Assoc. Prof. İBRAHİM ÜNAL

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Education Information

Doctorate, State University of New York at Stony Brook, Mathematics, United States Of America 2000 - 2007
Undergraduate, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü,
Turkey 1995 - 1999

Dissertations

Doctorate, Phi-Critical Submanifolds and Convexity in Calibrated Geometry, State University Of New York At Stony Brook,
Mathematics, 2007

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2015 -
Continues
Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2010 -
2018

Courses

DIFFERENTIABLE MANIFOLDS, Postgraduate, 2017 - 2018
INTRODUCTION TO DIFFERENTIAL EQUATIONS, Undergraduate, 2018 - 2019
CALCULUS OF FUNCTIONS OF SEVERAL VARIABLES, Undergraduate, 2017 - 2018
CALCULUS WITH ANALYTIC GEOMETRY, Undergraduate, 2018 - 2019
DIFFERENTIAL GEOMETRY, Undergraduate, 2017 - 2018

Advising Theses

ÜNAL İ., Exceptional Lie algebra G2 and its representations, Postgraduate, M.MUSTAFA(Student), 2022
ÜNAL İ., Discretization of Laplace-Beltrami operator, Postgraduate, I.ÇAKAR(Student), 2022
ÜNAL İ., ÖNSİPER M. H., Some problems on the geometry of calibrated manifolds, Doctorate, E.YALÇINKAYA(Student),

Published journal articles indexed by SCI, SSCI, and AHCI

I. **On symplectic 8-manifolds admitting Spin(7)-structure**
Yalcinkaya E., ÜNAL İ.
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.5, pp.1792-1801, 2020 (SCI-Expanded)

II. **A note on the Gauss maps of Cayley-free embeddings into spin(7)-manifolds**
Ünal İ.
DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS, vol.61, pp.1-8, 2018 (SCI-Expanded)

III. **h-Principle phi-free embeddings in calibrated manifolds**
Unal I.
INTERNATIONAL JOURNAL OF MATHEMATICS, vol.26, no.7, 2015 (SCI-Expanded)

IV. **Fiber structures of special (4+3+1) warped-like manifolds with Spin(7) holonomy**
UĞUZ S., ÜNAL İ.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.11, no.8, 2014 (SCI-Expanded)

V. **A note on critical values of calibrations**
Unal I.
DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS, vol.31, no.1, pp.29-32, 2013 (SCI-Expanded)

VI. **Topology of phi-convex domains in calibrated manifolds**
Unal I.
BULLETIN OF THE BRAZILIAN MATHEMATICAL SOCIETY, vol.42, no.2, pp.259-275, 2011 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **From Minimal Surfaces to Calibrated Submanifolds**
ÜNAL İ.
Workshop on Pure and Applied Mathematics, 28 - 30 November 2019

II. **Similarities between Complex and Calibrated Geometries**
ÜNAL İ.
Atılım Geometri Topoloji Çalıştayı, Turkey, 15 - 16 May 2015

III. **Critical Values of Calibrations and MinimalSubmanifolds**
ÜNAL İ.
2015 Joint Mathematics Meetings, San Antonio, 10 - 13 January 2015

IV. **Kalibre Edilmiş Manifoldlarda Potansiyel Teorisi**
ÜNAL İ.
27. Ulusal Matematik Sempozyumu, Turkey, 26 - 29 August 2014

V. **Fiber Structures of Special 4 3 1 Warped like Manifolds with Spin 7 holonomy**
ÜNAL İ., UĞUZ S.
9. Ankara Matematik Günleri, Turkey, 12 - 13 June 2014

VI. **Phi critical Submanifolds of Calibrated Manifolds**
ÜNAL İ.
Conference on Geometry, İstanbul, Turkey, 19 - 23 March 2014

VII. **free Submanifolds and Convexity in CalibratedManifolds**
ÜNAL İ.
2014 Joint Mathematics Meetings, Baltimore, Baltimore, United States Of America, 15 - 18 January 2014

VIII. **h principle and Phi free Embeddings in Calibrated Manifolds**
ÜNAL İ.
8. Ankara Matematik Günleri, Turkey, 13 - 14 June 2013

IX. **Topology of Phi free Submanifolds**
ÜNAL İ.
İzmir Algebraic Geometric Topology Days II, İzmir, Turkey, 9 - 14 January 2011

X. **Examples of Phi critical Submanifolds**
ÜNAL İ.
4. Ankara Matematik Günleri, Turkey, 4 - 05 June 2009

Supported Projects

ÜNAL İ., Project Supported by Higher Education Institutions, G_2 veya Spin(7) Dolanıma Sahip Kalibre Edilmiş Manifoldlardaki Phi-Özgür Altmanifoldların Geometrisi / Geometry of Phi-Free Submanifolds in Calibrated Manifolds with G_2 or Spin(7) Holonomy, 2016 - 2017

Activities in Scientific Journals

Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, Editor, 2022 - Continues

Scientific Refereeing

TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, June 2023

Metrics

Publication: 16
Citation (WoS): 7
Citation (Scopus): 8
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