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### Kişisel Bilgiler

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Yoksis Araştırmacı ID: 1259

### Eğitim Bilgileri

Doktora, Bath, School Of Mathematics, Computer And Mathematical Sciences, Birleşik Krallık 1989 - 1993

### Yönetilen Tezler

BAYRAM M., Diferensiyel cebirsel ve kısmi türevli diferensiyel cebirsel denklemlerin nümerik çözümü, Yüksek Lisans, M.Osmanoğlu(Öğrenci), 2016

BAYRAM M., Satranç Atı Probleminde Kullanılan Arama Algoritmaları, Özellikleri ve Çözümleri, Yüksek Lisans, İ.Can(Öğrenci), 2016

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

BAYRAM M., Adomian Ayrıştırma (Decomposition) Metodu ile Modelleme Örnekleri, Yüksek Lisans, H.Akyol(Öğrenci), 2016

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

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

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

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

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BAYRAM M., Rasyonel İnterpolasyon Yöntemleri ve Uygulamaları, Yüksek Lisans, B.Ali(Öğrenci), 2016

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PHYSICA SCRIPTA, cilt.97, sa.11, 2022 (SCI-Expanded)
- III. **Two Analytical Schemes for the Optical Soliton Solution of the (2+1)-dimensional Kadomtsev-Petviashvili equation**  
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- V. **Analytical solutions of (2+1)-dimensional Calogero-Bogoyavlenskii-Schiff equation in fluid mechanics/plasma physics using the New Kudryashov method**  
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- VI. **Derivation of optical solitons of dimensionless Fokas-Lenells equation with perturbation term using Sardar sub-equation method**  
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- X. **THE GENERALIZED GEGENBAUER-HUMBERT'S WAVELET FOR SOLVING FRACTIONAL DIFFERENTIAL EQUATIONS**  
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- XI. **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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- XIV. **Numerical Solution of Fractional Benney Equation**

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Ibis B., Bayram M.  
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- XXI. **Sinc-Galerkin method for approximate solutions of fractional order boundary value problems**  
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- XXII. **Recent Developments in Integral Transforms, Special Functions, and Their Extensions to Distributions Theory**  
Kilicman A., BAYRAM M., Eltayeb H.  
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- XXIII. **Approximates Method for Solving an Elasticity Problem of Settled of the Elastic Ground with Variable Coefficients**  
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- XXIV. **A Numerical Method for Partial Differential Algebraic Equations Based on Differential Transform Method**  
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- XXV. **Coefficient Estimates and Other Properties for a Class of Spirallike Functions Associated with a Differential Operator**  
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- XXVI. **New solutions of the nonlinear Fisher type equations by the reduced differential transform**  
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- XXVII. **Some properties of the Mittag-Leffler functions and their relation with the Wright functions**  
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- XXVIII. **An efficient computer application of the sinc-Galerkin approximation for nonlinear boundary value problems**

- Seçer A., Kurulay M., Bayram M., Akinlar M. A.  
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- XXIX. **Efficient Variational Approaches for Deformable Registration of Images**  
Akinlar M. A., Kurulay M., Seçer A., Bayram M.  
ABSTRACT AND APPLIED ANALYSIS, 2012 (SCI-Expanded)
- XXX. **Numerical comparison of methods for solving fractional differential-algebraic equations (FDAEs)**  
Ibis B., Bayram M.  
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- XXXII. **Global Asymptotic Stability for a Fourth-Order Rational Difference Equation**  
Gulpinar M. T., Bayram M.  
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2009 (SCI-Expanded)
- XXXIII. **On the numerical solution of differential-algebraic equations with index-3**  
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- XXXIV. **Metabolic control analysis of trio enzymes system**  
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- XXXV. **On the numerical solution of stiff systems**  
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- XXXVI. **Automatic calculation of the fundamental group of an oriented surface of genus n with k boundary surfaces**  
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- XXXVII. **Derivation of conservation relationships for catalytic cycles using MAPLE**  
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- XXXVIII. **The numerical solution of physical problems modeled, as a systems of differential-algebraic equations (DAEs)**  
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- XL. **The basic successive substitute approximations method and Pade approximations to solve the elasticity problem of settled of the wronkler ground with variable coefficients**  
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- XLI. **Application of Grobner basis techniques to enzyme kinetics**  
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- XLII. **A computer program to calculate Alexander polynomial from Braids presentation of the given knot**  
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- XLIII. **Application of computer algebra matrix operation techniques to the control of metabolic networks**  
Bayram M.

