

## AYDIN SEÇER

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### Education

Doctorate  
2006 - 2011

Ataturk University, Fen Fakültesi, Matematik, Turkey

Postgraduate  
2003 - 2006

Ataturk University, Uygulamalı Matematik, Turkey

Undergraduate  
1997 - 2001

Ataturk University, Fen Fakültesi, Turkey

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

IT, Milestone Camera Surveillance Management, Milcestone INC., 2009

IT, Yazılım Uzmanlığı Üstün Başarı Sertifikası, BİLGE ADAM, 2007

IT, CISCO Networking, Atatürk Üniversitesi, 2002

## Dissertations

Doctorate, Ontology Mapping Using Bipartite GRAPH, Ataturk University, 2012

Postgraduate, Lineer Kodların Bilgisayar Desteđi İle Hesaplanması, Ataturk University, Matematik/Uygulamalı Matematik, 2006

## Academic Titles / Tasks

Professor 2019 - Continues	Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering
Associate Professor 2014 - 2019	Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering
Assistant Professor 2011 - 2014	Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering
Research Assistant 2003 - 2008	Ataturk University, Matematik Bölümü

## Supported Projects

- ÖZİŞİK M., ESEN H., ÖNDER İ., ÇINAR M., SEÇER A., ÖZDEMİR N., BAYRAM M., ÇAKICIOĞLU H., DURMUŞ S., Project Supported by Higher Education Institutions, Doğrusal olmayan Schrödinger denklemi/pertürbe doğrusal olmayan Schrödinger denklemi ve bu denklemlerin farklı formlarına ait saf üçlü-dörtlü optik soliton çözümlerinin araştırılması, 2023 - 2024
- SEÇER A., ÖZİŞİK M., ÇINAR M., BAYRAM M., ÖZDEMİR N., DURMUŞ S., ÇAKICIOĞLU H., ESEN H., ÖNDER İ., Project Supported by Higher Education Institutions, Grup Hız Dispersiyonu Yokluğunda Saf Üçlü-Dörtlü Doğrusal Olmayan Schrödinger Denkleminin Stokastik Modeli ve Optik Soliton Çözümlerinin Elde Edilmesi, 2023 - 2024
- ÖZİŞİK M., DURMUŞ S., ESEN H., ÖNDER İ., ÇAKICIOĞLU H., SEÇER A., BAYRAM M., ÇINAR M., ÖZDEMİR N., Project Supported by Higher Education Institutions, OPTİK SOLİTON İLETİMİNDE KERR DOĞRUSAL OLMAYAN YASASI VE GÜRÜLTÜ ETKİSİNİN DOĞRUSAL OLMAYAN SCHRÖDİNGER- HİROTA MODELİ ÜZERİNDE İNCELENMESİ, 2023 - 2024
- ÇINAR M., DURMUŞ S., ESEN H., BAYRAM M., ÇAKICIOĞLU H., ÖNDER İ., SEÇER A., ÖZİŞİK M., ÖZDEMİR N., Project Supported by Higher Education Institutions, Optik Ortamlarda Farklı Doğrusal Olmayan Yapılara Sahip Tedirgin Doğrusal Olmayan Schrödinger Denklemi ve Optik Soliton Çözümleri, 2023 - 2024
- ÖZİŞİK M., ESEN H., BAYRAM M., ÖZDEMİR N., SEÇER A., ÇINAR M., ÖNDER İ., Project Supported by Higher Education Institutions, Optik fiberlerde soliton iletiminde düşük kromatik dağılım sayısı sorununun çözümüne dair SchrödingerHirota ve kübikkuartik FokasLenells modelleri üzerinde bazı optik soliton çözümlerinin incelenmesi, 2022 - 2023
- ÖZİŞİK M., ÖNDER İ., BAYRAM M., ÇINAR M., SEÇER A., ÖZDEMİR N., ESEN H., Project Supported by Higher Education Institutions, Optik fiberlerde yüksek mertebeden doğrusal olmayan Schrödinger denkleminin Kudryashov doğrusal olmayan kırılma indisi ile ilgili optik soliton çözümlerinin incelenmesi, 2022 - 2023
- SEÇER A., ÖZİŞİK M., ÇINAR M., ÖZDEMİR N., BAYRAM M., Project Supported by Higher Education Institutions, Kesirli Mertebeden Peyrard-Bishop DNA dinamik denkleminin Analitik Çözümlerinin İncelenmesi, 2022 - 2023
- Çınar M., Seçer A., Project Supported by Higher Education Institutions, Kesirli Mertebeden Kısmi Diferansiyel Denklemlerinin Yeni Analitik Çözümleri, 2021 - 2023

