Res. Asst. Meltem UZUN

Personal Information

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 2014 - Continues
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 2011 - 2014
Undergraduate, Dokuz Eylul University, Fen Fakültesi, Matematik, Turkey 2006 - 2011

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, Pedagojik Formasyon Eğitimi Sertifika Programı, Dokuz Eylül Üniversitesi, 2012

Dissertations

Postgraduate, High Order Stable Difference Schemes for Multipoint Nonlocal Boundary Value Problems for Hyperbolic Equations, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, 2014

Research Areas

Mathematics, Differential Equations, Functional Analysis, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2014 - Continues
Research Assistant, Uludağ Üniversitesi, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Weak solvability of the unconditionally stable difference scheme for the coupled sine-Gordon system**
YILDIRIM Ö., UZUN M.
NONLINEAR ANALYSIS-MODELLING AND CONTROL, vol.25, no.6, pp.997-1014, 2020 (SCI-Expanded)

II. **On Fourth-Order Stable Difference Scheme for Hyperbolic Multipoint NBVP**
Yıldırım Ö., Uzun M.
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.38, pp.1305-1324, 2017 (SCI-Expanded)

III. **On the numerical solutions of high order stable difference schemes for the hyperbolic multipoint nonlocal boundary value problems**
Yıldırım Ö., Uzun M.
APPLIED MATHEMATICS AND COMPUTATION, vol.254, pp.210-218, 2015 (SCI-Expanded)

IV. **On Third Order Stable Difference Scheme for Hyperbolic Multipoint Nonlocal Boundary Value Problem**
Yıldırım Ö., Uzun M.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2015 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **NUMERICAL ANALYSIS OF THE NONLINEAR WAVE SYSTEMS BY A NOVEL ITERATIVE METHOD**
YILDIRIM Ö., UZUN M.
ICFAS 2020, 06 October 2020

II. **On Convergence of Second Order of AccuracyFinite-Dierence Scheme for Coupled sine-GordonEquations**
YILDIRIM Ö., UZUN M.
CMMSE'20, ROTA CADIZ, Spain, 3 - 09 July 2020

III. **On unique solvability of nonlinear coupled systems**
Yıldırım Ö., Uzun M.
International Conference of Mathematical Sciences (ICMS 2019), İstanbul, Turkey, 4 - 08 September 2019, pp.1-10

IV. **On Weak Solvability of Coupled Systems**
Yıldırım Ö., Uzun M.
3. International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 3 - 05 July 2019

V. **A COMPOSITE NUMERICAL METHOD ON THE SOLUTION OF COUPLED SINE-GORDON EQUATIONS BASED ON THE FIXED POINT THEORY**
Yıldırım Ö., Uzun M.
Banach Spaces and their Applications, Lviv, Ukraine, 26 - 29 June 2019

VI. **ON GENERALIZED SOLUTIONS OF NONLINEAR SYSTEMS**
Yıldırım Ö., Uzun M.
6th International Congress on Fundamental and Applied Sciences 2019 (ICFAS2019), Tirane, Albania, 18 - 20 June 2019, pp.146

VII. **A Note on the Numerical Solution of Coupled Klein-Gordon Equations**
YILDIRIM Ö., UZUN M.
3rd International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 4 - 08 September 2019, vol.2183

VIII. **On the numerical solution of nonlinear system of coupled sine-Gordon equations**
Yıldırım Ö., Uzun M.
the Fourth International Conference on Analysis and Applied Mathematics, ICAAM 2018, Mersin, Turkey, 6 - 09 September 2018, pp.79

IX. **NUMERICAL SOLUTION OF HYPERBOLIC EQUATIONS WITH NONLOCAL BVPs**
Yıldırım Ö., Uzun M.

5th International Congress on Fundamental and Applied Sciences 2018 (ICFAS2018), Skopje, Macedonia, 18 - 22 June 2018, pp.212

X. **On the Numerical Solution of Nonlinear System of Coupled Sine-Gordon Equations**
Yıldırım Ö., Uzun M., Altun O.
4th International Conference on Analysis and Applied Mathematics (ICAAM), Mersin, Turkey, 6 - 09 September 2018, vol.1997

XI. **Unique Solvability Results on Boundary Value Problems for Semilinear Hyperbolic Equations**
Yıldırım Ö., Uzun M.
International Congress on Fundamental and Applied Sciences, Sarajevo, Bosnia And Herzegovina, 21 - 25 August 2017, pp.78

XII. **A Note on the Exact Solution Methods for Nonlinear PDEs**
Yıldırım Ö., Uzun M.
International Congress on Fundamental and Applied Sciences, Sarajevo, Bosnia And Herzegovina, 21 - 25 August 2017, pp.78

XIII. **On the Existence and Uniqueness of Solutions to Nonlinear Wave Equations**
Yıldırım Ö., Uzun M.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.549-550

XIV. **On the analytical solution methods for sine Gordon equation**
Yıldırım Ö., Uzun M.
ICAAM 2016, Almati, Kazakhstan, 7 - 10 September 2016

XV. **On the numerical solution of sine Gordon equation**
Yıldırım Ö., Uzun M.
ICAAM 2016, Almati, Kazakhstan, 7 - 10 September 2016