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- XLV. **The modified two sided approximations method and Pade approximants for solving the differential equation with variant retarded argument**  
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- XLVII. **The ordinary successive approximations method and Pade approximants for solving a differential equation with variant retarded argument**  
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- XLVIII. **Numerical solutions of chemical differential-algebraic equations**  
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- XLIX. **Arbitrary order numerical method for solving differential-algebraic equation by Pade series**  
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- L. **Application of computer algebra-techniques to metabolic control analysis**  
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- LI. **Simultaneous solution of polynomial equations**  
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- LII. **Numerical method to solve chemical differential-algebraic equations**  
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- LIII. **Automatic calculation of Alexander polynomials of (3,k)-Torus knots**  
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- LIV. **Derivation of conservation relationships for metabolic networks using MAPLE**  
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- LV. **An analysis of the kinetics of unstable enzymatic systems using MAPLE**  
Yildirim N., Bayram M.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.112, sa.1, ss.41-48, 2000 (SCI-Expanded)
- LVI. **Application of computer algebra techniques to affinity binding equations**  
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- LVII. **Application of computer algebra techniques to enzyme kinetics**  
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- LVIII. **A novel method for analyzing enzyme kinetic systems**  
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- LIX. **On a method of calculation of the first phase saturation during the process of displacement of oil by water from porous media**

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**LX. Automatic analysis of the control of metabolic networks**

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## **Diğer Dergilerde Yayınlanan Makaleler**

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- II. **Application of Computer Algebra Matrix Operation Techniques to the Enzymes Kinetics Systems**  
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- III. **Metabolic control analysis in enzymes kinetics**  
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- IV. **Approximate Solutions for Some Nonlinear Evolutions Equations By Using The Reduced Differential Transform Method**  
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- V. **Qualitative Behavior of a fourth-order rational difference equation**  
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- VI. **Dynamics of a higher - order nonlinear rational difference equation**  
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- VII. **Applications of Fractional Differential Transform Method to Fractional IDifferential-Algebraic Equations**  
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- IX. **On The Positive Solutions of The Equation System**  
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- X. **Global asymptotic stability of a nonlinear recursive sequence**  
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- XI. **On the Dynamics of Difference Equation-**  
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- XII. **Power Series Method for Linear Partial Differential Equations of Fractional Order**  
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- XIV. **Türev değerleri içeren rasyonel interpolasyon yöntemleri ve uygulamaları**  
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- XV. **Application of the Differential Transform Method to Differential-Algebraic Equations With Index 2**  
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- XVI. **Error Correction İn Linear Codes With Computer**  
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- XIX. **SABİT KATSAYILI LİNEER DİFERENSİYEL CEBİRSEL DENKLEMLERİN DİFERENSİYEL DONUSUM YONTEMİ İLE NUMERİK COZUMU**  
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- XX. **ON THE NUMERICAL SOLUTION OF LANE-EMDEN DIFFERENTIAL EQUATIONS WITH INDEX-M**  
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- XXII. **Power Series Solution of Non-Linear First Order Differential Equation Systems**  
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- XXV. **Automatic Derivation of Steady State Rate Laws Using a Computer Algebra System**  
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## **Kitap & Kitap Bölümleri**

### **I. Nümerik Analiz**

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Optical soliton with Schrödinger-Hirota equation having parabolic law by generalized Kudryashov scheme**  
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- II. **Stochastic optical solitons of the (2+1)-dispersive nonlinear Schrödinger equation having multiplicative white noise via Ito sense**  
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