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 H-Index (WoS): 2 H-Index (Scopus): 2