Prof. BAŞAK KARPUZ

Personal Information

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International Researcher IDs ScholarID: nOaXxFsAAAAJ ORCID: 0000-0002-0242-972X Publons / Web Of Science ResearcherID: 0-9134-2019 ScopusID: 23667382900 Yoksis Researcher ID: 128352

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

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. A Test for Global Attractivity of Linear Dynamic Equations with Delay Alsharif N. H. M., KARPUZ B. Qualitative Theory of Dynamical Systems, vol.23, no.3, 2024 (SCI-Expanded) II. Yoneyama's 3/2 test for the asymptotic stability of delay dynamic equations Alsharif N. H. M., KARPUZ B. International Journal of Control, 2024 (SCI-Expanded) III. 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) IV. 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) V. An improved product type oscillation test for partial difference equations KARPUZ B., Ozsavas B. APPLIED MATHEMATICS AND COMPUTATION, vol.391, 2021 (SCI-Expanded) VI. 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)
- VII. 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)
- VIII. 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)
 - IX. Oscillation theorems for second-order nonlinear delay differential equations of neutral type KARPUZ B., Santra S. S.

X.	HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.48, no.3, pp.633-643, 2019 (SCI-Expanded) PHILOS' INEQUALITY ON TIME SCALES AND ITS APPLICATION IN THE OSCILLATION THEORY
	какгод в. MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.21, no.4, pp.1029-1046, 2018 (SCI-Expanded)
XI.	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)
XII.	Sharp oscillation and nonoscillation tests for linear difference equations
	KARPUZ B.
VIII	JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS, vol.23, no.12, pp.1929-1942, 2017 (Sci-Expanded)
лш.	Braverman F. KARDIJ7 R
	ZEITSCHRIFT FUR ANALYSIS UND IHRE ANWENDUNGEN, vol.36, no.3, pp.343-375, 2017 (SCI-Expanded)
XIV.	Analyticity of the Complex Time Scale Exponential
	KARPUZ B.
	COMPLEX ANALYSIS AND OPERATOR THEORY, vol.11, no.1, pp.21-34, 2017 (SCI-Expanded)
XV.	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)
XVI.	New oscillation tests and some refinements for first-order delay dynamic equations
	TIIRKISH IOURNAL OF MATHEMATICS vol 40 no 4 nn 850-863 2016 (SCI-Fynanded)
XVII.	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)
XVIII.	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)
XIX.	Asymptotic stability of the complex dynamic equation u(Delta) - z.u+w.u(sigma)=0
	KARPUZ B. INIRNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS vol 421 no 1 nn 925-937 2015 (SCI-Exnanded)
XX.	OSCILLATION OF SOLUTIONS OF LINEAR IMPULSIVE PARTIAL DIFFERENCE EQUATIONS WITH
	CONTINUOUS VARIABLES
	KARPUZ B.
	ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2014 (SCI-Expanded)
XXI.	Volterra Theory on Time Scales
	KARPUZ B.
VVII	RESULTS IN MATHEMATICS, vol.65, no.3-4, pp.263-292, 2014 (SCI-Expanded)
AAII.	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)
XXIII.	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)
XXIV.	L1 type oscillation theorem for delay dynamic equations
	MATHEMATICAL METHODS IN THE APPLIED SCIENCES vol 36 no 9 nn 993-1002 2013 (SCI-Fynanded)
XXV.	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) XXVI. 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) XXVII. 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) On global asymptotic stability of nonlinear higher-order difference equations XXVIII. Braverman E., KARPUZ B. JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.236, no.11, pp.2803-2812, 2012 (SCI-Expanded) XXIX. 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) XXX. Oscillation of first order differential equations with retarded arguments KARPUZ B. Mathematica Slovaca, vol.62, no.2, pp.247-256, 2012 (SCI-Expanded) XXXI. 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) XXXII. 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) SOME GENERALIZATIONS FOR OPIAL'S INEQUALITY INVOLVING SEVERAL FUNCTIONS AND THEIR XXXIII. 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) XXXIV. 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) Nonoscillation of second order dynamic equations with several delays XXXV. BRAVERMAN E., KARPUZ B. Abstract And Applied Analysis, vol.2011, no.591254, pp.1-34, 2011 (SCI-Expanded) Necessary and Sufficient Conditions for the Oscillation of Differential Equations Involving XXXVI. **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) XXXVII. Nonoscillation of First-Order Dynamic Equations with Several Delays Braverman E., KARPUZ B. ADVANCES IN DIFFERENCE EQUATIONS, vol.2010, 2010 (SCI-Expanded) SOME MULTI-DIMENSIONAL OPIAL-TYPE INEQUALITIES ON TIME SCALES XXXVIII. KARPUZ B., Kaymakcalan B., ÖZKAN U. M. JOURNAL OF MATHEMATICAL INEQUALITIES, vol.4, no.2, pp.207-216, 2010 (SCI-Expanded) XXXIX. 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) XL. 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) COMPARISON THEOREMS ON THE OSCILLATION OF A CLASS OF NEUTRAL DIFFERENCE EQUATIONS XLI. WITH CONTINUOUS VARIABLES KARPUZ B., ÖCALAN Ö. BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.47, no.2, pp.401-409, 2010 (SCI-Expanded) XLII. 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) XLIII. 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) Asymptotic behaviour of bounded solutions of a class of higher-order neutral dynamic equations XLIV. KARPUZ B. APPLIED MATHEMATICS AND COMPUTATION, vol.215, no.6, pp.2174-2183, 2009 (SCI-Expanded) XLV. 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) XLVI. 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) XLVII. 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) XLVIII. 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) XLIX. 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) L. 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) LI. 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) LII. 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) LIII. 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) LIV. 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)

- LV. 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)
- LVI. 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

1. 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) Remarks on Oscillation criteria for second order functional difference equation with neutral terms

- 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 BOHNER M., KARPUZ B., ÖCALAN Ö.

The 14th International Conference on Difference Equations and Applications, İstanbul (Bahçeşehir University), Turkey, 21 - 23 July 2008

XIII. Comparison theorems on oscillatory nature of higher order difference equations with continuous variables

KARPUZ B., ÖCALAN Ö., ÖZKAN U. M. International Conference: 2007 - Dynamical Systems and Applications, İzmir, Turkey, 1 - 06 July 2007

Metrics

Publication: 93 Citation (WoS): 551 Citation (Scopus): 595 H-Index (WoS): 13 H-Index (Scopus): 13

Scholarships

Doktora Araştırma Bursu, YOK, 2010 - 2011