

Assoc. Prof. ABDÜLKADİR DOĞAN

Personal Information

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Education Information

Post Doctorate, The University Of Tennessee At Chattanooga, Fen Bilimleri Enstitüsü, Matematik, United States Of America 2009 - 2009

Post Doctorate, University Of Leicester, Fen Bilimleri Enstitüsü, Matematik, United Kingdom 2001 - 2001

Doctorate, University Of Wales, Bangor, Bilgisayar Bilimleri Fakültesi, Uygulamalı Matematik, United Kingdom 1994 - 1997

Postgraduate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, Turkey 1989 - 1993

Undergraduate, Hacettepe Üniversitesi, Fen Fakültesi, Matematik, Turkey 1984 - 1988

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Petrov Galerkin Finite Element Methods, University Of Wales, Bangor, Applied Mathematics, Mathematics, 1997

Postgraduate, Klasik Fuzzy Ölçümleri ve Sugeno Fuzzy Ölçümleri Arasındaki İlişkiler, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 1993

Research Areas

Mathematics, Differential Equations, Numerical Analysis, Natural Sciences

Academic and Administrative Experience

Abdullah Gül Üniversitesi, Bilgisayar Bilimleri Fakültesi, Uygulamalı Matematik, 2012 - 2015

Courses

Differential Equations, Undergraduate, 2016 - 2017

Discrete Mathematics, Undergraduate, 2016 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Existence results for a class of boundary value problems for fractional differential equations**
DOĞAN A.
TURKISH JOURNAL OF MATHEMATICS, vol.45, no.3, pp.1149-1165, 2021 (Journal Indexed in SCI)
- II. **Existence of positive solutions for nonlinear multipoint p-Laplacian dynamic equations on time scales**
DOĞAN A.
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.3, pp.676-697, 2020 (Journal Indexed in SCI)
- III. **Solutions to nonlinear second-order three-point boundary value problems of dynamic equations on time scales**
DOĞAN A.
TURKISH JOURNAL OF MATHEMATICS, vol.43, no.3, pp.1276-1295, 2019 (Journal Indexed in SCI)
- IV. **Positive solutions of nonlinear multi-point boundary value problems**
DOĞAN A.
POSITIVITY, vol.22, no.5, pp.1387-1402, 2018 (Journal Indexed in SCI)
- V. **POSITIVE SOLUTIONS OF THE p-LAPLACIAN DYNAMIC EQUATIONS ON TIME SCALES WITH SIGN CHANGING NONLINEARITY**
DOĞAN A.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2018 (Journal Indexed in SCI)
- VI. **On the existence of positive solutions of the p-Laplacian dynamic equations on time scales**
DOĞAN A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.40, no.12, pp.4385-4399, 2017 (Journal Indexed in SCI)
- VII. **TRIPLE POSITIVE SOLUTIONS OF m-POINT BOUNDARY VALUE PROBLEM ON TIME SCALES WITH p-LAPLACIAN**
DOĞAN A.
BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY, vol.43, no.2, pp.373-384, 2017 (Journal Indexed in SCI)
- VIII. **EIGENVALUE PROBLEMS FOR SINGULAR MULTI-POINT DYNAMIC EQUATIONS ON TIME SCALES**
DOĞAN A.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2017 (Journal Indexed in SCI)
- IX. **Eigenvalue problems for nonlinear third-order m-point p-Laplacian dynamic equations on time scales**
DOĞAN A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.39, no.7, pp.1634-1645, 2016 (Journal Indexed in SCI)
- X. **Multiple positive solutions of nonlinear m-point dynamic equations for p-Laplacian on time scales**
DOĞAN A.
TURKISH JOURNAL OF MATHEMATICS, vol.40, no.5, pp.941-959, 2016 (Journal Indexed in SCI)
- XI. **THE EXISTENCE OF POSITIVE SOLUTIONS FOR A SEMIPOSITONE SECOND-ORDER m-POINT BOUNDARY VALUE PROBLEM**
DOĞAN A.
DYNAMIC SYSTEMS AND APPLICATIONS, vol.24, no.4, pp.419-427, 2015 (Journal Indexed in SCI)
- XII. **On the existence of positive solutions for the second-order boundary value problem**
Dogan A.
APPLIED MATHEMATICS LETTERS, vol.49, pp.107-112, 2015 (Journal Indexed in SCI)
- XIII. **ON THE EXISTENCE OF POSITIVE SOLUTIONS FOR THE ONE-DIMENSIONAL p-LAPLACIAN BOUNDARY VALUE PROBLEMS ON TIME SCALES**
DOĞAN A.
DYNAMIC SYSTEMS AND APPLICATIONS, vol.24, no.3, pp.295-303, 2015 (Journal Indexed in SCI)
- XIV. **TRIPLE POSITIVE SOLUTIONS FOR m-POINT BOUNDARY-VALUE PROBLEMS OF DYNAMIC EQUATIONS ON TIME SCALES WITH p-LAPLACIAN**
Dogan A.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2015 (Journal Indexed in SCI)

