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DAŞ



### Personal Information

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Fen-Edebiyat Fakültesi Matematik  
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### International Researcher IDs

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ScopusID: 57202030337

Yoksis Researcher ID: 189648

### 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  
Mathematics, Turkey 2004 - 2010

Postgraduate, Yildiz Technical  
University, Faculty Of Arts &  
Science, Department Of  
Mathematics, Turkey 2001 - 2004

Undergraduate, Yildiz Technical  
University, Faculty Of Arts &  
Science, Department Of  
Mathematics, 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 kısmı 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 Mathematics, 2018 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2012 - 2018

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2010 - 2012

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2001 - 2010

## Academic and Administrative Experience

Adaptation/Exemption Committee Member, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2022 - Continues

Exam Program Preparation Commission Member, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 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 Snavı, 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 a cubic-quartic nonlinear Schrodinger 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.21, pp.101142, 2023 (SCI-Expanded)
- II. **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)
- III. **Optical solitons of stochastic perturbed Radhakrishnan-Kundu-Lakshmanan model with Kerr law of self-phase-modulation**  
ALBAYRAK P., ÖZİŞİK M., SEÇER A., BAYRAM M., Ebru Das S. E.  
Modern Physics Letters B, 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.  
Haceteppe 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 conformable 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): 22

H-Index (WoS): 2

H-Index (Scopus): 3

## **Non Academic Experience**

Texas A&M University