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### Kişisel Bilgiler

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### Eğitim Bilgileri

Bütünleşik Doktora, Kiev Devlet Üniversitesi, Ukrayna 1980 - 1984

Lisans, Aktöbe Devlet Pedagoji Enstitüsü, Kazakistan 1974 - 1980

### Araştırma Alanları

Sağlık Bilimleri, Temel Bilimler, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 1998 - Devam Ediyor

### Verdiği Dersler

PARTIAL DIFFERENTIAL EQUATIONS, Yüksek Lisans, 2020 - 2021

ORDINARY DIFFERENTIAL EQUATIONS II, Yüksek Lisans, 2020 - 2021

INTRODUCTION TO CHAOTIC DYNAMICAL SYSTEMS, Yüksek Lisans, 2020 - 2021

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PARTIAL DIFFERENTIAL EQUATIONS, Lisans, 2016 - 2017

IMPULSIVE DIFFERENTIAL EQUATIONS, Yüksek Lisans, 2007 - 2008

INTRODUCTION TO DELAY DIFFERENTIAL EQUATIONS, Doktora, 2001 - 2002

### Yönetilen Tezler

AKHMET M., Parçalı sabit argümanlı adi ve kısmi diferansiyel denklemlerin analizi, Doktora, Z.ÖZKAN(Öğrenci), 2022

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2022

Akhmet M., Kaos ve fraktallar için dinamikler, Doktora, E.Alejaily(Öğrenci), 2019

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ZAFER A., AKHMET M., Stability of the zero solution of impulsive differential equations by Lyapunov second method., Yüksek Lisans, T.Yolcu(Öğrenci), 2002

AKHMET M., Integral manifolds of impulsive systems, Yüksek Lisans, D.ÇELİK(Öğrenci), 2002

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Markovian noise-induced delta synchronization approach for Hindmarsh-Rose model**  
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- II. **Dynamics of Symmetrical Discontinuous Hopfield Neural Networks with Poisson Stable Rates, Synaptic Connections and Unpredictable Inputs**  
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- III. **Cohen-Grossberg neural networks with unpredictable and Poisson stable dynamics**  
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- IV. **Asymptotic solutions of differential equations with singular impulses**  
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- VII. **Revealing Chaos Synchronization Below the Threshold in Coupled Mackey–Glass Systems**  
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- VIII. **Unpredictable and Poisson Stable Oscillations of Inertial Neural Networks with Generalized Piecewise Constant Argument**  
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- IX. **Compartmental Unpredictable Functions**  
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- X. **Shunting Inhibitory Cellular Neural Networks with Compartmental Unpredictable Coefficients and Inputs**  
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- XI. **Synchronization of chaos in semiconductor gas discharge model with local mean energy approximation**  
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- XII. **Duffing equations with two-component Poisson stable coefficients**  
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- XIII. **Unpredictable solutions of quasilinear differential equations with generalized piecewise constant arguments of mixed type**  
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- XIV. **A novel criterion for unpredictable motions**  
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- XV. **Dynamics of Hopfield-Type Neural Networks with Modulo Periodic Unpredictable Synaptic Connections, Rates and Inputs**  
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- XVI. **Poisson Stability in Symmetrical Impulsive Shunting Inhibitory Cellular Neural Networks with Generalized Piecewise Constant Argument**  
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- XVII. **Delta synchronization of Poincare chaos in gas discharge-semiconductor systems**  
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- XIX. **Unpredictability in Markov chains**  
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- XX. **Modulo Periodic Poisson Stable Solutions of Quasilinear Differential Equations**  
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- XXI. **ABSTRACT SIMILARITY, FRACTALS AND CHAOS**  
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- XXIII. **Unpredictable Solutions of Linear Impulsive Systems**  
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- XXVII. **Quasilinear differential equations with strongly unpredictable solutions**  
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- XXVIII. **Domain-Structured Chaos in a Hopfield Neural Network**  
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- XXIX. **Generation of fractals as Duffing equation orbits**  
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- XXXI. **Unpredictable solutions of linear differential and discrete equations**  
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- XXXII. **POINCARÉ CHAOS FOR A HYPERBOLIC QUASILINEAR SYSTEM**  
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- XXXV. **Perturbed Li-Yorke homoclinic chaos**  
AKHMET M., Feckan M., Fen M. O., Kashkynbayev A.  
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- XXXVII. **A singularly perturbed differential equation with piecewise constant argument of generalized type**  
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- XXXVIII. **Chattering as a singular problem**  
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- XXXIX. **Periodic motions generated from non-autonomous grazing dynamics**  
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- XL. **Poincare chaos and unpredictable functions**  
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- XLI. **VERTICAL AND HORIZONTAL GRAZING**  
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- XLII. **Non-autonomous grazing phenomenon**  
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- XLIII. **Nonautonomous Bifurcations in Bernoulli Differential Equations with Piecewise Constant Argument of Generalized Type**  
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- XLIV. **Bifurcation in Autonomous and Nonautonomous Differential Equations with Discontinuities Preface**  
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- XLV. **Existence of unpredictable solutions and chaos**  
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- XLVIII. **Stability in non-autonomous periodic systems with grazing stationary impacts**  
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- L. **Nonautonomous Bifurcation in Impulsive Bernoulli Equations**  
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- L.I. **Hopf Bifurcation in Filippov Systems**  
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- L.XI. **Chaos Generation in Continuous/Discrete-Time Models**  
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- L.XIII. **Replication of Continuous Chaos About Equilibria**  
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- L.XIV. **Replication of Chaos in Neural Networks, Economics and Physics Preface**  
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- L.XV. **Replication of Chaos in Neural Networks, Economics and Physics Introduction**  
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- LXVI. **Economic Models with Exogenous Continuous/Discrete Shocks**  
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- LXVII. **ANALYSIS OF IMPACT CHATTERING**  
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- LXVIII. **Finite-time nonautonomous bifurcation in impulsive systems**  
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- LXIX. **Chaos Extension in Hyperbolic Systems**  
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- LXX. **Chaos by Neural Networks**  
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- LXXI. **Li-Yorke Chaos in Hybrid Systems on a Time Scale**  
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- LXXIII. **Attraction of Li-Yorke chaos by retarded SICNNs**  
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- LXXIV. **Generation of cyclic/toroidal chaos by Hopfield neural networks**  
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- LXXVI. **Chaos in economic models with exogenous shocks**  
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- LXXVII. **Entrainment by Chaos**  
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- LXXIX. **QUASILINEAR RETARDED DIFFERENTIAL EQUATIONS WITH FUNCTIONAL DEPENDENCE ON PIECEWISE CONSTANT ARGUMENT**  
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- LXXX. **Bifurcation of discontinuous limit cycles of the Van der Pol equation**  
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- LXXXI. **Replication of chaos**  
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- LXXXII. **Shunting inhibitory cellular neural networks with chaotic external inputs**

