

Res. Asst. Meltem UZUN

Personal Information

Office Phone: [+90 212 383 4378](tel:+902123834378)

Web: <http://avesis.yildiz.edu.tr/meltemu/>

Education Information

Doctorate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, Turkey 2014 - Continues

Postgraduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, Turkey 2011 - 2014

Undergraduate, Dokuz Eylül Üniversitesi, Fen Fakültesi, Matematik, Turkey 2006 - 2011

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, Pedagogik 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, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2014 - Continues

Research Assistant, Uludağ Üniversitesi, 2013 - 2014

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

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)

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 Accuracy Finite-Difference Scheme for Coupled sine-Gordon Equations**
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

Edit 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

International Conference on Mathematics and Mathematics Education (ICMME 2016), Working Group, Elazığ, Turkey, 2016

TÜZDER IV. Dahiler ve Üstün Zekalılar Günü, Working Group, İstanbul, 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

Citations

Total Citations (WOS):20

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