

Prof. ONUR ALP İLHAN

Personal Information

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Education Information

Doctorate, Özbekistan Milli Üniversitesi, Mekanik Matematik Fak., Matematiksel Fizik, Uzbekistan 2003 - 2005

Post Graduate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 1997 - 2002

Under Graduate, Erciyes University, Matematik, Turkey 1990 - 1995

Foreign Languages

Uzbek, B2 Upper Intermediate

English, B2 Upper Intermediate

Dissertations

Doctorate, Elastikiyet Teorisi Kontakt Problemlerine Bağlı olan İntegral Denklemlerinin Çözülebilirliği Hakkında , Özbekistan Milli Üniversitesi, Mekanik Matematik Fak., Matematiksel Fizik, 2005

Post Graduate, Topolojik Grupların Örtü Uzayları , Erciyes Üniversitesi, Fen Bilimleri Enst., Matematik, 2002

Research Areas

Mathematics, Differential Equations, Integral Equations, Natural Sciences

Academic Titles / Tasks

Professor, Erciyes University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2020 - Continues

Associate Professor, Erciyes University, Eğitim Fakültesi, Temel Eğitim, 2014 - 2020

Assistant Professor, Erciyes Üniversitesi, Eğitim Fak., İlköğretim, 2011 - 2014

Lecturer PhD, Erciyes Üniversitesi, Eğitim Fakültesi, Temel Eğitim, 2006 - 2011

Professional Experience

Courses

Matematiğin Uygulamaları, Post Graduate, 2015 - 2016

Diferansiyel Denklemler , Under Graduate, 2013 - 2014

soyut matematik, Under Graduate, 2013 - 2014

GENEL MATEMATİK, Under Graduate, 2011 - 2012

Advising Theses

İLHAN O. A. , 7. SINIF ÖĞRENCİLERİNİN ÇEMBER VE DAİRE KONUSUNDAKİ MATEMATİKSEL BAŞARILARI İLE VAN HİELE GEOMETRİK DÜŞÜNME DÜZEYLERİ İLİŞKİSİNİN İNCELENMESİ, Post Graduate, E.Demir(Student), 2019
İLHAN O. A. , 7. SINIF ÖĞRENCİLERİNİN DÖRTGENLER KONUSUNDAKİ MATEMATİKSEL BAŞARILARI İLE VAN HİELE GEOMETRİK DÜŞÜNME DÜZEYLERİ İLİŞKİSİNİN İNCELENMESİ, Post Graduate, M.Ersoy(Student), 2019
İLHAN O. A. , 8. SINIF ÖĞRENCİLERİNİN GEOMETRİK CİSİMLER KONUSUNDAKİ BİLGİLERİNİN VAN HİELE GEOMETRİK DÜŞÜNME DÜZEYLERİ AÇISINDAN İNCELENMESİ, Post Graduate, F.Karapınr(Student), 2017
İLHAN O. A. , HİLBERT UZAYINDA KISMİ İNTEGRAL DENKLEMLERİNİN ÇÖZÜMLENEBİLİRLİĞİ HAKKINDA, Post Graduate, Ö.Temir(Student), 2017