9. SEÇER A., ÖZDEMİR N., Project Supported by Higher Education Institutions, Kısmi Diferansiyel Denklemlerin Sayısal Çözümleri için Dalgacık Bazlı Galerkin ve Sıralama Metotları, 2020 - 2021
10. SEÇER A., SAĞDIÇ O., Project Supported by Higher Education Institutions, Kompleks gıda sistemlerinin bazı fiziksel özelliklerinin optimizasyonu ve modellenmesinde yüzey tepki metodu ve bulanık mantık sistemlerinin kullanımı ve tanımlayıcı matematiksel simülasyon fonksiyonlarının geliştirilmesi, 2012 - 2018
11. SEÇER A., SAĞDIÇ O., Project Supported by Higher Education Institutions, Doğrusal olmayan davranış gösteren gıda sistemlerinin yatışkan faz, dinamik titreşimli kayma ve sürünme toparlanması özelliklerinin optimizasyonu ve modellenmesinde yüzey tepki metodunun kullanımı ve tanımlayıcı matematiksel simülasyon fonksiyonlarının geliştirilmesi, 2012 - 2018
12. SEÇER A., Project Supported by Other Private Institutions, MOBISAY-RFID GERÇEK ZAMANLI SAYIM SİSTEMİ, 2016 - 2017
13. SEÇER A., Project Supported by Other Official Institutions, TARİHİ ESERLERİN RFID(RADYO FREKANSI) TEKNOLOJİSİ İLE SAYIMI ve TAKİBİ, 2015 - 2016
14. SEÇER A., Project Supported by Other Official Institutions, Elektronik Doküman Yönetim Sistemi (EDYS), 2014 - 2015
15. SEÇER A., Milli Saraylar Web Tabanlı Elektronik bilet satış modülü (Komple Yapımı), 2011 - 2011
16. SEÇER A., TBMM ve Milli Saraylar RFID teknolojisi ile demirbaş sayım sistemi(Yazılım dahil geliştirilmesi), 2011 - 2011
17. SEÇER A., Milli saraylar konukevleri IP Tabanlı call center yazılımı(Komple Geliştirilmesi), 2011 - 2011
18. SEÇER A., Milli Saraylar Web Portalı www.millisaraylar.gov.tr (komple yapımı), 2011 - 2011
19. SEÇER A., Bina Envanteri Sistemi, 2009 - 2011
20. SEÇER A., Milli Saraylar, Başkanlık Randevu sistemi yazılımı (Komple Yapımı), 2010 - 2010
21. SEÇER A., Kültür Bakanlığı Bilgi Paylaşım Web Servisi (Dublin Core Metadata) (Komple Yapımı), 2010 - 2010
22. SEÇER A., Milli Saraylar Anlık Mesaj Sistemi (Komple Yapımı), 2010 - 2010
23. SEÇER A., TBMM ve Milli Saraylar personel izin sistemi (Komple Yapımı), 2009 - 2010
24. SEÇER A., Milli Saraylar Rezervasyonlu Bilet Sistemi Otomasyonu (Komple Yapımı), 2009 - 2010
25. SEÇER A., Project Supported by Other Official Institutions, Milli Saraylar Socket Tabanlı Kimlik Kartlı- mesai takip yazılımı (Komple Yapımı), 2009 - 2010
26. SEÇER A., Milli Saraylar .Net Tabanlı Kültürel Envanter Otomasyonun Geliştirilmesi (Komple Yapımı), 2008 - 2010
27. SEÇER A., Project Supported by Other Official Institutions, Milli Saraylar Tarihi Envanter Ayniyat Programı (Komple Yapımı), 2008 - 2010
28. SEÇER A., Milli Saraylar Ajax Tabanlı Analitik Bütçe Yazılımı (Komple Yapımı), 2009 - 2009
29. SEÇER A., Elektronik ziyaretçi bilgilendirme panolarının yönetimi için IP tabanlı bir uygulama (Komple Yapımı), 2009 - 2009
30. SEÇER A., Milli Saraylar Kameralı yangın sezim sistemi, 2008 - 2009

## Awards

1. SEÇER A., Konferan Düzenleme Kurul Üyeliği Başarı Ödülü, Gelişim Üniversitesi, July 2017
2. SEÇER A., 2013-2014 Yılı Üniversite Genelinde En Çok Yayın Yapan YRD.DOÇ. İkincilik Ödülü, Yıldız Teknik Üniversitesi, February 2014
3. SEÇER A., 2012-2013 Yılı Üniversite Genelinde En Çok Yayın Yapan YRD.DOÇ. Birincilik Ödülü, Yıldız Teknik Üniversitesi, February 2013

## Jury Memberships

Academic Staff Examination, Akademik Yükseltme, Gelişim Üniversitesi, October, 2017