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- LXXXIII. **NON-AUTONOMOUS BIFURCATION IN IMPULSIVE SYSTEMS**  
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- LXXXV. **Global exponential stability of neural networks with non-smooth and impact activations**  
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- LXXXVI. **Stability of neural networks**  
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- LXXXVII. **Linear and quasi-linear systems with piecewise constant argument**  
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- LXXXIX. **The blood pressure distribution**  
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- XC. **Stability**  
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- XCI. **Nonlinear Hybrid Continuous/Discrete-Time Models Introduction**  
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### **Bilimsel Hakemlikler**

NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, SCI Kapsamındaki Dergi, Ocak 2017

TURKISH JOURNAL OF MATHEMATICS, Hakemli Bilimsel Dergi, Ocak 2016

NEUROCOMPUTING, SCI Kapsamındaki Dergi, Ocak 2015

DYNAMICS OF CONTINUOUS DISCRETE AND IMPULSIVE SYSTEMS-SERIES B-APPLICATIONS, SCI Kapsamındaki Dergi, Ocak 2014

NEURAL NETWORKS, SCI Kapsamındaki Dergi, Ocak 2012

NONLINEAR ANALYSIS-HYBRID SYSTEMS, SCI Kapsamındaki Dergi, Ocak 2012

Communications in Nonlinear Sciences and Numerical Simulations, Diğer İndekslerce Taranan Dergi, Ocak 2011

NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS, SCI Kapsamındaki Dergi, Ocak 2010

COMPUTERS & MATHEMATICS WITH APPLICATIONS, SCI Kapsamındaki Dergi, Ocak 2010

Journal of Mathematical Analysis and Applications, Diğer İndekslerce Taranan Dergi, Ocak 2007

APPLIED MATHEMATICS LETTERS, Diğer İndekslerce Taranan Dergi, Ocak 2007

### **Etkinlik Organizasyonlarındaki Görevler**

Akhmet M., 3rd of International Conference on Neurology and Brain Disorders, Bilimsel Kongre / Sempozyum Organizasyonu, Paris, Fransa, Haziran 2019

Akhmet M., 3rd International Conference on Frontiers of Image Processing, Bilimsel Kongre / Sempozyum Organizasyonu, Florence, İtalya, Mart 2019

Akhmet M., 5th Edition of International Conference on Knowledge and Software Engineering, Bilimsel Kongre / Sempozyum Organizasyonu, Praha, Çek Cumhuriyeti, Mart 2019