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

- **Multiple lump and solitary solutions for the generalized BK equation via Hirota bilinear and He's semi-inverse variational principle schemes arising in fluid mechanics**
Manafian J., İlhan O. A. , Alizadeh A., Mohammed S. A.
Communications In Theoretical Physics, vol.5, pp.11-20, 2020 (Journal Indexed in SCI Expanded)
- **Construction of functional closed form wave solutions to the ZKBBM equation and the Schrödinger equation**
İlhan O. A. , Islam M., Akbar M.
Iranian Journal of Science and Technology-Transactions of Mechanical Engineering, vol.2, no.1, pp.1-14, 2020 (Journal Indexed in SCI Expanded)
- **Forming localized waves of the nonlinearity of the DNA dynamics arising in oscillator-chain of Peyrard-Bishop model**
Manafian J., İlhan O. A. , Mohammed S. A.
AIMS MATHEMATICS, vol.5, pp.2461-2483, 2020 (Journal Indexed in SCI Expanded)
- **New exact solutions for Nematicons in liquid crystals by the $\tan(\phi/2)$ -expansion method arising in fluid mechanics**
İlhan O. A. , Manafian J., Alizadeh A., Baskonuş H. M.
European Physical Journal Plus, vol.135, pp.1-19, 2020 (Journal Indexed in SCI)
- **One, two and three soliton, periodic and cross-kink solutions to the (2+1)-D variable-coefficient KP equation**
Meihua H., Elagan S. K. M. M. , İlhan O. A. , Manafian J.
Modern Physics Letters B, vol.34, no.4, pp.1-20, 2020 (Journal Indexed in SCI)
- **Cross-kink wave solutions and semi-inverse variational for the (3+1)-D potential-YTSF equation with abundant novel interaction solutions**
Mohammed S. A. , İlhan O. A. , Ali K. K. , Manafian J.
East Asian Journal on Applied Mathematics, vol.10, pp.1-19, 2020 (Journal Indexed in SCI Expanded)
- **Periodic wave solutions and stability analysis for the KP-BBM equation with abundant novel interaction solutions**
Manafian J., İlhan O. A. , Alizadeh A.
Physica Scripta, vol.95, pp.1-14, 2020 (Journal Indexed in SCI)
- **Analytical treatment in optical metamaterials with anti-cubic law of nonlinearity by improved $\exp(-\Omega(\eta))$ -expansion method and extended sinh-Gordon equation expansion method**
İLHAN O. A. , Manafian J.
REVISTA MEXICANA DE FISICA, vol.65, no.6, pp.658-677, 2019 (Journal Indexed in SCI)
- **Lump wave solutions and the interaction phenomenon for a variable-coefficient Kadomtsev-Petviashvili equation**
İlhan O. A. , Manafian J., Shahriari M.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.78, pp.2429-2448, 2019 (Journal Indexed in SCI)
- **Periodic type and periodic cross-kink wave solutions to the (2+1)-dimensional breaking soliton equation arising in fluid dynamics**
İlhan O. A. , Manafian J.
MODERN PHYSICS LETTERS B, vol.33, 2019 (Journal Indexed in SCI)
- **On the Solvability of a Mixed Problem for a High-Order Partial Differential Equation with Fractional**

Derivatives with Respect to Time, with Laplace Operators with Spatial Variables and Nonlocal Boundary Conditions in Sobolev Classes

İlhan O. A. , Kasimov S. G. , Otaev S. Q. , Baskonus H. M.

MATHEMATICS, vol.7, 2019 (Journal Indexed in SCI)

- **Singular solitons in the pseudo-parabolic model arising in nonlinear surface waves**

İlhan O. A. , Esen A., Bulut H., Baskonus H. M.

RESULTS IN PHYSICS, vol.12, pp.1712-1715, 2019 (Journal Indexed in SCI)

- **On the convergence of the means spectral expansions corresponding to the pseudo-differential operators for distributions from the Sobolev-Liouville classes**

İlhan O. A. , Kasimov S. G. , Babaev M. M. , Soybaş D.

JOURNAL OF PSEUDO-DIFFERENTIAL OPERATORS AND APPLICATIONS, vol.10, pp.187-197, 2019 (Journal Indexed in SCI)

- **SOLVABILITY OF THE MIXED PROBLEM OF A HIGH-ORDER PDE WITH FRACTIONAL TIME DERIVATIVES, STURM-LIOUVILLE OPERATORS ON SPATIAL VARIABLES AND NON-LOCAL BOUNDARY CONDITIONS**

İlhan O. A. , Kasimov S. G. , Madraximov U. S. , Başkonuş H. M.

ROCKY MOUNTAIN JOURNAL OF MATHEMATICS, vol.49, pp.1191-1206, 2019 (Journal Indexed in SCI)

- **Dynamic of solitary wave solutions in some nonlinear pseudoparabolic models and Dodd-Bullough-Mikhailov equation**

İlhan O. A. , Bulut H., Sulaiman T. A. , Baskonus H. M.

INDIAN JOURNAL OF PHYSICS, vol.92, pp.999-1007, 2018 (Journal Indexed in SCI)

- **On the new wave solutions to a nonlinear model arising in plasma physics**

İlhan O. A. , Sulaiman T. A. , Bulut H., Baskonus H. M.

EUROPEAN PHYSICAL JOURNAL PLUS, vol.133, 2018 (Journal Indexed in SCI)

- **On the property of bases of multiple systems in Sobolev-Liouville classes**

İLHAN O. A. , Kasimov S. G.

AIMS MATHEMATICS, vol.2, no.2, pp.305-314, 2017 (Journal Indexed in SCI)

- **ON THE PROBLEMS OF PERIDYNAMICS WITH SPECIAL CONVOLUTION KERNELS**

Alimov S. A. , Cao Y., İlhan O. A.

JOURNAL OF INTEGRAL EQUATIONS AND APPLICATIONS, vol.26, pp.301-321, 2014 (Journal Indexed in SCI)

- **Solvability of Some Integral Equations in Banach Space and Their Applications to the Theory of Viscoelasticity**

İlhan O. A.

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

- **Solvability of some partial integral equations in Hilbert space**

İlhan O. A.