Academic Staff Examination, Araştırma Görevlisi Alımı Sınavı, Yıldız Teknik Üniversitesi, January, 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- Optical solitons of the (1+1)-dimensional perturbed complex Ginzburg–Landau equation having the Kerr law in the absence of the chromatic dispersion (in press)**  
Özdemir N., Seçer A., Özişik M., Bayram M., Yüce S.  
MODERN PHYSICS LETTERS B, vol.0, no.0, 2025 (SCI-Expanded)
- Stochastic higher-order Lakshmanan-Porsezian-Daniel model with cubic-quintic law nonlinearities in the presence of spatio-temporal and chromatic dispersion terms**  
SEÇER A., BAYRAM M., ÖZİŞİK M.  
Journal of Nonlinear Optical Physics and Materials, vol.34, no.4, 2025 (SCI-Expanded)
- Investigating broadly dispersive solitons in optical couplers for metamaterials with nonlinear cubic-quintic-septic dynamics and white noise using distinct integration approaches**  
Zayed E. M., El-Shater M., Murad M. A. S., SEÇER A., ÖZİŞİK M., Arnous A. H.  
Physics Letters, Section A: General, Atomic and Solid State Physics, vol.539, 2025 (SCI-Expanded)
- Perturbations of optical solitons in magneto-optic waveguides incorporating multiplicative white noise and sixth-order dispersion: a study of the Sasa–Satsuma equation**  
Zayed E. M. E., Alurrfi K. A. E., Hasek A. M. M., Arnous A. H., SEÇER A., ÖZİŞİK M., BAYRAM M., Kumar S.  
Pramana - Journal of Physics, vol.99, no.1, 2025 (SCI-Expanded)
- Retrieval of the optical soliton solutions of the perturbed Schrödinger–Hirota equation with generalized anti-cubic law nonlinearity having the spatio-temporal dispersion**  
ÖNDER İ., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Mathematical Methods in the Applied Sciences, vol.48, no.2, pp.2164-2178, 2025 (SCI-Expanded)
- Highly dispersive gap solitons with the Kaup–Newell in fiber Bragg grating with white noise effects**  
Zayed E. M., El-Shater M., Murad M. A. S., SEÇER A., ÖZİŞİK M., Arnous A. H.  
Modern Physics Letters B, 2025 (SCI-Expanded)
- Stochastic optical soliton perturbations in optical metamaterial couplers with parabolic nonlocal nonlinearity and advanced dispersion analysis**  
Zayed E. M. E., El-Shater M., Murad M. A. S., SEÇER A., ÖZİŞİK M., Arnous A. H.  
Journal of Nonlinear Optical Physics and Materials, 2025 (SCI-Expanded)
- Chirped and chirp-free optical soliton solutions for stochastic long-short wave resonant equations with multiplicative white noise**  
M. E. Zayed E., M. M. Saad B., Arnous A. H., SEÇER A., ESEN H., BAYRAM M.  
Physica Scripta, vol.100, no.1, 2025 (SCI-Expanded)
- Investigating the potential of optical metamaterials with highly dispersive solitons in twin couplers with stochastic perturbations and white noise effects**  
Zayed E. M., El-Horbaty M. M., El-Shater M., Arnous A. H., SEÇER A., ÖZİŞİK M., BAYRAM M., Elsherbeny A. M.  
Ain Shams Engineering Journal, vol.15, no.12, 2024 (SCI-Expanded)
- Investigating dispersive optical soliton dynamics in birefringent fibers with cubic nonlinearity through quintic-order concatenation model**  
Zayed E. M., Gepreel K. A., El-Horbaty M., Arnous A. H., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Optical Fiber Technology, vol.88, 2024 (SCI-Expanded)
- Optical soliton solution of the perturbed Fokas–Lenells equation having the cubic–quintic–septic law of self-phase modulation in the presence of chromatic and spatiotemporal dispersions**  
UÇAR M. F., ÖZİŞİK M., SEÇER A., BAYRAM M.  
European Physical Journal Plus, vol.139, no.10, 2024 (SCI-Expanded)
- Effects of white noise on straddle and soliton dynamics in birefringent fibers using the novel Kaup–Newell equation approach**  
Elsherbeny A. M., Arnous A. H., Nofal T. A., SEÇER A., ÖZİŞİK M.  
European Physical Journal Plus, vol.139, no.10, 2024 (SCI-Expanded)
- Investigation of soliton solutions to the Peyrard-Bishop-Deoxyribo-Nucleic-Acid dynamic model with beta-derivative**

SEÇER A., ÖZİŞİK M., BAYRAM M., ÖZDEMİR N., ÇINAR M.

Modern Physics Letters B, vol.38, no.27, 2024 (SCI-Expanded)

14. **Impact of high dispersion and cubic-quintic-septic nonlinearity on optical solitons perturbations of the resonant nonlinear Schrödinger equation with multiplicative white noise**  
Zayed E. M., El-Horbaty M. M., El-Shater M., Arnous A. H., SEÇER A., Shah N. A., Chung J. D.  
Ain Shams Engineering Journal, vol.15, no.9, 2024 (SCI-Expanded)
15. **On Stochastic Pure-Cubic Optical Soliton Solutions of Nonlinear Schrödinger Equation Having Power Law of Self-Phase Modulation**  
SEÇER A., ÖNDER İ., ESEN H., ÖZDEMİR N., ÇINAR M., Cakicioglu H., Durmus S., ÖZİŞİK M., BAYRAM M.  
International Journal of Theoretical Physics, vol.63, no.9, 2024 (SCI-Expanded)
16. **Optical soliton solutions of the nonlinear complex Ginzburg-Landau equation with the generalized quadratic-cubic law nonlinearity having the chromatic dispersion**  
ESEN H., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Physica Scripta, vol.99, no.9, 2024 (SCI-Expanded)
17. **Investigating dispersive optical solitons with the generalized stochastic perturbed Schrödinger–Hirota equation incorporating power-law nonlinearity and multiplicative white noise**  
Arnous A. H., Hashemi M. S., Elsherbey A. M., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Optik, vol.310, 2024 (SCI-Expanded)
18. **Optical soliton solution of the perturbed Biswas-Milovic equation having cubic-quintic-septic law nonlinearity in the presence of spatio-temporal and chromatic dispersion**  
ESEN H., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Physica Scripta, vol.99, no.8, 2024 (SCI-Expanded)
19. **Obtaining analytical solutions of (2+1)-dimensional nonlinear Zoomeron equation by using modified F-expansion and modified generalized Kudryashov methods**  
ÖZİŞİK M., SEÇER A., BAYRAM M.  
Engineering Computations (Swansea, Wales), vol.41, no.5, pp.1105-1120, 2024 (SCI-Expanded)
20. **On the analytical soliton solutions of (1 + 1)-dimensional complex coupled nonlinear Higgs field model**  
ÖZİŞİK M., BAYRAM M., SEÇER A., ÇINAR M.  
European Physical Journal: Special Topics, vol.233, no.6, pp.1331-1340, 2024 (SCI-Expanded)
21. **Examination of optical soliton solutions for the perturbed Schrödinger–Hirota equation with anti-cubic law in the presence of spatiotemporal dispersion**  
Durmus S. A., Özdemir N., Secer A., Ozisik M., Bayram M.  
European Physical Journal Plus, vol.139, no.6, 2024 (SCI-Expanded)
22. **On optical soliton solutions of the higher-order Lakshmanan-Porsezian-Daniel model having the cubic-quintic-septic law in the presence of spatio-temporal and chromatic dispersion**  
Özdemir N., Secer A., Ozisik M., Bayram M., Yuce S.  
Physica Scripta, vol.99, no.6, 2024 (SCI-Expanded)
23. **Optical soliton solutions of the perturbed fourth-order nonlinear Schrödinger-Hirota equation with parabolic law nonlinearity of self-phase modulation**  
Altun S., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Physica Scripta, vol.99, no.6, 2024 (SCI-Expanded)
24. **Optical soliton solutions of complex Ginzburg–Landau equation with triple power law and modulation instability**  
ÖNDER İ., ESEN H., ÖZİŞİK M., SEÇER A., BAYRAM M.  
Optical and Quantum Electronics, vol.56, no.6, 2024 (SCI-Expanded)
25. **On the soliton solutions to some system of complex coupled nonlinear models and the effect of the coupling coefficients**  
ÖZİŞİK M., ESEN H., SEÇER A., BAYRAM M.  
Optical and Quantum Electronics, vol.56, no.6, 2024 (SCI-Expanded)
26. **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, vol.38, no.15, 2024 (SCI-Expanded)

