Prof. BAŞAK KARPUZ

Personal Information

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International Researcher IDs
ScholarID: nOaXxFsAAAAJ
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Publons / Web Of Science ResearcherID: O-9134-2019
ScopusID: 23667382900
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Education Information

Doctorate, Afyon Kocatepe University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2008 - 2012
Postgraduate, Afyon Kocatepe University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey 2006 - 2008
Undergraduate, Afyon Kocatepe University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2002 - 2006

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Asymptotic behaviour of solutions of dynamic equations on time scales, Afyon Kocatepe University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2012
Postgraduate, Oscillation of first-order dynamic equations on time scales, Afyon Kocatepe University, Fen Bilimleri Enstitüsü, Mathematics, 2008

Research Areas

Differential Equations, Functional Equations, Integral Equations, Special Functions, Natural Sciences

Academic Titles / Tasks

Professor, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2020 - Continues
Associate Professor, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2014 - 2020
Research Assistant PhD, Afyon Kocatepe University, 2012 - 2014
Research Assistant, Afyon Kocatepe University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2007 - 2012

Academic and Administrative Experience

Head of Department, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2020 - 2023
Vice Dean, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2018 - 2020

Courses

Applied Mathematics, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Project, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018
Applied Mathematics, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2017 - 2018, 2016 - 2017
Numerical and Applied Methods, Postgraduate, 2023 - 2024, 2022 - 2023
Graduation Project, Undergraduate, 2023 - 2024
Ph.D. Research, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
M.Sc. Thesis, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
M.Sc. Research, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Differential Equations II, Undergraduate, 2020 - 2021, 2019 - 2020, 2015 - 2016, 2014 - 2015
Ph.D. Seminar, Postgraduate, 2021 - 2022
Time Scale, Postgraduate, 2021 - 2022, 2016 - 2017
Methods of Applied Mathematics, Postgraduate, 2020 - 2021
M.Sc. Seminar, Postgraduate, 2019 - 2020, 2018 - 2019, 2016 - 2017
Differential Equations I, Undergraduate, 2020 - 2021, 2019 - 2020, 2014 - 2015
Calculus II, Undergraduate, 2018 - 2019
Departmental Elective Project, Undergraduate, 2017 - 2018, 2016 - 2017
Calculus I, Undergraduate, 2018 - 2019
Mathematics II, Undergraduate, 2017 - 2018, 2016 - 2017, 2014 - 2015
Departmental Elective Project, Undergraduate, 2017 - 2018, 2016 - 2017
Advanced Analysis II, Undergraduate, 2016 - 2017
Differential Equations II, Undergraduate, 2016 - 2017, 2014 - 2015
Differential Equations and Linear Algebra, Undergraduate, 2017 - 2018
Mathematics I, Undergraduate, 2017 - 2018, 2014 - 2015
Mathematics III, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Applied Mathematics, Postgraduate, 2015 - 2016, 2014 - 2015
Difference Equations, Undergraduate, 2015 - 2016
Differential Equations I, Undergraduate, 2015 - 2016
Applied Mathematics, Postgraduate, 2015 - 2016, 2014 - 2015
Calculus II, Undergraduate, 2014 - 2015
Analysis I, Undergraduate, 2014 - 2015

Advising Theses

Karpuz B., Solutions of dynamic equations of second order on time scales, Postgraduate, G.MOLO(Student), 2023
Karpuz B., Değişken katsayılı fark denklemlerin salınımı için yinelemeli salınım testleri, Postgraduate, Z.ÖZSEVER(Student), 2021
Karpuz B., Değişken katsayılı kısmi fark denklemler için çarpım tipli salınım testleri, Postgraduate, B.ÖZSAVAŞ(Student), 2021

Jury Memberships

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Bolu Abant İzzet Baysal Üniversitesi, February, 2024

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Karamanoğlu Mehmetbey Üniversitesi, December, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Özyeğin Üniversitesi, May, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Dokuz Eylül Üniversitesi, February, 2023

Associate Professor Exam, Associate Professor Exam, Ankara Yıldırım Beyazıt Üniversitesi, March, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Konya Teknik Üniversitesi, September, 2021

Associate Professor Exam, Associate Professor Exam, Batman Üniversitesi, September, 2021

Associate Professor Exam, Associate Professor Exam, İzmir Ekonomi Üniversitesi, June, 2021

Associate Professor Exam, Associate Professor Exam, Boğaziçi Üniversitesi, October, 2020

Associate Professor Exam, Associate Professor Exam, Marmara Üniversitesi, October, 2020