- XV. **Existence of Countably Many Positive Solutions for Nonlinear Boundary Value Problems on Time Scales**
Dogan A.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.8, no.5, pp.2177-2187, 2014 (Journal Indexed in SCI)
- XVI. **EXISTENCE OF POSITIVE SOLUTIONS FOR p -LAPLACIAN AN m -POINT BOUNDARY VALUE PROBLEM INVOLVING THE DERIVATIVE ON TIME SCALES**
Dogan A.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2014 (Journal Indexed in SCI)
- XVII. **Existence of multiple positive solutions for p -Laplacian multipoint boundary value problems on time scales**
Dogan A.
ADVANCES IN DIFFERENCE EQUATIONS, 2013 (Journal Indexed in SCI)
- XVIII. **EXISTENCE OF THREE POSITIVE SOLUTIONS FOR AN m -POINT BOUNDARY-VALUE PROBLEM ON TIME SCALES**
Dogan A.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2013 (Journal Indexed in SCI)
- XIX. **HIGHER-ORDER SINGULAR MULTI-POINT BOUNDARY-VALUE PROBLEMS ON TIME SCALES**
DOĞAN A., Graef J. R., Kong L.
PROCEEDINGS OF THE EDINBURGH MATHEMATICAL SOCIETY, vol.54, pp.345-361, 2011 (Journal Indexed in SCI)
- XX. **Higher order semipositone multi-point boundary value problems on time scales**
Dogan A., Graef J. R., Kong L.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.60, no.1, pp.23-35, 2010 (Journal Indexed in SCI)
- XXI. **Numerical integration of the RLW equation using cubic splines**
Irk D., Dag W., Dogan A.
ANZIAM JOURNAL, vol.47, pp.131-142, 2005 (Journal Indexed in SCI)
- XXII. **Application of Galerkin's method to equal width wave equation**
DOĞAN A.
APPLIED MATHEMATICS AND COMPUTATION, vol.160, no.1, pp.65-76, 2005 (Journal Indexed in SCI)
- XXIII. **A Galerkin finite element approach to Burgers' equation**
DOĞAN A.
APPLIED MATHEMATICS AND COMPUTATION, vol.157, no.2, pp.331-346, 2004 (Journal Indexed in SCI)
- XXIV. **Galerkin method for the numerical solution of the RLW equation using quadratic B-splines**
Saka B., Dag I., DOĞAN A.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.81, no.6, pp.727-739, 2004 (Journal Indexed in SCI)
- XXV. **Numerical investigation of heat and mass transfer in a metal hydride bed**
DOĞAN A., Kaplan Y., Veziroğlu T. N.
APPLIED MATHEMATICS AND COMPUTATION, vol.150, no.1, pp.169-180, 2004 (Journal Indexed in SCI)
- XXVI. **B-spline collocation methods for numerical solutions of the RLW equation**
Dag I., DOĞAN A., Saka B.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.80, no.6, pp.743-757, 2003 (Journal Indexed in SCI)
- XXVII. **Numerical solution of RLW equation using linear finite elements within Galerkin's method**
DOĞAN A.
APPLIED MATHEMATICAL MODELLING, vol.26, no.7, pp.771-783, 2002 (Journal Indexed in SCI)
- XXVIII. **Numerical solution of regularized long wave equation using Petrov-Galerkin method**
DOĞAN A.
COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, vol.17, no.7, pp.485-494, 2001 (Journal Indexed in SCI)
- XXIX. **A Petrov-Galerkin finite element scheme for Burgers' equation**
Gardner L. R., Gardner G., DOĞAN A.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.22, pp.99-109, 1997 (Journal Indexed in SCI)
- XXX. **A least-squares finite element scheme for the RLW equation**