27. **A comprehensive analysis of Fokas–Lenells equation using Lie symmetry method**  
ÇINAR M., SEÇER A., Sajjad Hashemi M., ÖZİŞİK M., BAYRAM M.  
Mathematical Methods in the Applied Sciences, vol.47, no.7, pp.5819-5830, 2024 (SCI-Expanded)
28. **From Halley to Secant: Redefining root finding with memory-based methods including convergence and stability**  
Qureshi S., Soomro A., Naseem A., Gdawiec K., Argyros I. K., Alshaery A. A., SEÇER A.  
Mathematical Methods in the Applied Sciences, vol.47, no.7, pp.5509-5531, 2024 (SCI-Expanded)
29. **Bright soliton of the third-order nonlinear Schrödinger equation with power law of self-phase modulation in the absence of chromatic dispersion**  
Durmus S. A., ÖZDEMİR N., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Optical and Quantum Electronics, vol.56, no.5, 2024 (SCI-Expanded)
30. **Examining the  $(1 + 1)$ -dimensional Schrödinger–Hirota equation with Kerr effect under inter-modal dispersion using the invariance theory**  
ESEN H., SEÇER A., Hashemi M. S., ÖZİŞİK M., BAYRAM M.  
Optical and Quantum Electronics, vol.56, no.5, 2024 (SCI-Expanded)
31. **Soliton solutions of the improved perturbed nonlinear Schrödinger equation having parabolic law with non-local nonlinearity in the presence of chromatic and spatio-temporal dispersion terms**  
ESEN H., ÖNDER İ., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Physica Scripta, vol.99, no.4, 2024 (SCI-Expanded)
32. **High dispersion and cubic–quintic–septic–nonic nonlinearity effects on optical solitons in the complex Ginzburg–Landau equation of eighth-order with multiplicative white noise in the Itô sense**  
Zayed E. M., Arnous A. H., SEÇER A., ÖZİŞİK M., BAYRAM M., Shah N. A., Chung J. D.  
Results in Physics, vol.58, 2024 (SCI-Expanded)
33. **Investigation of the optical solitons for the Lakshmanan–Porsezian–Daniel equation having parabolic law**  
SEÇER A., Baleanu D.  
Optical and Quantum Electronics, vol.56, no.3, 2024 (SCI-Expanded)
34. **Davey–Stewartson system and investigation of the impacts of the nonlinearity**  
ESEN H., ÖNDER İ., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Optical and Quantum Electronics, vol.56, no.2, 2024 (SCI-Expanded)
35. **On obtaining optical solitons of the perturbed cubic-quartic model having the Kudryashov’s law of refractive index**  
ÇINAR M., Cakicioglu H., SEÇER A., ÖZİŞİK M., BAYRAM M.  
Optical and Quantum Electronics, vol.56, no.2, 2024 (SCI-Expanded)
36. **On soliton solutions for higher-order nonlinear Schrödinger equation with cubic-quintic-septic law**  
ESEN H., ÖNDER İ., SEÇER A., BAYRAM M.  
International Journal of Geometric Methods in Modern Physics, vol.21, no.2, 2024 (SCI-Expanded)
37. **Nonlinear complex generalized zakharov dynamical system inconformal sense utilizing new kudryashov method**  
SEÇER A., BAYRAM M., ÖZDEMİR N., ÖNDER İ., ESEN H., ÇINAR M., Aydın H.  
Physica Scripta, vol.99, no.2, 2024 (SCI-Expanded)
38. **Obtaining soliton solutions of the nonlinear  $(4+1)$ -dimensional Boiti–Leon–Manna–Pempinelli equation via two analytical techniques**  
ESEN H., SEÇER A., ÖZİŞİK M., Bayram M.  
International Journal of Modern Physics B, vol.38, no.1, 2024 (SCI-Expanded)
39. **On obtaining analytical soliton solutions of Drinfeld–Sokolov–Satsuma–Hirota equation via two efficient methods**  
Cakicioglu H., ÇINAR M., SEÇER A., ÖZİŞİK M., BAYRAM M.