COMMUNICATIONS ON PURE AND APPLIED ANALYSIS, vol.7, pp.837-844, 2008 (Journal Indexed in SCI)

- **SOLVABILITY OF SOME INTEGRAL EQUATIONS IN HILBERT SPACES**

İlhan O. A.

ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2004 (Journal Indexed in SCI)

Articles Published in Other Journals

- **On the new wave behavior of the Magneto-Electro-Elastic(MEE) circular rod longitudinal wave equation**

İlhan O. A. , Bulut H., Sulaiman T. A. , Başkonuş H. M.

An International Journal of Optimization and Control: Theories & Applications (IJOCTA), vol.10, pp.1-8, 2020 (National Refreed University Journal)

- **Analyze of the Relationship Between Quadrilaterals Achievement Levels and Van Hiele Geometric Thinking Levels of The 7th Grade Students**

ERSOY M., İLHAN O. A. , SEVGİ S.

Higher Education Studies, vol.9, no.3, pp.1-10, 2019 (Refereed Journals of Other Institutions)

- **An Allee Threshold Model for a Glioblastoma(GB)-Immune System(IS) Interaction with Fuzzy Initial Values**

Benli F. B. , İlhan O. A. , Keskin Ö.

Applied Mathematics and Nonlinear Sciences, no.2, pp.1-10, 2019 (Refereed Journals of Other Institutions)

- **AN INVESTIGATION OF 8th GRADE STUDENTS' KNOWLEDGE ON GEOMETRICAL OBJECTS IN TERMS OF VAN HIELE LEVELS OF UNDERSTANDING GEOMETRY**

Karapınar F., İLHAN O. A.

American Journal of Educational Research, vol.6, no.2, pp.96-103, 2018 (Refereed Journals of Other Institutions)

- **A Partial Answer to Sidorenko's Conjecture on a Correlation Inequality for Bipartite Graphs**

SOYBAŞ D., İLHAN O. A.

Mathematics Letters, vol.1, pp.17-19, 2015 (Refereed Journals of Other Institutions)

- **On the integral equation associated with contact problem of the theory of elasticity**

İLHAN O. A.

Dokl. Acad. Sci. Uzb, no.5, pp.3-9, 2004 (Refereed Journals of Other Institutions)

- **On the conditions for solvability of one integral equation**

İLHAN O. A.

Vestnik NUUZ (Bulletin of Nat. Univ. Uzb.), no.3, pp.82-85, 2004 (International Refereed University Journal)

- **An inequality associated with some entire functions**

İLHAN O. A.

Journal of Inequalities in Pure and Applied Mathematics, vol.5, no.3, pp.1-7, 2004 (Refereed Journals of Other Institutions)

- **On the asymptotic behaviour of the one family of the entire functions**

İLHAN O. A.

Pedagogik Talim (Journal of Pedagogical Education), no.3, pp.30-32, 2004 (International Refereed University Journal)

Refereed Congress / Symposium Publications in Proceedings

- **Öğretmen Adaylarının Fonksiyonlar Konusundaki Kavramsal ve İşemsel Bilgi Yeterliliklerinin İncelenmesi**

SOYBAŞ D., İLHAN O. A.

IX. Matematik Sempozyumu Sergi ve Şenlikleri, Trabzon, Turkey, 20 - 22 October 2010, pp.167-173

- **GeoGebra as an instructional tool to promote students' operational and structural conception of function**

BAYAZİT İ., AKSOY Y., İLHAN O. A.

First North American GeoGebra Conference,, New York, United States Of America, 1 - 04 September 2010, pp.120-126

- **SOLVABILITY OF SOME INTEGRAL EQUATIONS IN BANACH SPACE**

İLHAN O. A.

7th international Conference on Dyn. Systems, Diff. Equations and applications, United States Of America, 1 - 04 May 2008, pp.82

- **Solvability of Some Volterra Type Integral Equations in Hilbert Space**

İLHAN O. A.

AIMS' Sixth international Conference on Dyn. Systems, Diff. Equations and applications, France, 1 - 04 September 2007, vol.2007, pp.28-34

Supported Projects

İLHAN O. A. , ERSOY M., Project Supported by Higher Education Institutions, 7 SINIF ÖĞRENCİLERİNİN DÖRTGENLER KONUSUNDAKİ MATEMATİKSEL BAŞARILARI İLE VAN HİELE GEOMETRİK DÜŞÜNME DÜZEYLERİ İLİŞKİSİNİN İNCELENMESİ, 2018 - 2019

