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Education Information

Doctorate, University Of Southern California, Fen Bilimleri Enstitüsü, Matematik , United States Of America 1996 - 2000

Post Graduate, Orta Doğu Teknik Üniversitesi, Risk Analizi A.B.D., Matematik , Turkey 1993 - 1996

Under Graduate, Orta Doğu Teknik Üniversitesi, Fen Fakültesi, Matematik , Turkey 1989 - 1993

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, The Weil-Petersson and Thurston Symplectic Forms, University Of Southern California, Matematik Bölümü, 2000

Post Graduate, Characterization of quasidiagonal isomorphisms between some types of kohte spaces, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Restoratif Diş Tedavisi A.B.D., 1996

Research Areas

Mathematics, Algebraic Topology, Geometry, Manifolds and Cell Complexes, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2014 - Continues

Associate Professor, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2013 - 2014

Associate Professor, Fatih Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2008 - 2013

Assistant Professor, Fatih Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2005 - 2008

Assistant Professor, Rowan University, Fen-Edebiyat, Matematik, 2004 - 2005

Assistant Professor, University Of Connecticut, Fen-Edebiyat, Matematik, 2001 - 2004

Assistant Professor, University Of Georgia, Fen-Edebiyat, Matematik, 2000 - 2001

Research Assistant, University Of Southern California, Fen-Edebiyat, Matematik, 1996 - 2000

Research Assistant, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Restoratif Diş Tedavisi A.B.D., 1993 - 1996

PROFESSIONAL EXPERIENCE

Head of Department, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2015 - 2016

Deputy Head of Department, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2014 - 2016

Erasmus Coordinator, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2013 - 2014

Courses

CEBIRSEL TOPOLOJİYE GIRIS, Under Graduate, 2016 - 2017

GEOMETRİDE SEÇME KONULAR I, Doctorate, 2016 - 2017

HİPERBOLİK GEOMETRİYE GIRIS, Under Graduate, 2016 - 2017

GENEL TOPOLOJİ, Under Graduate, 2016 - 2017

Advising Theses

SÖZEN Y., Fractional spaces generated by positive differential operators with the nonlocal condition, Doctorate, N.NALBANT(Student), 2016

SÖZEN Y., Reidemeister torsiyon ve yönlendirilmiş yüzeylerin pantolon parçalanışı, Post Graduate, E.DİRİCAN(Student), 2015

SÖZEN Y., Fractional spaces generated by positive operators in the half-space, Doctorate, S.AKTÜRK(Student), 2014

SÖZEN Y., Structure of the fractional spaces generated by positive operators and applications, Post Graduate, N.NALBANT(Student), 2011

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **On Reidemeister torsion of flag manifolds of compact semisimple Lie groups**
Ozel C., Basbaydar H., SÖZEN Y., YILMAZ E., Lee J. R., Park C.
AIMS MATHEMATICS, vol.5, pp.7562-7581, 2020 (Journal Indexed in SCI)
- II. **A note on exceptional groups and Reidemeister torsion**
Hezenci F., SÖZEN Y.
JOURNAL OF MATHEMATICAL PHYSICS, vol.59, 2018 (Journal Indexed in SCI)
- III. **REIDEMEISTER TORSION AND ORIENTABLE PUNCTURED SURFACES**
Dirican E., SÖZEN Y.
JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, vol.55, pp.1005-1018, 2018 (Journal Indexed in SCI)
- IV. **Connected sum of orientable surfaces and Reidemeister torsion**
Dirican E., SÖZEN Y.
PURE AND APPLIED MATHEMATICS QUARTERLY, vol.12, pp.517-541, 2016 (Journal Indexed in SCI)
- V. **A note on Reidemeister torsion and pleated surfaces**
SÖZEN Y.
JOURNAL OF KNOT THEORY AND ITS RAMIFICATIONS, vol.23, 2014 (Journal Indexed in SCI)
- VI. **Structure of fractional spaces generated by second order difference operators**
Ashyralyev A., Nalbant N., Sozen Y.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.351, pp.713-731, 2014 (Journal Indexed in SCI)
- VII. **The structure of fractional spaces generated by a two-dimensional elliptic differential operator and its applications**
Ashyralyev A., Akturk S., Sozen Y.
BOUNDARY VALUE PROBLEMS, 2014 (Journal Indexed in SCI)
- VIII. **Finite Difference Method for the Reverse Parabolic Problem**
ASHYRALYYEV C., DURAL A., Sozen Y.

ABSTRACT AND APPLIED ANALYSIS, 2012 (Journal Indexed in SCI)