Associate Professor Exam, Associate Professor Exam, Alanya Alaaddin Keykubat Üniversitesi, March, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Dokuz Eylül Üniversitesi, September, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

I. **An iterative oscillation test for delay difference equations**
KARPUZ B., Ozsever Z.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.51, no.1, pp.74-82, 2022 (SCI-Expanded)

II. **An improved product type oscillation test for partial difference equations**
KARPUZ B., Ozsavas B.
APPLIED MATHEMATICS AND COMPUTATION, vol.391, 2021 (SCI-Expanded)

III. **Oscillation and Nonoscillation of Difference Equations with Several Delays**
KARPUZ B., Stavroulakis I. P.
MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.18, no.1, 2021 (SCI-Expanded)

IV. **New criteria for the oscillation and asymptotic behavior of second-order neutral differential equations with several delays**
KARPUZ B., Santra S. S.
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.6, pp.1990-2003, 2020 (SCI-Expanded)

V. **Sharp oscillation and nonoscillation tests for delay dynamic equations**
KARPUZ B.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.42, no.9, pp.2993-3001, 2019 (SCI-Expanded)

VI. **Hille-Nehari theorems for dynamic equations with a time scale independent critical constant**
KARPUZ B.
APPLIED MATHEMATICS AND COMPUTATION, vol.346, pp.336-351, 2019 (SCI-Expanded)

VII. **Oscillation theorems for second-order nonlinear delay differential equations of neutral type**
KARPUZ B., Santra S. S.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.48, no.3, pp.633-643, 2019 (SCI-Expanded)

VIII. **PHILOS' INEQUALITY ON TIME SCALES AND ITS APPLICATION IN THE OSCILLATION THEORY**
KARPUZ B.
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.21, no.4, pp.1029-1046, 2018 (SCI-Expanded)

IX. **On the existence and uniqueness of solutions to dynamic equations**
KARPUZ B.
TURKISH JOURNAL OF MATHEMATICS, vol.42, no.3, pp.1072-1089, 2018 (SCI-Expanded)

X. **Sharp oscillation and nonoscillation tests for linear difference equations**

KARPUZ B.

JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS, vol.23, no.12, pp.1929-1942, 2017 (SCI-Expanded)

XI. **On Different Types of Stability for Linear Delay Dynamic Equations**

Braverman E., KARPUZ B.

ZEITSCHRIFT FUR ANALYSIS UND IHRE ANWENDUNGEN, vol.36, no.3, pp.343-375, 2017 (SCI-Expanded)

XII. **Analyticity of the Complex Time Scale Exponential**

KARPUZ B.

COMPLEX ANALYSIS AND OPERATOR THEORY, vol.11, no.1, pp.21-34, 2017 (SCI-Expanded)

XIII. **Nonoscillation and oscillation of second-order linear dynamic equations via the sequence of functions technique**

KARPUZ B.

JOURNAL OF FIXED POINT THEORY AND APPLICATIONS, vol.18, no.4, pp.889-903, 2016 (SCI-Expanded)

XIV. **New oscillation tests and some refinements for first-order delay dynamic equations**

KARPUZ B., ÖCALAN Ö.

TURKISH JOURNAL OF MATHEMATICS, vol.40, no.4, pp.850-863, 2016 (SCI-Expanded)

XV. **Comparison tests for the asymptotic behaviour of higher-order dynamic equations of neutral type**

KARPUZ B.

FORUM MATHEMATICUM, vol.27, no.5, pp.2759-2773, 2015 (SCI-Expanded)

XVI. **Asymptotic stability of the complex dynamic equation u(Delta) - z.u+w.u(sigma)=0**

KARPUZ B.

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.421, no.1, pp.925-937, 2015 (SCI-Expanded)

XVII. **Oscillation and stability of first-order delay differential equations with retarded impulses**

KARPUZ B.

ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS, no.66, 2015 (SCI-Expanded)

XVIII. **OSCILLATION OF SOLUTIONS OF LINEAR IMPULSIVE PARTIAL DIFFERENCE EQUATIONS WITH CONTINUOUS VARIABLES**

KARPUZ B.

ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2014 (SCI-Expanded)

XIX. **Volterra Theory on Time Scales**

KARPUZ B.

RESULTS IN MATHEMATICS, vol.65, no.3-4, pp.263-292, 2014 (SCI-Expanded)

XX. **Necessary and sufficient conditions on the asymptotic behavior of second-order neutral delay dynamic equations with positive and negative coefficients**

KARPUZ B.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.37, no.8, pp.1219-1231, 2014 (SCI-Expanded)

XXI. **Sufficient conditions for the oscillation and asymptotic beaviour of higher-order dynamic equations of neutral type**

KARPUZ B.