İLHAN O. A. , DEMİR E., Project Supported by Higher Education Institutions, 7 SINIF ÖĞRENCİLERİNİN ÇEMBER VE DAİRE KONUSUNDAKİ MATEMATİKSEL BAŞARILARI İLE VAN HİELE GEOMETRİK DÜŞÜNME DÜZEYLERİ İLİŞKİSİNİN İNCELENMESİ, 2018 - 2019

İLHAN O. A. , KARAPINAR F., Project Supported by Higher Education Institutions, 8 SINIF ÖĞRENCİLERİNİN GEOMETRİK CİSİMLER KONUSUNDAKİ BİLGİLERİNİN VAN HİELE GEOMETRİK DÜŞÜNME DÜZEYLERİ

AÇISINDAN İNCELENMESİ, 2016 - 2017

İLHAN O. A. , Other Supported Projects, The well-posedness and regularity of a peridynamic model with a special kernel, 2012 - 2013

İLHAN O. A. , TUBITAK Project, Lisans ve Lisans Öncesi, Öğretmen ve Öğrencilere Yönelik Bilimsel Etkinlikleri Destekleme Programı, "Dinamik Matematik Yazılımı GeoGebra'nın Etkili ve Verimli Kullanımı", 2011 - 2011

İLHAN O. A. , EU Supported Other Project, BUILDING UP VIRTUAL MATHEMATICS LABORATORY, 2009 - 2011

Activities in Scientific Journals

SCIREA Journal of Mathematics, Publication Committee Member, 2018 - Continues

American Journal of Mathematical Analysis, Publication Committee Member, 2017 - Continues

Journal of Mathematical Sciences and Applications, Publication Committee Member, 2017 - Continues

American Journal of Numerical Analysis, Publication Committee Member, 2017 - Continues

International Journal of Partial Differential Equations and Applications, Publication Committee Member, 2017 - Continues

MAYFEB Journal of Mathematics, Publication Committee Member, 2016 - Continues

American Journal of Educational Research, Publication Committee Member, 2015 - Continues

Applied Mathematics and Physics, Publication Committee Member, 2015 - Continues

American Journal of Applied Mathematics and Statistics,, Publication Committee Member, 2015 - Continues

Mathematics Letters, First Editor, 2015 - Continues

Applied and Computational Mathematics, Publication Committee Member, 2014 - Continues

Pure and Applied Mathematics Journal, Special Issue Editor, 2014 - Continues

Pure and Applied Mathematics Journal, Publication Committee Member, 2014 - Continues

American Journal of Applied Mathematics, Publication Committee Member, 2014 - Continues

Applied and Computational Mathematics, Special Issue Editor, 2014 - Continues

Computational and Applied Mathematics Journal , Publication Committee Member, 2014 - Continues

Scientific, Association Organizations and Organizations Membership / Tasks

Member, 2015 - Continues

Member, 2014 - Continues

Scientific Refereeing

American Journal of Educational Research, Other Indexed Journal, April 2015

Asian Journal of Mathematics and Computer Research, Other Indexed Journal, March 2015

British Journal of Mathematics & Computer Science, Other Indexed Journal, March 2015

British Journal of Mathematics & Computer Science, Other Indexed Journal, March 2015

Pure and Applied Mathematics journal, Other Indexed Journal, February 2015

British Journal of Mathematics & Computer Science, Other Indexed Journal, December 2014

Applied and Computational Mathematics, Other Indexed Journal, December 2014

FIRAT UNIVERSITY TURKISH JOURNAL OF SCIENCE AND TECHNOLOGY, National Scientific Refreed Journal, November 2014

American Journal of Applied Mathematics, Other Indexed Journal, October 2014

Pure and Applied Mathematics Journal, Other Indexed Journal, September 2014

Applied and Computational Mathematics, Other Indexed Journal, August 2014

Invited Congress and Symposium Activities

9. Matematik Sempozyumu Sergi ve Şenlikleri, s.167-173 Trabzon, Attendee, Trabzon , Turkey, 2010 - 2010

AIMS' 8th international Conference on Dyn. Systems, Diff. Equations and applications., Session Moderator, Germany, 2010 - 2010

The 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Attendee,
Dresden,ALMANYA, Germany, 2010 - 2010

AIMS' Seventh international Conference on Dyn. Systems, Diff. Equations and applications, Session Moderator, Texas,
United States Of America, 2008 - 2008

II International Conf. "Science and Technology in XXI Century, Attendee, Tasşkent, ÖZBEKİSTAN, Uzbekistan, 2004 -
2004

Part. Diff. Equat., Proceed. Int. Conf, Attendee, Tashkent, ÖZBEKİSTAN, Uzbekistan, 2004 - 2004

Citations

Total Citations (WOS):34

h-index (WOS):4

Scholarships

Öğretim Üyelerine Verilen Destekler, YOK, 2012 - 2012