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Fen-Edebiyat Fakültesi Matematik
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International Researcher IDs
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Education Information

Post Doctorate, Texas A&M
University-Kingsville, Matematik,
United States Of America 2012 -
2013
Doctorate, Yildiz Technical
University, Faculty Of Arts &
Science, Department Of
Mathemeatics, Turkey 2004 - 2010
Postgraduate, Yildiz Technical
University, Faculty Of Arts &
Science, Department Of
Mathemeatics, Turkey 2001 - 2004
Undergraduate, Yildiz Technical
University, Faculty Of Arts &
Science, Department Of
Mathemeatics, Turkey 1997 - 2001

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı fark denklemlerinin kararlılığı, periyodikliği ve sınırlılığı üzerine, Yildiz Technical University, Graduate School
of Natural and Applied Sciences, 2010
Postgraduate, Bir kısmi denklemler takımına ait non-lineer sınır değer problemlerinin sonlu elemanlar yöntemi ile incelenmesi,

Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2004

Research Areas

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

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2018 - Continues
Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2012 - 2018
Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2010 - 2012
Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2001 - 2010

Academic and Administrative Experience

Adaptation/Exemption Committee Member, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2022 - Continues
Exam Program Preparation Commission Member, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2022 - Continues

Courses

Partial differential equations and applications, Undergraduate, 2018 - 2019
Differential Equations, Undergraduate, 2018 - 2019
Lineer Cebir, Undergraduate, 2018 - 2019
İntegral Denklemlere Giriş, Undergraduate, 2016 - 2017
Matematik II, Undergraduate, 2016 - 2017
Introduction to Fuzzy Logic, Undergraduate, 2017 - 2018
İntegral Denklemler, Postgraduate, 2016 - 2017
Diferansiyel Denklemler, Undergraduate, 2016 - 2017
Matematik I, Undergraduate, 2016 - 2017
Matematik Analiz III, Undergraduate, 2016 - 2017

Jury Memberships

Doctoral Examination, Doktora Yeterlik Sınavı, Trakya Üniversitesi, December, 2018
Post Graduate, Tez Savunma Jürisi, Mustafa Kemal Üniversitesi, November, 2016

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Optical solitons of stochastic perturbed Radhakrishnan-Kundu-Lakshmanan model with Kerr law of self-phase-modulation**
    ALBAYRAK P., ÖZIŞIK M., SEÇER A., BAYRAM M., Ebru Das S. E.
    Modern Physics Letters B, vol.38, no.15, 2024 (SCI-Expanded)
II. **Optical solitons of a cubic-quartic nonlinear Schrödinger equation with parabolic law nonlinearity in optical metamaterials**
    Das S. E., Ozisik M., Bayram M., Secer A., Albayrak P.
    International Journal of Geometric Methods in Modern Physics, vol.20, no.13, 2023 (SCI-Expanded)

III. **Optical solitons of (2+1)-dimensional Biswas–Milovic model with Kerr and parabolic laws of self-phase modulation**
Das S. E., Ozisik M., Secer A., Bayram M., Albayrak P.
Optik, vol.288, 2023 (SCI-Expanded)

IV. **RETRIEVAL OF SOLITON SOLUTIONS OF (1+1)-DIMENSIONAL NON-LINEAR TELEGRAPH EQUATION**
DAŞ S. E.
Thermal Science, vol.26, no.SpecialIssue2, 2022 (SCI-Expanded)

V. **A SOLUTION METHOD FOR INTEGRO-DIFFERENTIAL EQUATIONS OF CONFORMABLE FRACTIONAL DERIVATIVE**
Bayram M., Hatipoğlu V. F., Alkan S., Daş S. E.
THERMAL SCIENCE, vol.22, 2018 (SCI-Expanded)

VI. **Dynamics of a nonlinear rational difference equation**
Daş S. E.
Hacettepe Journal of Mathematics and Statistics, vol.42, no.1, pp.9-14, 2013 (SCI-Expanded)

Articles Published in Other Journals

I. **Pure-Cubic Optical Solitons and Stability Analysis with Kerr Law Nonlinearity**
Albayrak P., Ozisik M., Bayram M., Secer A., Das S. E., Biswas A., Yıldırım Y., Mirzazadeh M., Asiri A.
Contemporary Mathematics (Singapore), vol.4, no.3, pp.530-548, 2023 (Scopus)

II. **Beta Kesirli Türevli Sınır Değer Problemlerinin Yaklaşık Çözümleri**
Daş S. E.
International journal of advances in engineering and pure sciences (Online), vol.30, no.4, pp.440-448, 2018 (Peer-Reviewed Journal)

III. **Approximation by Sinc-Galerkin method for a class of fractional boundary value problems**
DAŞ S. E.
New Trends in Mathematical Sciences, no.6, pp.114-122, 2018 (Peer-Reviewed Journal)

IV. **Qualitative Behavior of a fourth-order rational difference equation**
DAŞ S. E., Bayram M.
International Journal of Contemporary Mathematical Sciences, vol.6, no.6, 2011 (Peer-Reviewed Journal)

V. **On a System of Rational Difference Equations**
Daş S. E., Bayram M.
World Applied Science Journal, vol.10, no.11, pp.1306-1312, 2010 (Peer-Reviewed Journal)

VI. **Global asymptotic stability of a nonlinear recursive sequence**
DAŞ S. E., Bayram M.
International Mathematical Forum, vol.5, no.22, pp.1083-1089, 2010 (Peer-Reviewed Journal)