APPLIED MATHEMATICS AND COMPUTATION, vol.221, pp.453-462, 2013 (SCI-Expanded)

XXII. **Li type oscillation theorem for delay dynamic equations**

KARPUZ B.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.36, no.9, pp.993-1002, 2013 (SCI-Expanded)

XXIII. **Further properties of the Laplace transform on time scales with arbitrary graininess**

Bohner M., Guseinov G. S., KARPUZ B.

INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.24, no.4, pp.289-301, 2013 (SCI-Expanded)

XXIV. **On stability of delay difference equations with variable coefficients: successive products tests**

Braverman E., KARPUZ B.

ADVANCES IN DIFFERENCE EQUATIONS, vol.2012, 2012 (SCI-Expanded)

XXV. **Uniform exponential stability of first-order dynamic equations with several delays**

Braverman E., KARPUZ B.

APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.21, pp.10468-10485, 2012 (SCI-Expanded)

XXVI. **On global asymptotic stability of nonlinear higher-order difference equations**
Braverman E., KARPUZ B.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.236, no.11, pp.2803-2812, 2012 (SCI-Expanded)

XXVII. **Oscillation of first order differential equations with retarded arguments**
KARPUZ B.
Mathematica Slovaca, vol.62, no.2, pp.247-256, 2012 (SCI-Expanded)

XXVIII. **On Monotonicity of Nonoscillation Properties of Dynamic Equations in Time Scales**
Braverman E., KARPUZ B.
ZEITSCHRIFT FUR ANALYSIS UND IHRE ANWENDUNGEN, vol.31, no.2, pp.203-216, 2012 (SCI-Expanded)

XXIX. **On oscillation of differential and difference equations with non-monotone delays**
Braverman E., KARPUZ B.
APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.7, pp.3880-3887, 2011 (SCI-Expanded)

XXX. **COMPARISON CRITERIA FOR THE OSCILLATION OF MIXED-TYPE IMPULSIVE DIFFERENCE EQUATIONS WITH CONTINUOUS ARGUMENTS**
KARPUZ B., ÖCALAN Ö., Ozturk S.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.40, no.2, pp.265-272, 2011 (SCI-Expanded)

XXXI. **SOME GENERALIZATIONS FOR OPIAL'S INEQUALITY INVOLVING SEVERAL FUNCTIONS AND THEIR DERIVATIVES OF ARBITRARY ORDER ON ARBITRARY TIME SCALES**
KARPUZ B., ÖZKAN U. M.
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.14, no.1, pp.79-92, 2011 (SCI-Expanded)

XXXII. **Necessary and Sufficient Conditions for the Oscillation of Differential Equations Involving Distributed Arguments**
Dix J. G., KARPUZ B., Rath R.
ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS, no.19, pp.1-15, 2011 (SCI-Expanded)

XXXIII. **Properties of the Laplace transform on time scales with arbitrary graininess**
Bohner M., Guseinov G. S., KARPUZ B.
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.22, no.11, pp.785-800, 2011 (SCI-Expanded)

XXXIV. **Nonoscillation of second order dynamic equations with several delays**
BRAVERMAN E., KARPUZ B.
Abstract And Applied Analysis, vol.2011, no.591254, pp.1-34, 2011 (SCI-Expanded)

XXXV. **Nonoscillation of First-Order Dynamic Equations with Several Delays**
Braverman E., KARPUZ B.
ADVANCES IN DIFFERENCE EQUATIONS, vol.2010, 2010 (SCI-Expanded)

XXXVI. **SOME MULTI-DIMENSIONAL OPIAL-TYPE INEQUALITIES ON TIME SCALES**
KARPUZ B., Kaymakcalan B., ÖZKAN U. M.
JOURNAL OF MATHEMATICAL INEQUALITIES, vol.4, no.2, pp.207-216, 2010 (SCI-Expanded)

XXXVII. **Corrigendum to Oscillation of a class of difference equations of second order Math Comput Modelling 49 2009 912 917**
KARPUZ B., ÖCALAN Ö., YILDIZ M. K.
Mathematical And Computer Modelling, vol.51, pp.1009-1010, 2010 (SCI-Expanded)

