

Prof. Mustafa BAYRAM

Personal Information

Email: msbayram@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/msbayram>

International Researcher IDs

ORCID: 0000-0002-2994-7201

Publons / Web Of Science ResearcherID: AAA-4023-2020

ScopusID: 7005821294

Yoksis Researcher ID: 1259

Education

Doctorate, Bath, School Of Mathematics, Computer And Mathematical Sciences, United Kingdom 1989 - 1993

Supervised Theses

BAYRAM M., Diferensiyel cebirsel ve kısmi türevli diferensiyel cebirsel denklemlerin nümerik çözümü, Postgraduate, M.Osmanoğlu(Student), 2016

BAYRAM M., Satranç Atı Probleminde Kullanılan Arama Algoritmaları, Özellikleri ve Çözümleri, Postgraduate, İ.Can(Student), 2016

BAYRAM M., On stability, periodicity and boundedness of some fourth order rational difference equations' solutions, Doctorate, M.Tuba(Student), 2016

BAYRAM M., Adomian Ayrıştırma (Decomposition) Metodu ile Modelleme Örnekleri, Postgraduate, H.Akyol(Student), 2016

BAYRAM M., Sembolik ve Nümerik Metotlarla Enzim Kinetiği Problemlerinin İncelenmesi, Doctorate, N.Yıldırım(Student), 2016

BAYRAM M., Numerical Solution of Differential-algebraic Equations, Doctorate, E.Çelik(Student), 2016

BAYRAM M., Boundedness, periodicity and stability of some difference equations, Doctorate, S.Ebru(Student), 2016

BAYRAM M., Numerical solutions of fractional differential-algebraic equations, Doctorate, B.İbiş(Student), 2016

BAYRAM M., Mathematical Models By Fundamental Thermodynamic Equations On Paper Drying, Doctorate, G.Koyunlu(Student), 2016

BAYRAM M., Diferensiyel Denklemlerin Diferensiyel Dönüşümler Yardımıyla Çözümü, Postgraduate, Y.Güngör(Student), 2016

BAYRAM M., Senkronizasyon, Postgraduate, F.Burcu(Student), 2016

BAYRAM M., Rasyonel İnterpolasyon Yöntemleri ve Uygulamaları, Postgraduate, B.Ali(Student), 2016

BAYRAM M., Numerical solutions of algebraic Riccati equations, Doctorate, B.Özyurt(Student), 2016

BAYRAM M., A study of Lebesgue constants in barycentric rational and multivariate polynomial interpolation, Doctorate, B.Ali(Student), 2016

BAYRAM M., Matris Teorisinin Biyokimyasal Kinetiğe Uygulaması, Postgraduate, H.Yetişkin(Student), 1998

BAYRAM M., Çok Değişkenli Polinom Tipindeki Denklem Sistemlerinin Gröbner Bazi Metodu ile Çözümü ve Uygulamaları, Postgraduate, M.Güner(Student), 1996

BAYRAM M., Gröbner Bazi ve Uygulamaları, Postgraduate, E.Çelik(Student), 1996

- I. **Stochastic higher-order Lakshmanan-Porsezian-Daniel model with cubic-quintic law nonlinearities in the presence of spatio-temporal and chromatic dispersion terms**
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Journal of Nonlinear Optical Physics and Materials, vol.34, no.4, 2025 (SCI-Expanded)
- II. **Pure-Cubic Optical Soliton Solutions of the Nonlinear Schrödinger Equation Including Parabolic Law Nonlinearity in the Absence of the Group Velocity Dispersion**
ÖZİŞIK M., Altun Durmus S., SEÇER A., BAYRAM M.
International Journal of Theoretical Physics, vol.64, no.4, 2025 (SCI-Expanded)
- III. **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., ÖZİŞIK M., BAYRAM M., Kumar S.
Pramana - Journal of Physics, vol.99, no.1, 2025 (SCI-Expanded)
- IV. **Retrieval of the optical soliton solutions of the perturbed Schrödinger-Hirota equation with generalized anti-cubic law nonlinearity having the spatio-temporal dispersion**
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Mathematical Methods in the Applied Sciences, vol.48, no.2, pp.2164-2178, 2025 (SCI-Expanded)
- V. **Production of sorbet with persimmon using green pea aquafaba: physicochemical characterization and bioaccessibility of bioactive compounds**
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- VI. **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.
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- VII. **Investigating the potential of optical metamaterials with highly dispersive solitons in twin couplers with stochastic perturbations and white noise effects**
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Ain Shams Engineering Journal, vol.15, no.12, 2024 (SCI-Expanded)
- VIII. **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., ÖZİŞIK M., BAYRAM M.
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- IX. **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., ÖZİŞIK M., SEÇER A., BAYRAM M.
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- X. **Investigation of soliton solutions to the Peyrard-Bishop-Deoxyribo-Nucleic-Acid dynamic model with beta-derivative**
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- XI. **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., ÖZİŞIK M., BAYRAM M.
Physica Scripta, vol.99, no.9, 2024 (SCI-Expanded)
- XII. **On Stochastic Pure-Cubic Optical Soliton Solutions of Nonlinear Schrödinger Equation Having Power Law of Self-Phase Modulation**
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- XIII. **Optical soliton solution of the perturbed Biswas-Milovic equation having cubic-quintic-septic law nonlinearity in the presence of spatio-temporal and chromatic dispersion**
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- XIV. **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., Elsherbeny A. M., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- XV. **Obtaining analytical solutions of (2+1)-dimensional nonlinear Zoomeron equation by using modified F-expansion and modified generalized Kudryashov methods**
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- XX. **Optical solitons of stochastic perturbed Radhakrishnan-Kundu-Lakshmanan model with Kerr law of self-phase-modulation**
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- XXI. **A comprehensive analysis of Fokas-Lenells equation using Lie symmetry method**
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- XXV. **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., ÖZİŞIK M., BAYRAM M., Shah N. A., Chung J. D.
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- XXVI. **Nonlinear complex generalized zakharov dynamical system in conformal sense utilizing new kudryashov method**
 SEÇER A., BAYRAM M., ÖZDEMİR N., ÖNDER İ., ESEN H., ÇINAR M., Aydin H.