- IX. **SYMPLECTIC CHAIN COMPLEX AND REIDEMEISTER TORSION OF COMPACT MANIFOLDS**
Sozen Y.
MATHEMATICA SCANDINAVICA, vol.111, pp.65-91, 2012 (Journal Indexed in SCI)
- X. **Reidemeister torsion of product manifolds and its applications to quantum entanglement**
Ozel C., Sozen Y.
BALKAN JOURNAL OF GEOMETRY AND ITS APPLICATIONS, vol.17, pp.66-76, 2012 (Journal Indexed in SCI)
- XI. **On a volume element of a Hitchin component**
Sozen Y.
FUNDAMENTA MATHEMATICAE, vol.217, pp.249-264, 2012 (Journal Indexed in SCI)
- XII. **A note on the parabolic equation with an arbitrary parameter at the derivative**
Ashyralyev A., Sozen Y.
MATHEMATICAL AND COMPUTER MODELLING, vol.54, pp.2565-2572, 2011 (Journal Indexed in SCI)
- XIII. **A note on reidemeister torsion and period matrix of Riemann surfaces**
Sozen Y.
MATHEMATICA SLOVACA, vol.61, pp.29-38, 2011 (Journal Indexed in SCI)
- XIV. **Well-posedness of parabolic differential and difference equations**
Ashyralyev A., Sozen Y.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.60, pp.792-802, 2010 (Journal Indexed in SCI)
- XV. **ON QUASI-DIAGONAL ISOMORPHISMS OF INFINITE AND FINITE TYPE DRAGILEV KOTHE SPACES**
Sozen Y.
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.40, pp.295-314, 2009 (Journal Indexed in SCI)
- XVI. **On Fubini-Study form and Reidemeister torsion**
Sozen Y.
TOPOLOGY AND ITS APPLICATIONS, vol.156, pp.951-955, 2009 (Journal Indexed in SCI)
- XVII. **Ideal cell-decompositions for a hyperbolic surface and Euler characteristic**
Sozen Y.
JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, vol.45, pp.965-976, 2008 (Journal Indexed in SCI)
- XVIII. **Reidemeister torsion of a symplectic complex**
Sozen Y.
OSAKA JOURNAL OF MATHEMATICS, vol.45, pp.1-39, 2008 (Journal Indexed in SCI)
- XIX. **A note on the parabolic differential and difference equations**
ASHYRALYEV A., Sozen Y., SOBOLEVSKII P. E.
ABSTRACT AND APPLIED ANALYSIS, 2007 (Journal Indexed in SCI)
- XX. **Variation of the Liouville measure of a hyperbolic surface**
BONAHON F., Sozen Y.
ERGODIC THEORY AND DYNAMICAL SYSTEMS, vol.23, pp.729-758, 2003 (Journal Indexed in SCI)
- XXI. **The Weil-Petersson and Thurston symplectic forms**
Sozen Y., BONAHON F.
DUKE MATHEMATICAL JOURNAL, vol.108, pp.581-597, 2001 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

I. Reidemeister torsion of some surfaces

Dirican E., SÖZEN Y.

International Conference on Advancements in Mathematical Sciences (AMS), Antalya, Turkey, 5 - 07 November 2015, vol.1676

II. Reidemeister torsion of Anasov representations

Jafar H. D. , SÖZEN Y.

International Conference on Advancements in Mathematical Sciences (AMS), Antalya, Turkey, 5 - 07 November

2015, vol.1676

- III. **Positivity of Two-Dimensional Elliptic Differential Operators in Holder Spaces**
Ashyralyev A., Akturk S., Sozen Y.
1st International Conference on Analysis and Applied Mathematics (ICAAM), Gümüşhane, Turkey, 18 - 21 October 2012, vol.1470, pp.77-79
- IV. **Finite Difference Method for The Reverse Parabolic Problem with Neumann Condition**
ASHYRALYYEV C., DURAL A., Sozen Y.
1st International Conference on Analysis and Applied Mathematics (ICAAM), Gümüşhane, Turkey, 18 - 21 October 2012, vol.1470, pp.102-105
- V. **Reidemeister Torsion of Hitchin Representations of $P\text{Sp}(2n)(\mathbb{R})$**
Sozen Y.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 September 2012, vol.1479, pp.570-573
- VI. **The Structure of Fractional Spaces Generated by the Difference Operator on the Half Plane**
Akturk S., Sozen Y.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 September 2012, vol.1479, pp.611-614
- VII. **C-Symplectic Complex and Riedemeister Torsion**
Sozen Y.
1st International Conference on Analysis and Applied Mathematics (ICAAM), Gümüşhane, Turkey, 18 - 21 October 2012, vol.1470, pp.262-265
- VIII. **The Positivity of Differential Operator with Nonlocal Boundary Conditions**
Nalbant N., Sozen Y.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 September 2012, vol.1479, pp.578-581
- IX. **Positivity of Two-Dimensional Elliptic Differential Operators with Nonlocal Conditions**
Ashyralyev A., Kaplan S., Sozen Y.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Halkidiki, Greece, 19 - 25 September 2011, vol.1389
- X. **A NOTE ON SYMPLECTIC CHAIN COMPLEX**
Sozen Y.
International Conference on Mathematical Sciences, Bolu, Turkey, 23 - 27 November 2010, vol.1309, pp.870-883

Supported Projects

SÖZEN Y., TUBITAK Project, Reidemeister Torsiyon Ve Kahler Manifolddlara Uygulamaları, 2015 - 2017

SÖZEN Y., Project Supported by Higher Education Institutions, Anasov Temsilleri ve Reidemeister Torsiyon, 2015 - 2015

SÖZEN Y., Project Supported by Higher Education Institutions, Klasik ve kuantum hiperbolik geometry ve topoloji, 2015 - 2015

KADILAR C., SÖZEN Y., KARASOY D., Project Supported by Higher Education Institutions, Fen Fakültesi Kariyer Günleri ve Bilim Şenliği İstatistik, Matematik ve Aktüerya Projeleri, 2015 - 2015

SÖZEN Y., TUBITAK Project, Hitchin komponentin üçgen ve kesme değişmezlerinde Atiyah Bott Goldman simplektik biçimi, 2014 - 2014

SÖZEN Y., TUBITAK Project, Reidemeister Torsion Symplectic Chain Complexes and Applications to 3 Manifolds, 2012 - 2013

Citations

Total Citations (WOS):192

h-index (WOS):9