XXXVIII. **Oscillation of first-order impulsive difference equations with continuous arguments**
KARPUZ B., ÖCALAN Ö., Ozturk S.
JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.12, no.2, pp.539-543, 2010 (SCI-Expanded)

XXXIX. **COMPARISON THEOREMS ON THE OSCILLATION OF A CLASS OF NEUTRAL DIFFERENCE EQUATIONS WITH CONTINUOUS VARIABLES**
KARPUZ B., ÖCALAN Ö.
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.47, no.2, pp.401-409, 2010 (SCI-Expanded)

XL. **COMPARISON THEOREMS ON THE OSCILLATION AND ASYMPTOTIC BEHAVIOUR OF HIGHER-ORDER NEUTRAL DIFFERENTIAL EQUATIONS**
KARPUZ B., ÖCALAN Ö., ÖZTÜRK S.

GLASGOW MATHEMATICAL JOURNAL, vol.52, pp.107-114, 2010 (SCI-Expanded)

XLI. **Further oscillation criteria for partial difference equations with variable coefficients**
KARPUZ B., ÖCALAN Ö.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.59, no.1, pp.55-63, 2010 (SCI-Expanded)

XLII. **Asymptotic behaviour of bounded solutions of a class of higher-order neutral dynamic equations**
KARPUZ B.
APPLIED MATHEMATICS AND COMPUTATION, vol.215, no.6, pp.2174-2183, 2009 (SCI-Expanded)

XLIII. **Necessary and sufficient conditions on asymptotic behaviour of solutions of forced neutral delay dynamic equations**
KARPUZ B., ÖCALAN Ö.
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.71, no.7-8, pp.3063-3071, 2009 (SCI-Expanded)

XLIV. **OSCILLATION AND NONOSCILLATION OF FIRST-ORDER DYNAMIC EQUATIONS WITH POSITIVE AND NEGATIVE COEFFICIENTS**
KARPUZ B., ÖCALAN Ö.
DYNAMIC SYSTEMS AND APPLICATIONS, vol.18, no.3-4, pp.363-374, 2009 (SCI-Expanded)

XLV. **Oscillation criteria for a class of second-order neutral delay differential equations**
KARPUZ B., Manojlovic J. V., Oecalan O., Shoukaku Y.
APPLIED MATHEMATICS AND COMPUTATION, vol.210, no.2, pp.303-312, 2009 (SCI-Expanded)

XLVI. **Oscillation of a class of difference equations of second order**
KARPUZ B., ÖCALAN Ö., YILDIZ M. K.
Mathematical And Computer Modelling, vol.49, pp.912-917, 2009 (SCI-Expanded)

XLVII. **Some oscillation and nonoscillation criteria for neutral delay difference equations with positive and negative coefficients**
KARPUZ B.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.57, no.4, pp.633-642, 2009 (SCI-Expanded)

XLVIII. **NECESSARY AND SUFFICIENT CONDITIONS FOR THE OSCILLATORY AND ASYMPTOTIC BEHAVIOUR OF SOLUTIONS TO NEUTRAL DELAY DYNAMIC EQUATIONS**
KARPUZ B., ÖCALAN Ö., Rath R.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, vol.2009, pp.1-15, 2009 (SCI-Expanded)

XLIX. **Oscillation of nonlinear neutral delay differential equations of second-order with positive and negative coefficients**
YILDIZ M. K., KARPUZ B., ÖCALAN Ö.
TURKISH JOURNAL OF MATHEMATICS, vol.33, no.4, pp.341-350, 2009 (SCI-Expanded)

L. **Unbounded oscillation of higher-order nonlinear delay dynamic equations of neutral type with oscillating coefficients**
KARPUZ B.
ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS, no.34, pp.1-14, 2009 (SCI-Expanded)

LI. **Oscillation of higher-order nonlinear delay differential equations with oscillatory coefficients**
KARPUZ B., ÖCALAN Ö., YILDIZ M. K.
TURKISH JOURNAL OF MATHEMATICS, vol.33, no.3, pp.259-263, 2009 (SCI-Expanded)

LII. **Iterated Oscillation Criteria for Delay Dynamic Equations of First Order**
Bohner M., KARPUZ B., Oecalan O.
ADVANCES IN DIFFERENCE EQUATIONS, vol.2008, 2008 (SCI-Expanded)

LIII. **OSCILLATION AND ASYMPTOTIC BEHAVIOUR OF A HIGHER ORDER NEUTRAL DIFFERENTIAL EQUATION WITH POSITIVE AND NEGATIVE COEFFICIENTS**
KARPUZ B., Padhy L. N., Rath R.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, vol.2008, 2008 (SCI-Expanded)

LIV. **ON THE OSCILLATION OF NONLINEAR NEUTRAL DIFFERENTIAL EQUATION WITH POSITIVE AND NEGATIVE COEFFICIENTS**
ÖCALAN Ö., Yildiz M. K., KARPUZ B.