- Physica Scripta, vol.99, no.1, 2024 (SCI-Expanded)
40. **Bright soliton of the perturbed Schrödinger–Hirota equation with cubic–quintic–septic law of self-phase modulation in the presence of spatiotemporal dispersion**  
ÖZDEMİR N., Altun S., SEÇER A., ÖZİŞİK M., BAYRAM M.  
European Physical Journal Plus, vol.139, no.1, 2024 (SCI-Expanded)
  41. **Retrieval of optical soliton solutions of stochastic perturbed Schrödinger-Hirota equation with Kerr law in the presence of spatio-temporal dispersion**  
ÖZİŞİK M., SEÇER A., BAYRAM M.  
Optical and Quantum Electronics, vol.56, no.1, 2024 (SCI-Expanded)
  42. **Revealing optical soliton solutions of Schrödinger equation having parabolic law and anti-cubic law with weakly nonlocal nonlinearity**  
Ozdemir N., Altun S., Secer A., Özışık M., Bayram M.  
Journal of Taibah University for Science, vol.18, no.1, 2024 (SCI-Expanded)
  43. **On the optical soliton solutions of the perturbed Fokas{Lenells equation having parabolic law of self-phase modulation in the presence of spatio-temporal dispersion**  
ÖNDER İ., ÖZİŞİK M., SEÇER A., BAYRAM M.  
Modern Physics Letters B, 2024 (SCI-Expanded)
  44. **Optical soliton solutions of the third-order nonlinear Schrödinger equation in the absence of chromatic dispersion**  
ÖZİŞİK M., SEÇER A., BAYRAM M.  
Modern Physics Letters B, 2024 (SCI-Expanded)
  45. **Optical solitons of the (1 + 1)-dimensional perturbed complex Ginzburg{Landau equation having the Kerr law in the absence of the chromatic dispersion**  
ÖZDEMİR N., SEÇER A., ÖZİŞİK M., BAYRAM M., YÜCE S.  
Modern Physics Letters B, 2024 (SCI-Expanded)
  46. **Optical solitons for the dispersive concatenation model with spatio-temporal dispersion having multiplicative white noise**  
Arnous A. H., Elsherbeny A. M., SEÇER A., ÖZİŞİK M., BAYRAM M., Shah N. A., Chung J. D.  
Results in Physics, vol.56, 2024 (SCI-Expanded)
  47. **Soliton solutions of time-fractional modified Korteweg-de-Vries Zakharov-Kuznetsov equation and modulation instability analysis**  
ÖNDER İ., SEÇER A., BAYRAM M.  
Physica Scripta, vol.99, no.1, 2024 (SCI-Expanded)
  48. **Bright soliton of Stochastic perturbed Biswas-Milovic equation with cubic-quintic-septic law having multiplicative white noise**  
ÖZDEMİR N., Altun S., ÖZİŞİK M., SEÇER A., BAYRAM M.  
Revista Mexicana de Fisica, vol.70, no.2, 2024 (SCI-Expanded)
  49. **Highly dispersive optical solitons in fiber Bragg gratings for stochastic Lakshmanan–Porsezian–Daniel equation with spatio-temporal dispersion and multiplicative white noise**  
Zayed E. M., Arnous A. H., Secer A., Özışık M., Bayram M., Shah N. A., Chung J. D.  
Results in Physics, vol.55, 2023 (SCI-Expanded)
  50. **Optical soliton solutions of the nonlinear Schrödinger equation in the presence of chromatic dispersion with cubic-quintic-septic-nonlinearities**  
Ozdemir N., Secer A., Özışık M., Bayram M.  
Physica Scripta, vol.98, no.11, 2023 (SCI-Expanded)
  51. **Investigating of the pure-cubic optical solitons in the presence of spatio-temporal and inter-modal dispersions**  
ESEN H., ÖNDER İ., SEÇER A., ÖZİŞİK M., BAYRAM M.  
European Physical Journal Plus, vol.138, no.11, 2023 (SCI-Expanded)
  52. **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)

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7th International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 20 June 2018, pp.100
62. **Using of Programming Skills in Teaching Discrete Mathematics**  
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63. **Application of Legendre Wavelet Collocation Method for Numerical Solution of Sine-Gordon Equation**  
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64. **Galerkin analysis for Fractional Delay Diﬀerential Equations by Modified Laguerre wavelets**  
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65. **Numerical Solution of Partial Differential Equations based on Chebyshev Wavelet and Chebyshev Wavelet Collocation Method**  
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4th International Conference on Pure and Applied Sciences(Renewable Energy), İstanbul, Turkey, 23 November 2017, pp.124
66. **Estimating Enzyme Kinetic Parameters using Computer Algebra Techniques**  
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4th International Conference on Pure and Applied Sciences(Renewable Energy), İstanbul, Turkey, 23 November 2017, pp.64
67. **A Novel Chebyshev Wavelet Collocation Method for the Ginzburg-Landau Equation**  
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4th International Conference on Pure and Applied Sciences(Renewable Energy), İstanbul, Turkey, 23 November 2017, pp.26
68. **The Vantage Point Bees Algorithm for Complex Optimization Problems**  
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4th International Conference on Pure and Applied Sciences(Renewable Energy), İstanbul, Turkey, 23 November 2017, pp.195
69. **Some Oscillation Theorems for Second Order Neutral Delay Differential Equations**  
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70. **Numerical solution of fractional boundary value problems based on beta fractional derivative**  
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4th International Conference on Pure and Applied Sciences(Renewable Energy), İstanbul, Turkey, 23 November 2017, pp.125
71. **On the oscillation of fractional nonlinear difference equations**  
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4th International Conference on Pure and Applied Sciences(Renewable Energy), İstanbul, Turkey, 23 November 2017, pp.136

