviti İçindeki Düşük Boyutlu Modeller, Postgraduate, M.DEDE(Student), 2010

Deliceoğlu A., SİLİNDİR İÇERİSİNDEKİ AKSİMETRİK AKIŞ YAPILARININ TOPOLOJİK VE NÜMERİK OLARAK İNCELENMESİ, Postgraduate, E.AYDOĞDU(Student), 2009

Deliceoğlu A., Quasi-Düzgün Uzaylar, Postgraduate, S.KULA(Student), 2007

Published journal articles indexed by SCI, SSCI, and AHCI

I. INTERIOR STRUCTURAL BIFURCATION OF 2D SYMMETRIC INCOMPRESSIBLE FLOWS

Bozkurt D., DELİCEOĞLU A., Sengul T.

DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B, vol.25, no.7, pp.2775-2791, 2020 (SCI-Expanded)

II. STRUCTURAL BIFURCATION OF DIVERGENCE-FREE VECTOR FIELDS NEAR NON-SIMPLE DEGENERATE POINTS WITH SYMMETRY

DELİCEOĞLU A., Bozkurt D.

JOURNAL OF APPLIED ANALYSIS AND COMPUTATION, vol.9, no.2, pp.718-738, 2019 (SCI-Expanded)

III. Singular treatment of viscous flow near the corner by using matched eigenfunctions

Deliceoğlu A., Çelik E., Gürcan F.

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.233, pp.1660-1676, 2019 (SCI-Expanded)

- IV. **Topological flow structures in an L-shaped cavity with horizontal motion of the upper lid**
DELİCEOĞLU A., AYDIN S. H.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.937-943, 2014 (SCI-Expanded)
- V. **Flow bifurcation and eddy genesis in an L-shaped cavity**
DELİCEOĞLU A., AYDIN S. H.
COMPUTERS & FLUIDS, vol.73, pp.24-46, 2013 (SCI-Expanded)
- VI. **Topology of two-dimensional flow associated with degenerate dividing streamline on a free surface**
Deliceoglu A.
EUROPEAN JOURNAL OF APPLIED MATHEMATICS, vol.24, pp.77-101, 2013 (SCI-Expanded)
- VII. **Streamline topology near non-simple degenerate critical points in two-dimensional flow with symmetry about an axis**
DELİCEOĞLU A., GÜRCAN F.
JOURNAL OF FLUID MECHANICS, vol.606, pp.417-432, 2008 (SCI-Expanded)
- VIII. **Saddle connections near degenerate critical points in Stokes flow within cavities**
Gurcan F., Deliceoglu A.
APPLIED MATHEMATICS AND COMPUTATION, vol.172, no.2, pp.1133-1144, 2006 (SCI-Expanded)
- IX. **Streamline topologies near a non-simple degenerate critical point close to a stationary wall using normal forms**
Gurcan F., Deliceoglu A., Bakker P. G.
JOURNAL OF FLUID MECHANICS, vol.539, pp.299-311, 2005 (SCI-Expanded)
- X. **Streamline topologies near nonsimple degenerate points in two-dimensional flows with double symmetry away from boundaries and an application**
Gurcan F., Deliceoglu A.
PHYSICS OF FLUIDS, vol.17, no.9, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Mechanism of Eddy Generation in A Single Lid-Driven T-Shaped Cavity**
Deliceoğlu A., Çelik E.
Cumhuriyet Science Journal CSJ, vol.40, no.3, pp.477-489, 2019 (Peer-Reviewed Journal)
- II. **Streamline Topology of Axisymmetric Flow Near Non-Simple Singular Point**
DELİCEOĞLU A., Bozkurt D.
Cumhuriyet Science Journal, vol.39, no.3, pp.557-564, 2018 (Peer-Reviewed Journal)
- III. **An application of visco-capillary boundary conditions to reverse roll coating**
DELİCEOĞLU A., GÜRCAN F.
JOURNAL OF APPLICABLE FUNCTIONAL DIFFERENTIAL EQUATIONS, vol.1, pp.111-116, 2006 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

- I. **Flow topology around the re-entrant corner in an L-shaped cavity**
Deliceoğlu A.
INTERNATIONAL CONFERENCE ON MATHEMATICS, İstanbul, Turkey, 3 - 05 July 2019, pp.1
- II. **Üst Kapağı Hareketli Z-şekilli Kaviti İçerisindeki Akış Yapıları**
Deliceoğlu A., Çelik E., Lüzum M.
14. Ankara Matematik Günleri, Ankara, Turkey, 28 - 29 June 2019, pp.29
- III. **Flow topology in an L-shaped cavity with lids moving in the same directions**

Deliceoğlu A., Bozkurt D., Çelik E.