DYNAMIC SYSTEMS AND APPLICATIONS, vol.17, no.3-4, pp.667-675, 2008 (SCI-Expanded)

Articles Published in Other Journals

I. **BASIC THEORY FOR DIFFERENTIAL EQUATIONS WITH UNIFIED REIMANN-LIOUVILLE AND HADAMARD TYPE FRACTIONAL DERIVATES**
KARPUZ B., ÖZKAN U. M., Yalcin T., Yildiz M. K.
INTERNATIONAL JOURNAL OF ANALYSIS AND APPLICATIONS, vol.13, no.2, pp.216-230, 2017 (ESCI)

II. **SUFFICIENT CONDITIONS FOR THE OSCILLATION OF ODD-ORDER NEUTRAL DYNAMIC EQUATIONS**
KARPUZ B.
INTERNATIONAL JOURNAL OF ANALYSIS AND APPLICATIONS, vol.14, no.1, pp.69-76, 2017 (ESCI)

III. **Iterated oscillation criteria for delay partial difference equations**
KARPUZ B., Öcalan Ö.
Mathematica Bohemica, vol.139, no.3, pp.437-450, 2014 (Scopus)

IV. **Oscillation of delay dynamic equations with oscillating coefficients**
KARPUZ B., ÖCALAN Ö.
Differential Equations & Applications, vol.5, no.3, pp.331-339, 2013 (ESCI)

V. **The Gamma function on time scales**
BOHNER M., KARPUZ B.
Dynamics Of Continuous Discrete And Impulsive Systems-Series A-Mathematical Analysis, vol.20, no.4, pp.507-522, 2013 (Scopus)

VI. **Oscillation criteria for a class of first order forced differential equations under impulse effects**
KARPUZ B., ÖCALAN Ö.
Advances in Dynamical Systems and Applications, vol.7, no.2, pp.205-218, 2012 (Scopus)

VII. **Oscillation of neutral differential equations with distributed deviating arguments**
CANDAN T., KARPUZ B., ÖCALAN Ö.
Nonlinear Oscillations (New York), vol.15, no.1, pp.65-76, 2012 (Peer-Reviewed Journal)

VIII. **Oscillation and nonoscillation in neutral delay dynamic equations with positive and negative coefficients**
KARPUZ B., ÖCALAN Ö.
Communications in Applied Analysis, vol.16, no.1, pp.113-129, 2012 (Peer-Reviewed Journal)

IX. **Kamenev type oscillation criteria for higher order neutral delay dynamic equations**
ERBE L., KARPUZ B., PETERSON A.
International Journal of Difference Equations, vol.6, no.1, pp.1-16, 2011 (Scopus)

X. **Remarks on Oscillation in nonlinear neutral difference equations with positive and negative coefficients Int J Difference Equ 5 2010 251 265**
KARPUZ B.
International Journal of Difference Equations, vol.6, no.2, pp.127-129, 2011 (Scopus)

XI. **On uniqueness of the Laplace transform on time scales**
KARPUZ B.
PanAmerican Mathematical Journal, vol.21, no.2, pp.101-110, 2011 (Scopus)

XII. **Existence and uniqueness of solutions to systems of delay dynamic equations on time scales**
KARPUZ B.
International Journal of Mathematics and Computation, vol.10, pp.48-58, 2011 (Peer-Reviewed Journal)

XIII. **A generalization of Opial s inequality and applications to second order dynamic equations**
KARPUZ B., KAYMAKÇALAN B., ÖCALAN Ö.
Differential Equations and Dynamical Systems, vol.18, pp.11-18, 2010 (Scopus)

XIV. **A method on the general solution of inhomogeneous Euler differential equations**
KARPUZ B., YILDIRIM H.
Selçuk Journal of Applied Mathematics, vol.10, no.1, pp.19-32, 2009 (Peer-Reviewed Journal)

XV. **Remarks on Oscillation criteria for second order functional difference equation with neutral terms Demon Math 41 2008 615 625**
KARPUZ B.
DEMONSTRATIO MATHEMATICA, vol.52, no.3, pp.549-551, 2009 (ESCI)