XVI. **On stable difference schemes for multipoint NBVP of the hyperbolic type**
Yıldırım Ö., Uzun M.
International Congress on Fundamental and Applied Sciences (ICFAS 2016), İstanbul, Turkey, 22 - 26 August 2016

XVII. **On Stability of Fourth Order of Accuracy Difference Scheme for Hyperbolic Multipoint NBVP with Neumann Conditions**
Yıldırım Ö., Uzun M.
International Conference on Mathematics and Mathematics Education (ICMME 2016), Elazığ, Turkey, 12 - 15 May 2016, pp.392-393

XVIII. **On stability of difference schemes for hyperbolic multipoint NBVP with Neumann conditions**
YILDIRIM Ö., UZUN M.
3rd International Conference on Analysis and Applied Mathematics (ICAAM), Almaty, Kazakhstan, 7 - 10 September 2016, vol.1759

XIX. **Third order accurate stable difference scheme for the hyperbolic multipoint nbvp with Neumann conditions**
Yıldırım Ö., Uzun M.
International Conference on Advancements in Mathematical Sciences (AMS Conference), Antalya, Turkey, 5 - 07 November 2015, pp.232

XX. **On stability of high order difference schemes for hyperbolic multipoint nonlocal boundary value problem**
Yıldırım Ö., Uzun M.
AMS- EMS- SPM International Meeting 2015, Porto, Portugal, 10 - 13 June 2015, pp.75

XXI. **A Note on the Numerical Solution of Multipoint Nonlocal Boundary Value Hyperbolic Problem with Neumann Conditions**
YILDIRIM Ö., UZUN M.
ICAAMM15, 8 - 12 June 2015, pp.200

XXII. **On Third Order of Accuracy Stable Difference Scheme for Multipoint NBVP of the Hyperbolic Type**
YILDIRIM Ö., UZUN M.

ICAAM 2014, 11 - 13 September 2014
XXIII. **On fourth order of accuracy stable difference scheme for multipoint nbvp of the hyperbolic type**
Yıldırım Ö., Uzun M.
ICAAM 2014, Simkent, Kazakhstan, 11 - 13 September 2014
XXIV. **High order of accuracy stable difference schemes for the approximate solution of the multipoint NBVP for the hyperbolic equation**
YILDIRIM Ö., UZUN M.
2nd International Conference on Analysis and Applied Mathematics (ICAAM), Shymkent, Kazakhstan, 11 - 13 September 2014, vol.1611, pp.305-309
XXV. **On a New Subclass of Meromorphic Harmonic Convex Functions**
UZUN M., Bostanci H., Ozturk M.
Geometric Function Theory and Applications - GFTA 2013, İstanbul, Turkey, 26 August 2013, pp.35

Supported Projects

YILDIRIM Ö., UZUN M., Project Supported by Higher Education Institutions, ON SOLVABILITY OF NONLINEAR COUPLED WAVE SYSTEMS ARISING IN DNA DYNAMICS (DNA Dinamiğinde Ortaya Çıkan Nonlineer Bağlı Dalga Denklem Sistemlerinin Çözülebilirliği Üzerine), 2016 - 2021

Metrics

Publication: 29
Citation (WoS): 22
Citation (Scopus): 50
H-Index (WoS): 3
H-Index (Scopus): 5

Congress and Symposium Activities

3. International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, Working Group, İstanbul, Turkey, 2019
6th International Congress on Fundamental and Applied Sciences (ICFAS2019), Working Group, Tirane, Albania, 2019
ICAAM 2018 Fourth International Conference on Analysis and Applied Mathematics, Working Group, Lefkoşa, Cyprus (Kktc), 2018
5th International Congress on Fundamental and Applied Sciences (ICFAS2018), Working Group, Skopje, Macedonia, 2018
İstanbul Üniversitesi Fen Fakültesi Öğrenci Matematik Çalıştayı IV, Working Group, İstanbul, Turkey, 2018
International Congress on Fundamental and Applied Sciences (ICFAS2017), Working Group, Sarajevo, Bosnia And Herzegovina, 2017
International Conference on Mathematics and Mathematics Education (ICMME 2017), Working Group, Şanlıurfa, Turkey, 2017
İstanbul Üniversitesi Fen Fakültesi Öğrenci Matematik Çalıştayı III, Working Group, İstanbul, Turkey, 2017
ICAAM 2016 Third International Conference on Analysis and Applied Mathematics, Working Group, Almati, Kazakhstan, 2016
International Congress on Fundamental and Applied Sciences (ICFAS2016) , Working Group, İstanbul, Turkey, 2016
TÜZDER IV. Dahiler ve Üstün Zekalılar Günü, Working Group, İstanbul, Turkey, 2016
International Conference on Mathematics and Mathematics Education (ICMME 2016), Working Group, Elazığ, Turkey, 2016

İstanbul Üniversitesi Fen Fakültesi Öğrenci Matematik Çalıştayı, Working Group, İstanbul, Turkey, 2016

International Conference on Advancements in Mathematical Sciences (AMS Conference), Working Group, Antalya, Turkey, 2015

ICAAMM 2015 International Conference on Applied Analysis and Mathematical Modeling, Working Group, İstanbul, Turkey, 2015

ICAAM 2014 Second International Conference on Analysis and Applied Mathematics, Working Group, Simkent, Kazakhstan, 2014

Geometric Function Theory and Applications - GFTA 2013, Working Group, İstanbul, Turkey, 2013