International Conference on Mathematics, İstanbul, Turkey, 3 - 06 July 2018, pp.2

- IV. **Structural bifurcations near a free surface using index theory**
Deliceoğlu A., Bozkurt D.
International Conference on Mathematics, İstanbul, Turkey, 3 - 06 July 2018, pp.1
- V. **Streamline Topology of Vortex Breakdown Bubbles near the Re-Entrant Corner**
Çelik E., Deliceoğlu A.
INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS, Aydın, Turkey, 11 - 15 May 2017, pp.78
- VI. **An Investigation of a Boundary Layer Separation Near a Re-entrant Corner**
ÇELİK E., DELİCEOĞLU A.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.424
- VII. **Separated Flow Structures in a Z-shaped Cavity**
ÇELİK E., DELİCEOĞLU A., GÜRCAN F.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.596
- VIII. **Interior Structural Bifurcation near Simple-Degenerate Singular Point with Symmetry**
DELİCEOĞLU A., BOZKURT D.
International Conference on Mathematics and Mathematics Education (ICMME-2017), 11 - 13 May 2017
- IX. **Stokes flow in Z-shaped cavity**
Deliceoğlu A.
1st International Conference of Applied Sciences Engineering and Mathematics - ICASEM , Ohrid, Macedonia, 5 - 07 May 2017, pp.1
- X. **Streamline topologies of axisymmetric flow near non-simple degenerate points using normal forms**
Deliceoğlu A.
1st International Conference of Applied Sciences Engineering and Mathematics - ICASEM , Ohrid, Macedonia, 5 - 07 May 2017, pp.1
- XI. **Topology of divergence free-vector fields close to the free surface**
Deliceoğlu A.
1st International Conference of Applied Sciences Engineering and Mathematics - ICASEM , Ohrid, Macedonia, 5 - 07 May 2017, pp.3
- XII. **Stokes flow in a Z-shaped domains**
DELİCEOĞLU A.
"1st International Conference of Applied Sciences, Engineering and Mathematics (ICASEM 2017), 5 - 07 May 2017
- XIII. **Structural Bifurcation of Divergence-Free Vector Fields near Non-simple Degenerate Points with Double Symmetry**
DELİCEOĞLU A., BOZKURT D.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, 27 April - 29 July 2017
- XIV. **Orijine göre simetrik olan dejenere akış modelleri ve onların Çatallanmaları**
Deliceoğlu A.
11. Ankara Matematik Günleri , Ankara, Turkey, 26 - 27 May 2016, pp.1
- XV. **Bifurcation of flow patterns and eddy structures in an L-shaped cavity with lids moving in the same directions**
Deliceoğlu A.
International Conference on Recent advances in pure and applied mathematics, Muğla, Turkey, 19 - 23 May 2016, pp.68
- XVI. **Topological behavior of viscous flow near a corner by using matched eigenfunctions**
ÇELİK E., DELİCEOĞLU A.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, İstanbul, Turkey, 8 - 12 June 2015, pp.1
- XVII. **Structural Bifurcation of Incompressible Vektör fields in an L-shaped Cavity with Lids Moving in the Same Direction**

