

Asst. Prof. Asuman ZEYTİNOĞLU

Personal Information

Email: asumanzeytinoglu@sdu.edu.tr

Web: <https://avesis.sdu.edu.tr/asumanzeytinoglu>

Address: Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Matematik Bölümü Doğu Kampüsü ISPARTA

Education Information

Doctorate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2010 - 2017

Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2008 - 2010

Undergraduate, Pamukkale University, Faculty Of Arts And Sciences, Matematik, Turkey 2003 - 2007

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Hesaplamalı Akışkanlar Dinamiğinde Bir Hibrit Yaklaşım, Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2017

Postgraduate, Burgers Denklemlerinin Bazı Yaklaşık Çözümleri, Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2010

Research Areas

Mathematics, Differential Equations, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik , 2017 - Continues

Research Assistant, Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik, 2008 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Numerical Simulations of Shock Wave Propagating by a Hybrid Approximation Based on High-Order Finite Difference Schemes**
ZEYTİNOĞLU A., SARI M., Allahverdiev B. P.
ACTA PHYSICA POLONICA A, vol.133, no.1, pp.140-151, 2018 (Journal Indexed in SCI)
- II. **High-Order Finite Difference Schemes for Numerical Solutions of the Generalized Burgers-Huxley Equation**
Sari M., Gurarslan G., ZEYTİNOĞLU A.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.27, no.5, pp.1313-1326, 2011 (Journal

Indexed in SCI)

- III. **High-order finite difference schemes for the solution of the generalized Burgers-Fisher equation**
Sari M., Gurarslan G., ZEYTIÑOĞLU A.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, vol.27, no.8, pp.1296-1308, 2011 (Journal Indexed in SCI)
- IV. **HIGH-ORDER FINITE DIFFERENCE SCHEMES FOR SOLVING THE ADVECTION-DIFFUSION EQUATION**
Sari M., Gurarslan G., ZEYTIÑOĞLU A.
MATHEMATICAL & COMPUTATIONAL APPLICATIONS, vol.15, no.3, pp.449-460, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **A hybrid approach for the regularized long wave-Burgers equation**
ZEYTIÑOĞLU A., SARI M., ALLAHVERDİEV B. P.
An International Journal of Optimization and Control: Theories Applications (IJOCTA), vol.8, no.1, pp.8-16, 2018
(Refereed Journals of Other Institutions)
- II. **Effects of Human and External Factors on Traffic Accidents**
SARI M., Mutlu Ö., ZEYTIÑOĞLU A.
Buletinul Universitatii Petrol-Gaze din Ploiesti, Seria Matematica Informatica Fizica, vol.61, no.1, pp.9-17, 2009
(International Refereed University Journal)

Books & Book Chapters

- I. **Some Difference Algorithms for Nonlinear Klein-Gordon Equations**
ZEYTIÑOĞLU A., SARI M.
in: Lecture Notes in Computer Science book series (LNCS, volume 11189) - Numerical Methods and Applications, Nikolov Geno, Kolkovska Natalia, Georgiev Krassimir, Editor, Springer, pp.491-498, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **New Algorithms for the Sine-Gordon Equation**
ZEYTIÑOĞLU A., SARI M.
Ninth International Conference on Numerical Methods and Applications, NMA'18, Borovets, Bulgaria, 20 - 24 August 2018, pp.81
- II. **Some Difference Algorithms for Nonlinear Klein-Gordon Equations**
ZEYTIÑOĞLU A., SARI M.
Ninth International Conference on Numerical Methods and Applications, NMA'18, Borovets, Bulgaria, 20 - 24 August 2018, pp.81-82
- III. **Numerical Solutions of the Nonlinear Klein-Gordon Equation through a Compact Finite Difference Scheme**
ZEYTIÑOĞLU A.
ICAME'2018 - International Conference on Applied Mathematics in Engineering, Balikesir, Turkey, 27 - 29 June 2018, pp.82
- IV. **High order schemes for the Klein Gordon equations**
ZEYTIÑOĞLU A., SARI M.
ICJMS 2015-The 28th International Conference of The Jangjeon Mathematical Society, Antalya, Turkey, 15 - 19 May 2015, pp.59

Scientific Refereeing

Journal of Computer Science & Computational Mathematics, Other Indexed Journal, January 2016

Edit Congress and Symposium Activities

NM&A' 2018 - Ninth International Conference on Numerical Methods and Applications, Attendee, Sofija, Bulgaria, 2018

ICAME'2018 - International Conference on Applied Mathematics in Engineering, Attendee, Balikesir, Turkey, 2018

ICJMS'2015 - The 28th International Conference of The Jangjeon Mathematical Society, Attendee, Antalya, Turkey, 2015

Citations

Total Citations (WOS):37

h-index (WOS):3