Gardner L. R. , Gardner G., DOĞAN A.

COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, vol.12, no.11, pp.795-804, 1996 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Existence of positive solutions to multi-point third order problems with sign changing nonlinearities**
DOĞAN A., Graef J. R.
ACTA ET COMMENTATIONES UNIVERSITATIS TARTUENSIS DE MATHEMATICA, vol.24, no.1, pp.109-129, 2020
(Journal Indexed in ESCI)
- II. **Three positive solutions of a three-point boundary value problem for the p-Laplacian dynamic equation on time scales**
DOĞAN A.
Communications in Optimization Theory, pp.1-13, 2018 (Refereed Journals of Other Institutions)
- III. **On the existence of positive solutions for nonlinear three-point boundary value problem**
DOĞAN A.
Communications in Optimization Theory, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **On the existence of positive solutions for nonlinear three point boundary value problem**
DOĞAN A.
2nd International Conference on Analysis and its Applications, 12 - 15 July 2016
- II. **Existence criteria of three positive solutions to boundary value problems for p Laplacian dynamic equations on time scales**
DOĞAN A.
3rd International Conference on Recent Advances in Pure and Applied Mathematics, 19 - 23 May 2016

Scientific Refereeing

Journal of Inequalities and Applications, SCI Journal, May 2018

Electronic Journal of Differential Equations, SCI Journal, October 2017

Advances in Difference Equations, SCI Journal, February 2017

Dynamics of Continuous, Discrete and Impulsive Systems Series A Mathematical Analysis, SCI Journal, August 2016

Boundary Value problems, SCI Journal, May 2016

Bulletin of Iranian Mathematical Society, SCI Journal, March 2015

Advances in Difference Equations, SCI Journal, May 2014

Advances in difference Equations, SCI Journal, March 2014

Computers and Mathematics with Applications, SCI Journal, June 2010

Applied Mathematical Modelling, SCI Journal, February 2010

Applied Mathematics and Computation, SCI Journal, May 2005

Journal of Computational and Applied Mathematics, SCI Journal, March 2004

Edit Congress and Symposium Activities

2nd International Conference on Analysis on Analysis and its Applications, Attendee, Kırşehir, Turkey, 2016

2 nd International Conference of Analysis and its Applications, July 12-15, 2016 at Ahi Evran University, Kırşehir, Attendee, Kırşehir, Turkey, 2016

The 3rd International Conference on Recent Advances in Pure and Applied Mathematics, Attendee, Muğla, Turkey, 2016
10th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, July 7-11, 2014, Madrid, Spain, Attendee, Madrid, Spain, 2014
9th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, July 1-5, 2012, Orlando, Florida, USA, Attendee, Florida, United States Of America, 2012
8th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, May 25-28, 2010, Dresden, Germany, Attendee, Dresden, Germany, 2010
Applications of Time Scales to Biology, Economics and Engineering, American Mathematical Society in San Francisco, Attendee, California, United States Of America, 2010
4th International Conference of Applied Mathematics and Computing, Attendee, Plovdiv, Bulgaria, 2007
Erasmus Teaching Mobility, Attendee, Trnava, Slovakia, 2007

Citations

Total Citations (WOS):416

h-index (WOS):12

Scholarships

Post doktora, University, 2009 - Continues

Post doktora, NATO, 2001 - Continues

Doktora bursu, University, 1993 - Continues

Lisans bursu, Special Institutions and Organizations, 1986 - Continues

Devlet parasız yatılı bursu, Ministry of Education, 1977 - Continues