- Deliceoğlu A.
3. International Conference on Complex Dynamical Systems, Ankara, Turkey, 24 - 26 November 2014, pp.23
- XVIII. **Köşe civarındaki girdap Akış Yapıları**
Deliceoğlu A., Ertunç E.
XXVII. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 26 - 29 August 2014, pp.1
- XIX. **Vortex Generation in a Z-Shaped Cavity**
Deliceoğlu A., Luzum M.
3rd International Eurasian Conference on Mathematical Sciences and Applications, Vienna, Austria, 25 - 28 August 2014, pp.1
- XX. **Köşe Civarında Singüler Noktaların Eşleştirme Yöntemiyle Çözümü**
ÇELİK E., DELİCEOĞLU A.
Ankara Matematik Günleri, Ankara, Turkey, 12 - 13 June 2014, pp.35
- XXI. **Flow structures in an L-shaped cavity with the vertical Motion of the upper lid**
Deliceoğlu A., Aydın S. H.
International Conference on Applied and Computational Mathematics ICACM, ODTÜ, Ankara, Turkey, 3 - 06 October 2012, pp.44
- XXII. **Z şekilli kavitedeki topolojik akış yapılarının incelenmesi**
Deliceoğlu A., Luzum M.
XXV. Ulusal Matematik Sempozyumu, Niğde, Turkey, 5 - 08 September 2012, pp.110
- XXIII. **Dejenere iç nokta civarındaki yapısal çatallanmalar**
Deliceoğlu A.
XXV. Ulusal Matematik Sempozyumu, Niğde, Turkey, 5 - 08 September 2012, pp.109
- XXIV. **Bifurcation of a degenerate cusp point on the free surface**
Deliceoğlu A.
International Conference on Applied Analysis and Algebra ICAAA, İstanbul, İstanbul, Turkey, 20 - 24 June 2012, pp.33
- XXV. **Serbest yüzeye teğet olan dejenere akış çizgisi**
Deliceoğlu A.
7. Ankara Matematik Günleri, Ankara, Turkey, 31 May - 01 June 2012, pp.104
- XXVI. **Serbest yüzey civarındaki akış yapılarının topolojik çatallanmaları**
Deliceoğlu A.
XXIV. Ulusal Matematik Sempozyumu, Bursa, Turkey, 10 - 12 September 2011, pp.18
- XXVII. **Eddy genesis and flow bifurcation in an L-shaped cavity**
Deliceoğlu A., Aydın S. H.
International Conference on Applied Analysis and Algebra ICAAA, İstanbul, Turkey, 29 June - 02 July 2011, pp.141
- XXVIII. **Topology of two separation bubbles with opposite rotations in a double-lid-driven rectangular cavity**
Deliceoğlu A., Gürcan F.
International Congress on Computational and Applied Mathematics, Antalya, Turkey, 29 September - 02 October 2009, pp.200
- XXIX. **A Theoretical and Numerical Investigation of Heteroclinic Connection in Two- Dimensional Incompressible Flow**
Deliceoğlu A.
International Conference of Mathematical Sciences, İstanbul, Turkey, 4 - 10 August 2009, pp.34
- XXX. **Simetrik Akış Modellerin Topolojik Çatallanmaları**
Deliceoğlu A.
IX. Dinamik Sistemler Çalıştayı, İzmir, Turkey, 18 - 19 June 2009, pp.1
- XXXI. **Sıkıştırılmaz Akışların Basit Olmayan Dejenere Nokta Civarındaki Akış Topolojisi**
Deliceoğlu A.
XXI. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 1 - 04 September 2008, pp.85

Supported Projects

GÜRCAN F., CAN H., ŞAHAN T., DELİCEOĞLU A., AYGÜN E., BİLGİL H., ARSLAN H., Project Supported by Higher Education Institutions, 23. Ulusal Matematik Sempozyumu, 2010 - 2010

DELİCEOĞLU A., AYDOĞDU E., Project Supported by Higher Education Institutions, SİLİNDİR İÇERİSİNDEKİ AKSİMETRİK AKIŞ YAPILARININ TOPOLOJİK VE NÜMERİK OLARAK İNCELENMESİ., 2007 - 2009

Activities in Scientific Journals

Cumhuriyet Science Journal, Committee Member, 2018 - Continues

Peer Reviews in Scientific Publications

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, August 2019

Avrupa Bilim ve Teknoloji Dergisi, Other Indexed Journal, May 2019

International Journal Of Engineering & Applied Sciences , Other Indexed Journal, October 2018

International Journal Of Engineering & Applied Sciences, Other Indexed Journal, September 2018

Cumhuriyet Science Journal, Other Indexed Journal, September 2018

PHYSICS OF FLUIDS, SCI Journal, May 2015

Scientific Project Refereeing

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, January 2018

Metrics

Publication: 45

Citation (WoS): 59

Citation (Scopus): 43

H-Index (WoS): 5

H-Index (Scopus): 4

Congress and Symposium Activities

International Conference on Mathematics, Working Group, İstanbul, Turkey, 2018

1st International Conference of Applied Sciences Engineering and Mathematics, Working Group, Ohrid, Macedonia, 2017

International Conference on Recent advances in pure and applied mathematics, Working Group, Muğla, Turkey, 2016

International Conference on Applied and Mathematical Modelling, Working Group, İstanbul, Turkey, 2015

International Eurasian Conference on Mathematical Sciences and Applications, Working Group, Vienna, Austria, 2014

3. International Conference on Complex Dynamical Systems, Working Group, Ankara, Turkey, 2014

International Conference on Applied Analysis and Algebra ICAAA, Working Group, İstanbul, Turkey, 2012

International Conference on Applied and Computational Mathematics ICACM, Working Group, Ankara, Turkey, 2012

International Conference on Applied Analysis and Algebra ICAAA, Working Group, İstanbul, Turkey, 2011

International Congress on Computational and Applied Mathematics, Working Group, Antalya, Turkey, 2009

International Conference of Mathematical Sciences ICMS, Working Group, İstanbul, Turkey, 2009