XVI. **On oscillation and asymptotic behaviour of a higher order functional difference equation of neutral type**
KARPUZ B., RATH R., RATH S.
International Journal of Difference Equations, vol.4, no.1, pp.69-96, 2009 (Scopus)

XVII. **Generalized Ostrowski s inequality on time scales**
KARPUZ B., ÖZKAN U. M.
JIPAM. Journal of Inequalities in Pure and Applied Mathematics, vol.9, no.4, pp.1-7, 2008 (Peer-Reviewed Journal)

XVIII. **Discrete approach on oscillation of difference equations with continuous variable**
KARPUZ B., ÖCALAN Ö.
Advances in Dynamical Systems and Applications, vol.3, no.2, pp.283-290, 2008 (Scopus)

XIX. **Oscillation criteria for some classes of linear delay differential equations of first order**
KARPUZ B., ÖCALAN Ö.
BULLETIN OF THE INSTITUTE OF MATHEMATICS ACADEMIA SINICA NEW SERIES, vol.3, no.2, pp.293-314, 2008 (ESCI)

XX. **Comparison theorems on oscillatory nature of higher order difference equations with continuous variables**
KARPUZ B., ÖCALAN Ö., ÖZKAN U. M.
International Journal: Mathematical Manuscripts, vol.1, no.1, pp.73-81, 2007 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Sharp Conditions for Oscillation and Nonoscillation of Neutral Difference Equations**
Karpuz B.
in: Difference Equations and Discrete Dynamical Systems with Applications, Martin Bohner,Stefan Siegmund,Roman Simon Hilscher,Petr Stechlik, Editor, Springer, Zug, pp.251-265, 2020

II. **Linearized Oscillation Theory for a Nonlinear Nonautonomous Difference Equation**
Braverman E., Karpuz B.
in: Difference Equations and Discrete Dynamical Systems with Applications, Martin Bohner,Stefan Siegmund,Roman Simon Hilscher,Petr Stechlik, Editor, Springer Nature, Zug, pp.3-19, 2020

Refereed Congress / Symposium Publications in Proceedings

I. **Linearized Oscillation Theory for a Nonlinear Nonautonomous Difference Equation**
Berezansky L., KARPUZ B.
24th International Conference on Difference Equations and Applications (ICDEA), Dresden, Germany, 21 - 25 May 2018, vol.312, pp.3-19

II. **Sharp Conditions for Oscillation and Nonoscillation of Neutral Difference Equations**
KARPUZ B.
24th International Conference on Difference Equations and Applications (ICDEA), Dresden, Germany, 21 - 25 May 2018, vol.312, pp.251-265

III. **Oscillation of second-order linear differential equations**
KARPUZ B.
13. Ankara Matematik Günleri, Ankara, Turkey, 26 - 27 April 2018

IV. **Lower limit and upper limit conditions for oscillation and stability of first order delay differential and difference equations**

KARPUZ B.

International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016

V. **Zaman skalasında dinamik denklemlerin çözümlerinin asimptotik davranışı**

KARPUZ B.

Genç Matematikçiler Toplantısı, İzmir (Nesin Matematik Köyü), Turkey, 14 - 18 September 2015

VI. **On global asymptotic stability of nonlinear higher order difference equations**

KARPUZ B.

14th International Workshop on Dynamical Systems and Applications, Ankara (Gazi Üniversity), Turkey, 29 June - 29 September 2015

VII. **Uniform exponential stability of delay dynamic equations**

KARPUZ B.

12th International Workshop on Dynamical Systems and Applications, Ankara (Atılım University), Turkey, 12 August 2013 - 15 June 2015

VIII. **Dinamik denklemler için Cauchy Peano teoremi**

KARPUZ B.

10. Ankara Matematik Günleri, Ankara (ODTÜ), Turkey, 11 - 12 June 2015

IX. **Karmaşık zaman skalası üstelinin sıfıra gitmesi için keskin koşullar**

KARPUZ B.

8. Ankara Matematik Günleri, Ankara (Çankaya Üniversitesi), Turkey, 13 - 14 June 2013

X. **Volterra integral equations on time scales**

KARPUZ B.

Anatolian Communications in Nonlinear Analysis, Bolu (Abant Izzat Baysal University), Turkey, 3 - 06 June 2013

XI. **Pozitif ve negatif katsayılı fark denklemlerinin salınımı üzerine genel bakış**

KARPUZ B.

5. Ankara Matematik Günleri, Ankara (TOBB Üniversitesi), Turkey, 3 - 04 June 2010

XII. **Iterated oscillation criteria for delay dynamic equations of first order**

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