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ESEN H., ÖNDER İ., SEÇER A., BAYRAM M.
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- XXVIII. **Davey-Stewartson system and investigation of the impacts of the nonlinearity**
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- XXIX. **On obtaining optical solitons of the perturbed cubic-quartic model having the Kudryashov's law of refractive index**
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- XXXI. **On obtaining analytical soliton solutions of Drinfeld-Sokolov-Satsuma-Hirota equation via two efficient methods**
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- XXXIII. **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., ÖZİŞIK M., BAYRAM M., YÜCE S.
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- XXXVII. **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., ÖZİŞIK M., BAYRAM M.
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- XXXVIII. **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., ÖZİŞIK M., SEÇER A., BAYRAM M.
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- XXXIX. **On the soliton solutions to the density-dependent space time fractional reaction-diffusion equation with conformable and M-truncated derivatives**
ESEN H., ÖZDEMİR N., SEÇER A., BAYRAM M., Sulaiman T. A., Ahmad H., Yusuf A., Albalwi M. D.
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- XL. **Retrieval of optical solitons: Complex cubic-quintic Ginzburg–Landau equation augmented with the anti-cubic law**
 ÇINAR M., Cakicioglu H., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- XLI. **Resonant NLSE in the presence of spatio-temporal and intermodal dispersion is dominated by a myriad of nonlinearities**
 ÖZİŞIK M., SEÇER A., BAYRAM M.
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- XLII. **Soliton solutions of Heisenberg spin chain equation with parabolic law nonlinearity**
 Altun S., ÖZDEMİR N., ÖZİŞIK M., SEÇER A., BAYRAM M.
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- XLIII. **Optical soliton solutions of dispersive Schrödinger–Hirota equation with chromatic and inter-modal dispersion in a couple of law medium**
 ÖNDER İ., ESEN H., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- XLV. **Optical solitons of improved perturbed nonlinear Schrödinger equation with cubic-quintic-septic and triple-power laws in optical metamaterials**
 ÇINAR M., Cakicioglu H., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- XLVI. **Optical solitons for the dispersive Schrödinger–Hirota equation in the presence of spatio-temporal dispersion with parabolic law**
 ÖZDEMİR N., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- XLVII. **Investigation of optical soliton solutions of higher-order nonlinear Schrödinger equation having Kudryashov nonlinear refractive index**
 ÖZİŞIK M., SEÇER A., Bayram M., ÇINAR M., ÖZDEMİR N., ESEN H., ÖNDER İ.
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 ÇINAR M., SEÇER A., Bayram M.
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- XLIX. **Optical soliton solutions of (1+1)- and (2+1)-dimensional generalized Sasa-Satsuma equations using new Kudryashov method**
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- L. **Solitons in dual-core optical fibers with chromatic dispersion**
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- LI. **Soliton solutions to the nonlinear higher dimensional Kadomtsev-Petviashvili equation through the new Kudryashov's technique**
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- LIV. **Derivation of optical solitons of dimensionless Fokas-Lenells equation with perturbation term using Sardar sub-equation method**
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- LVII. **Chebyshev Differential Quadrature for Numerical Solutions of Third- and Fourth-Order Singular Perturbation Problems**
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- LVIII. **THE GENERALIZED GEGENBAUER-HUMBERTS WAVELET FOR SOLVING FRACTIONAL DIFFERENTIAL EQUATIONS**
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- LIX. **Multiple response optimization of the effect of thyme essential oil against Listeria monocytogenes in ground meat at different times and temperatures**
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- LXIV. **An approximate solution of fractional cable equation by homotopy analysis method**
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- LXV. **Special Issue on Recent Trends on Mathematics: Papers from the International conference on Applied Analysis and Algebra (ICAAA2011)**
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- LXIX. **Sinc-Galerkin method for approximate solutions of fractional order boundary value problems**
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- LXXII. **A Numerical Method for Partial Differential Algebraic Equations Based on Differential Transform Method**
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- LXXIII. **Coefficient Estimates and Other Properties for a Class of Spirallike Functions Associated with a Differential Operator**
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- LXXVIII. **Numerical comparison of methods for solving fractional differential-algebraic equations (FDEAs)**
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- LXXX. **Global Asymptotic Stability for a Fourth-Order Rational Difference Equation**
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H-Index (Scopus): 15

Non Academic Experience

- Yıldız Teknik Üniversitesi , Dekan
Yıldız Teknik Üniversitesi, Matematiğin Temelleri Ve Matematik Lojik Anabilim Dalı Başkanı

Yıldız Teknik Üniversitesi, Eğitim Fakültesi Fakülte ve Fakülte Yönetim Kurulu Üyesi

Atatürk Üniversitesi, Bilgisayar ve Network eğitim Koordinatörü

Atatürk Üniversitesi, Uygulamalı matematik Anabilimdalı Başkanı

Atatürk Üniversitesi, Bölüm Başkan Yardımcısı

Atatürk Üniversitesi, Bilgisayar Bilimleri Uygulama ve Araştırma merkezi