72. **Legendre-Wavelet Galerkin Method for the Solution of Fractional Order Differential Equations System**  
Seçer A., Taşçı F., Turan Dincel A., Tekercioğlu R.  
ICCESEN 2017, Antalya, Turkey, 04 October 2017, vol.1, no.1, pp.204
73. **Oscillation Behavior of Solution of Nonlinear Fractional Neutral Differential Equations**  
Bayram M., Seçer A., Adıgüzel H.  
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 04 July 2017, pp.60
74. **Computational Method Based on Bernstein Operational Matrices for solving variable order fractional wave equation**  
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International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 04 July 2017, pp.130
75. **Oscillation Properties of Second-Order Neutral Functional Dynamic Equations on Time Scales**  
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76. **Application of Sinc-Galerkin Method for Solving Fractional Partial Differential Equations**  
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77. **Numerical Solution of Fractional Bagley-Torvik Equation by the Legendre Wavelet Operational Matrix Method**  
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International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 04 July 2017, pp.274
78. **Oscillation Results for Fractional Partial Differential Equations**  
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International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 04 July 2017, pp.61
79. **Numerical Solution Method for the Fractional Differential Equations Using Haar Wavelets**  
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International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 04 July 2017, pp.59
80. **Application of Wavelet-Galerkin Approximation Techniques on the Partial Differential Equations via Maple**  
Seçer A., Bayram M.  
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 04 July 2017, pp.142
81. **The Legendre Wavelet Operational Matrix Method and Its Applications on High Order Non-Linear Differential Equations**  
Seçer A., Altun S., Bayram M.  
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 04 July 2017, pp.273
82. **Chebyshev Wavelet Collocation Method for Solving Partial Differential Equation**  
Seçer A., Bakır Y.  
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 04 July 2017, pp.268
83. **Kesirli Mertebeden Diferansiyel Denklem Sistemlerinin Yaklaşık Çözümü**  
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12. Ankara Matematik Günleri, Ankara, Turkey, 25 May 2017, pp.67
84. **Three-Step Wavelet Galerkin Method for Numerical solutions of PDEs Using Daubechies Wavelets**  
ÖZDEMİR N., SEÇER A.  
3rd International Conference in Pure and Applied Sciences, Dubai, United Arab Emirates, 2 - 06 February 2017, pp.20
85. **Some Oscillation Criteria for a Kind of Nonlinear Fractional Differential Equations**  
Seçer A., Adıgüzel H.  
3rd International Conference on Pure and Applied Sciences, Dubai, United Arab Emirates, 02 February 2017, pp.19
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Özdemir N., Seçer A.  
3rd International Conference on Pure and Applied Sciences, Dubai, United Arab Emirates, 02 February 2017, pp.20



87. **A novel numerical method for solving the variable-order fractional differential equations**  
Seçer A.  
2nd International Conference on Pure & Applied Science, İstanbul, Turkey, 01 June 2016, pp.21
88. **A Numerical Study for Fisher's equation by three-step wavelet Galerkin method**  
Seçer A., Bayram M.  
2nd International Conference on Pure & Applied Science, İstanbul, Turkey, 01 June 2016, pp.106
89. **Numerical Solution of Fractional Differential Equation via Daubechies Wavelet Bases Method**  
Seçer A., Bayram M.  
2nd International Conference on Pure & Applied Science, İstanbul, Turkey, 01 June 2016, pp.122
90. **Numerical solution of boundary value problems by using sinc collocation method and Haar wavelet collocation method**  
Seçer A., Bayram M.  
2nd International Conference on Pure and Applied Sciences, İstanbul, Turkey, 01 June 2016, pp.95
91. **Legendre Wavelet Operational Matrix Method for the Solution of High Order Linear Differential Equations**  
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2nd International Conference on Pure & Applied Science, İstanbul, Turkey, 01 June 2016, pp.123
92. **The Numerical Solutions of Fractional Van der Pol Equation by the aid of Non-uniform Haar Wavelets**  
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2nd International Conference on Pure & Applied Science, İstanbul, Turkey, 01 June 2016, pp.63
93. **A Numerical Study for Fisher's equation by three step wavelet Galerkin method**  
ÖZDEMİR N., SEÇER A., BAYRAM M.  
2nd International Conference on Pure & Applied Science, İstanbul, Turkey, 1 - 05 June 2016
94. **A Numerical Study for Fisher's equation by three-step wavelet Galerkin method**  
Özdemir N., Seçer A., Bayram M.  
2nd International Conference on Pure and Applied Science, İstanbul, Turkey, 1 - 05 June 2016, pp.106
95. **Oscillation Criteria for A class of Fractional Order Functional Differential Equation with Nonlinear Damping Term**  
Seçer A., Bayram M., Adiguzel H.  
5th International Conference on Mathematics & Information Science, Cairo, Egypt, 11 November 2015, pp.1
96. **Oscillation of Solutions to Nonlinear Fractional Differential Equation with Damping Term**  
Bayram M., Seçer A.  
5th International Conference on Mathematics & Information Science, Cairo, Egypt, 11 - 13 November 2015, pp.1
97. **Comparison of some numerical methods for solving boundary value problems (BVPs)**  
Seçer A.  
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 01 July 2015, vol.1, pp.432
98. **On the Wavelet Approximation for Differential Equations**  
Bakır Y., Seçer A.  
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 08 June 2015, pp.346
99. **Theory and Application of the Enzyme Kinetics 4th International Conference in Mathematics and Information Sciences**  
Bayram M., Seçer A.  
4th International Conference in Mathematics and Information Sciences, Cairo, Egypt, 5 - 07 February 2015
100. **On the new Collocation Method for Integro Differential Equations**  
Seçer A., Alkan S.  
4th International Conference in Mathematics and Information Sciences (ICMIS2015), Cairo, Egypt, 05 February 2015, pp.1
101. **The sinc-Galerkin method for solving singular, Dirichlet type boundary value problems and treatment of the boundary conditions**