VII. **On The Positive Solutions of The Equation System**
DAŞ S. E., Bayram M.
Applied Mathematical Sciences, vol.4, no.17, pp.817-821, 2010 (Peer-Reviewed Journal)

VIII. **Global Asymptotic Stability for a Fourth order Rational Difference Equation**
DAŞ S. E.
International Mathematical Forum, vol.5, pp.1591-1596, 2010 (Peer-Reviewed Journal)

IX. **Fuzzy Grup ve Fuzzy İdealler Üzerine**
DAŞ S. E., ÖZKAN A., ÖZKAN E. M.
Yıldız Teknik Üniversitesi Dergisi, 2003 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Katlı İntegraller**
Daş S. E.
in: Thomas Calculus, Mustafa Bayram, Editor, Pearson Education , İstanbul, pp.1067-1143, 2011

II. **5. Integration**
Daş S. E.
in: Thomas Calculus , Mustafa Bayram, Editor, Pearson Education , İstanbul, pp.325-396, 2011

Refereed Congress / Symposium Publications in Proceedings

I. **A numerical method based on fractional legendre collocation method for solving fractional initial value problems**
Daş S. E., Ayhan S.
International Conference on Applied Analysis and Mathematical Modelling , İstanbul, Turkey, 10 March 2019, pp.168

II. **Haar Wavelet Collocation Method for the solution of Logistic growth in population**
Daş S. E., Hatipoğlu V. F., Alkan S.
8th International Conference on Applied Analysis and MAthematical Modelling, İstanbul, Turkey, 10 March 2019, pp.6-11

III. **Haar wavelet solution of second painleve equation**
Daş S. E., Hatipoğlu V. F., Alkan S.
8th International Conference on Applied Analysis and MAthematical Modelling, İstanbul, Turkey, 10 March 2019, pp.242-246

IV. **Comparison of Sinc methods on the fractional differential equations with comformable derivatives**
Daş S. E., Hatipoğlu V. F., Alkan S.
International conference on applied analysis and mathematical modelling, İstanbul, Turkey, 10 March 2019, pp.47-53

V. **Solutions of a Class of Fractional Order Differential Equations by Using Haar WAvelet Collocation Method**
DAŞ S. E., Bağcı O.
Fourth International Conference on Analysis and Applied Mathematics (ICAAM 2018), Bafra, Cyprus (Kktc), 06 September 2018, pp.1

VI. **Legendre Matrix Method for Solving a Class of Integral Equations**
DAŞ S. E., Şentürk E.
7th International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 20 June 2018, pp.179

VII. **Approximation Analytical Solution of Fractional Differential-Algebraic Equations by Natural Transform Method**
DAŞ S. E., İbiş B.
4th International Conference on Pure and Applied Sciences:Renewable Energies, İstanbul, Turkey, 23 November 2017, pp.23

VIII. **Numerical Solutions of Fractional Differential Equations by Using Sinc-Galerkin Method**
DAŞ S. E., Alkan S., Hatipoğlu V. F.
Recent Trends in Pure and Applied Mathematics, Alba Lulia, Romania, 31 July 2017, pp.50

IX. **On the Approximate Solutions of Systems of Fractional Differential Equations**
DAŞ S. E., Alkan S., Hatipoğlu V. F.
Recent Trends in Pure and Applied Mathematics, Alba Lulia, Romania, 31 July 2017, pp.51

X. **A Numerical Scheme for Solving Nonlinear Fractional Differential Equations in the Conformable-Derivative Sense**
DAŞ S. E., Alkan S., Hatipoğlu V. F.
13th AlgebraicHyperstructures and its Applications Conference, İstanbul, Turkey, 24 July 2017, pp.1

XI. **Approximate Solution of Systems of Fractioanl Integro-Differential Equation**
DAŞ S. E., Alkan S., Hatipoğlu V. F.
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 03 July 2017, pp.88

XII. **A SINC-COLLOCATION METHOD FOR SOLVING FRACTIONAL ORDER INTEGRO-DIFFERENTIAL EQUATIONS**
DAŞ S. E., Alkan S., Hatipoğlu V. F.
3rd International Conference on Pure and Applied Sciences, Dubai, United Arab Emirates, 02 February 2017, pp.10

XIII. **Comparison Theorems for Linearization of Nonlinear Delay Equations**
DAŞ S. E., Agarwal R. P.
International Conference on Applied Analysis and Mathematical Modeling, 01 June 2013

XIV. **Some Properties of a Nonlinear Difference Equation**

DAŞ S. E., Bayram M.

International Conference on Applied Analysis and Algebra, 01 June 2012

XV. **Dynamics of a Nonlinear Difference Equation**

DAŞ S. E., Bayram M.

International Conference on Applied Analysis and Algebra, 01 July 2011

XVI. **Application of the Differential Transform Methods to Approximate Solution for Nonlinear Differential-Difference Equations System**

Daş S. E., Bayram M.

International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 29 June 2011, pp.196

XVII. **Dynamics of the Rational Difference Equation**

DAŞ S. E., Bayram M.

International Conference on Mathematical Sciences, 01 November 2010

Supported Projects

DAŞ S. E., Bağcı O., Project Supported by Higher Education Institutions, Numerical Solutions of Fractional Differential Equations, 2018 - 2019

Scientific Refereeing

new trends in Mathematical Sciences, Other Indexed Journal, December 2017

Metrics

Publication: 36
Citation (WoS): 12
Citation (Scopus): 26
H-Index (WoS): 2
H-Index (Scopus): 4

Non Academic Experience

Texas A&M University