Akhmet M., 6th International Conference on Mathematics and Information Sciences, Bilimsel Kongre / Sempozyum Organizasyonu, Sawhaj, Mısır, Şubat 2019

Akhmet M., 10th International Conference on Information Management and Engineering, Bilimsel Kongre / Sempozyum Organizasyonu, Manchester, Birleşik Krallık, Eylül 2018

Akhmet M., International Conference on Neurology and Brain Disorders, Bilimsel Kongre / Sempozyum Organizasyonu, Manchester, Birleşik Krallık, Eylül 2018

Akhmet M., 2nd of International Conference on Neurology and Brain Disorders, Bilimsel Kongre / Sempozyum Organizasyonu, Rome, İtalya, Haziran 2018

Akhmet M., 2nd International Conference on Frontiers of Image Processing, Bilimsel Kongre / Sempozyum Organizasyonu, Barcelona, İspanya, Mart 2018

Akhmet M., 7th International Conference on Mathematics and Information Sciences, Bilimsel Kongre / Sempozyum



Organizasyonu, Sawhaj, Mısır, Şubat 2018

Akhmet M., Ankara Mathematics Days Symposium, Bilimsel Kongre / Sempozyum Organizasyonu, Ankara, Türkiye, Mayıs 2016

Akhmet M., 5th International Conference on Mathematics and Information Sciences, Bilimsel Kongre / Sempozyum Organizasyonu, Sawhaj, Mısır, Şubat 2016

Akhmet M., International Conference on Nonlinear Differential and Difference Equations: Recent Developments and Applications, Bilimsel Kongre / Sempozyum Organizasyonu, Antalya, Türkiye, Mayıs 2014

Akhmet M., 6th Chaotic Modeling and Simulation International Conference , Bilimsel Kongre / Sempozyum Organizasyonu, İstanbul, Türkiye, Haziran 2013

Akhmet M., 1st Workshop on Complex Dynamical Systems and Their Applications, Bilimsel Kongre / Sempozyum Organizasyonu, Ankara, Türkiye, Ekim 2012

Akhmet M., Ankara Mathematics Days Symposium, Bilimsel Kongre / Sempozyum Organizasyonu, Ankara, Türkiye, Haziran 2010

Akhmet M., 3rd International Conference on Complex Systems and Applications, Bilimsel Kongre / Sempozyum Organizasyonu, Paris, Fransa, Temmuz 2009

Akhmet M., Ankara Mathematics Days Symposium, Bilimsel Kongre / Sempozyum Organizasyonu, Ankara, Türkiye, Mayıs 2008

## Metrikler

Yayın: 203

Atf (WoS): 1344

Atf (Scopus): 1866

H-İndeks (WoS): 21

H-İndeks (Scopus): 24

## Kongre ve Sempozyum Katılımı Faaliyetleri

The 3rd International Conference on Neurology and Brain Disorders, Çalışma Grubu, Paris, Fransa, 2019

The 3rd International Conference on Frontiers of Image Processing, Çalışma Grubu, Florence, İtalya, 2019

The 10th International Conference on Information Management and Engineering, Çalışma Grubu, Manchester, Birleşik Krallık, 2018

International Conference on Information Hiding and Image Processing, Çalışma Grubu, Manchester, Birleşik Krallık, 2018

The 2nd International Conference on Neurology and Brain Disorders, Çalışma Grubu, Rome, İtalya, 2018

The 2nd International Conference on Frontiers of Image Processing, Çalışma Grubu, Barcelona, İspanya, 2018

The 4th Computational Mathematics and Applications Conference, Çalışma Grubu, Guilin, Çin, 2017

8th International Conference on Information Management and Engineering, Çalışma Grubu, İstanbul, Türkiye, 2016

Ankara Mathematics Days Symposium, Çalışma Grubu, Ankara, Türkiye, 2016

7th International Conference on Information Management and Engineering, Çalışma Grubu, Rome, İtalya, 2015

International Conference on Pure and Applied Mathematics, Çalışma Grubu, Van, Türkiye, 2015

3rd International Conference on Complex Dynamical Systems and Their Applications: New Mathematical Concepts and Applications in Life Sciences, Çalışma Grubu, Ankara, Türkiye, 2014

International Conference on Nonlinear Differential and Difference Equations: Recent Developments and Applications, Çalışma Grubu, Antalya, Türkiye, 2014

6th Chaotic Modeling and Simulation International Conference, Çalışma Grubu, İstanbul, Türkiye, 2013

1st Workshop on Complex Dynamical Systems and Their Applications, Çalışma Grubu, Ankara, Türkiye, 2012