- Seçer A.  
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 10 July 2014, vol.1, pp.692
102. **SINC-GALERKIN METHOD FOR APPROXIMATE SOLUTIONS OF SPACE FRACTIONAL PARTIAL DIFFERENTIAL EQUATIONS**  
Seçer A., Alkan S., Bayram M.  
Universiti Putra Malaysia, Kuala-Lumpur, Malaysia, 04 June 2014, pp.1
103. **On the sinc-Galerkin approximation of Boundary Value Problems**  
Seçer A., Aydin H., Alkan S.  
The First Workshop on Applied Mathematical Analysis, Adiwerna, Indonesia, 02 June 2014, pp.1
104. **On the sinc-Galerkin approximation of Partial and Fractional Partial Differential Equations**  
Seçer A.  
The First Workshop on Applied Mathematical Analysis, Adiwerna, Indonesia, 02 June 2014, pp.1
105. **Choas Control of Fractional Model for weakly Nonlinear Double Convection**  
Güzel N., Akinlar M. A., Seçer A., Bayram M.  
International Conference and workshop on Mathematical Analysis 2014, Kuala-Lumpur, Malaysia, 27 - 30 May 2014, pp.150
106. **OSCILLATION CRITERIA FOR FRACTIONAL DIFFERENTIAL EQUATION WITH FUNCTIONAL TERM**  
Seçer A., Adiguzel H.  
International Conference on Mathematics and Mathematics Education (ICMME-2016), Elazığ, Turkey, 12 May 2014, pp.1
107. **Notes on Sinc-Galerkin Approximation**  
Seçer A.  
International Conference on Mathematical Sciences and Statistics, Kuala Lumpur, Malaysia, Kuala-Lumpur, Malaysia, 01 March 2014, pp.1
108. **Wavelet-petrov-galerkin method for numerical solution of boussinesq equation**  
Akinlar M. A., SEÇER A.  
2013 2nd International Conference on Chemical, Mechanical and Materials Engineering, CMME 2013, Melbourne, Australia, 20 - 21 January 2013, vol.319, pp.451-455
109. **Numerical solution and simulation of PDEs with sinc-Galerkin method by using Maple**  
Seçer A.  
International Conference on the Theory, Methods and Applications of Nonlinear Equations, Texas, USA., Texas, United States Of America, 17 December 2012, pp.1
110. **Application of Wavelet Enhanced Neumann Expansion Method to Approximate Solution of Stochastic PDEs**  
Seçer A.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA 20-24 2012 June Istanbul, Turkey., İstanbul, Turkey, 20 July 2012, pp.1
111. **The Solution of Fractional Differential Equations FDEs with Greens Function Method**  
Seçer A.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA 20-24 2012 June Istanbul, Turkey., İstanbul, Turkey, 20 July 2012, pp.1
112. **Simulation of Sinc-Galerkin Approximation for Nonlinear Boundary Value Problems by Using Maple**  
Seçer A.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA 20-24 2012 June Istanbul, Turkey., İstanbul, Turkey, 20 July 2012, pp.1
113. **The Numerical Solution and Implementation of an Efficient 3D Image Registration Method**  
Seçer A.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA 20-24 2012 June Istanbul, Turkey., İstanbul, Turkey, 10 June 2012, pp.1
114. **A Coupled System of Nonlinear Differential Equations via Differential Transform Method**

Seçer A.

INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA 20-24 2012 June Istanbul, Turkey, İstanbul, Turkey, 20 June 2012, vol.1, pp.200-201

115. **On The Numerical Solution Of Differential-Algebraic Equations with Index-2 By Chebyshev Approximation (Kültür Üni. İstanbul)**

Seçer A.

XVII. Ulusal Matematik sempozyumu, Ankara, Turkey, 02 May 2006, pp.1

## Academic and Administrative Experience

2016 - Continues	<b>Scientific Award Committee Member</b>	Yildiz Technical University
2016 - Continues	<b>Rectorate Commissioner</b>	Yıldız Teknik Üniversitesi, Kütüphane Danışma Kurulu
2016 - Continues	<b>Rectorate Commissioner</b>	Yıldız Teknik Üniversitesi, Bologna Eşgüdüm Komisyonu, Bologna Eşgüdüm Komisyonu"
2016 - Continues	<b>Rectorate Commissioner</b>	Yıldız Teknik Üniversitesi, Lojman Tahsis Komisyonu
2016 - Continues	<b>Rectorate Commissioner</b>	Yıldız Teknik Üniversitesi, Eğitim-Öğretim Komisyonu Mevzuat Çalışma Grubu
2016 - 2020	<b>Head of Department</b>	Yildiz Technical University
2015 - 2018	<b>Deputy Head of Department</b>	Yıldız Teknik Üniversitesi, Matematik Mühendisliği, Matematik Mühendisliği

## Courses

### Undergraduate

Artificial Intelligence, Undergraduate, 2011 - 2012

Programming Languages II, Undergraduate, 2011 - 2012

Mathematics I, Undergraduate, 2011 - 2012

Integral Equations, Undergraduate, 2011 - 2012

Veri Yönetimi ve Dosya Yapıları I, Undergraduate, 2010 - 2011

## Supervised Theses

Seçer A., Optikte Kesirli Schrödinger Denklemleri Üzerine, Doctorate, İ.ÖNDER(Student), Continues

Seçer A., Kesirli Mertebeden Kısmi Diferansiyel Denklemlerin Yeni Nümerik Yöntemlerle Çözülmesi, Doctorate, H.ESEN(Student), Continues

Seçer A., Soliton Dalga Üreten Kesirli Mertebeden Nonlineer Kısmi Diferansiyel Denklemlerin Çözümleri Üzerine, Doctorate, H.Çakıcıoğlu(Student), Continues

Seçer A., Solutions of Schrödinger Equation having Kerr-Law Nonlinearity with Two Different Methods, Postgraduate, Z.MELİSA(Student), Continues

Seçer A., PHYSICS INFORMED NEURAL NETWORK (PINN) KULLANILARAK OPTİK SOLİTON ÇÖZÜMLERİNİN İNCELENMESİ, Postgraduate, K.NUR GÜLFİDAN(Student), Continues

Seçer A., Wavelet Methods for Solving Nonlinear Fractional Order Partial Differential Equations, Doctorate, M.ÇINAR(Student), 2022

Seçer A., Recursive deep learning for Turkish sentiment analysis, Doctorate, S.Zeybek(Student), 2021

Seçer A., Solutions of linear and non linear systems of ordinary differential equations with sinc-galerkin method , Postgraduate, İ.ÖNDER(Student), 2021

Seçer A., Bazı stokastik diferansiyel denklemlerin çözümleri ve kararlılığının bilgisayar cebri ile analizi, Postgraduate, E.Onar(Student), 2019

Seçer A., Gegenbauer wavelets Galerkin method for numerical solutions of partial differential equations, Doctorate, N.Özdemir(Student), 2019

Seçer A., Kesirli mertebeden diferansiyel denklem sistemlerinin çözümü için legendre dalgacığı operasyonel matris metodu, Doctorate, S.Altun(Student), 2018

Seçer A., Chebyshev wavelet collocation method for numerical solution of non-linear partial diferantial equation, Doctorate, Y.Bakır(Student), 2018

Seçer A., Oscillation theorems for fractional order differential equations, Doctorate, H.Adıgüzel(Student), 2017

Seçer A., The Sinc-Galerkin method for solving boundary value problems and treatment of the boundary conditions , Postgraduate, S.Altun(Student), 2016

Seçer A., Numerical solution of fractional order differential equations , Doctorate, S.Alkan(Student), 2014

### Activities in Scientific Journals

Applied Mathematics & Information Sciences, Editor, 2018 - Continues

INTERNATIONAL JOURNAL OF PURE AND COMPUTATIONAL MATHEMATICS, Editor, 2017 - Continues

Mathematics in Natural Science (MNS), Editor, 2017 - Continues

Sigma Journal of Engineering and Natural Sciences, Editor, 2016 - Continues

Journal of Abstract and Computational Mathematics, First Editor, 2016 - Continues

Communication in Mathematical Modeling and Applications, Editor, 2016 - Continues

Reviews in Contemporary Mathematics, Editor, 2016 - Continues

New Trends in Mathematical Sciences, Editor, 2013 - Continues

Journal of Inequalities and Applications, Special Issue Editor, 2016 - 2016

Open Physics, Editor, 2016 - 2016

The Scientific World Journal, Special Issue Editor, 2014 - 2014

### Peer Reviews in Scientific Publications

American Mathematical Society (MathRev-Daimi hakem), SCI Journal, January 2015

Boundary Value Problems, SCI Journal, November 2014

International Journal of Computer Mathematics, SCI Journal, October 2013

Advances in Difference Equations , Springer Open, Since 2012, SCI Journal, November 2012

MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES, SCI Journal, October 2012

Abstract and Applied Analysis, Hindawi Corp., SCI Journal, October 2012

International Journal of Modern Theoretical Physics - Modern Scientific Press, SCI Journal, September 2012

Applied Mathematical Modelling- Elsevier Editorial System (EES),, SCI Journal, August 2012

Applied Mathematics & Information Sciences, since 2012, SCI Journal, June 2012

Educational Research and Reviews, Academic Journals, since 2012, SCI Journal, May 2012

### Tasks In Event Organizations

Seçer A., INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING-2018, Scientific

Congress, İstanbul, Turkey, Haziran 2018

Seçer A., 1st INTERNATIONAL CONFERENCE ON ROBOTIC TECHNOLOGY and REHABILITATION, Scientific Congress, İstanbul, Turkey, Nisan 2018

Seçer A., INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING-2017, Scientific Congress, İstanbul, Turkey, Temmuz 2017

Seçer A., INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING-2015, Scientific Congress, İstanbul, Turkey, Haziran 2015

## Metrics

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H-Index (Scopus): 27

## Congress and Symposium Activities

4th International Conference on Mathematics & Information Science (ICMIS 2015), Invited Speaker, Cairo, Egypt, 2015

## Research Areas

Computer Sciences, algorithms, Database and Data Structures, Mathematics, Computer Science, Differential Equations, Partial Differential Equations, Natural Sciences, Engineering and Technology

## Non Academic Experience

Other Public Institution, Tbbm

TBMM Milli Saraylar, Yazılım ve Proje Geliştirme Uzmanı

Atatürk Üniversitesi, Araştırma Görevlisi

Atatürk Üniversitesi, Araştırma Görevlisi