Res. Asst. PhD Mustafa Bayram GÜCEN

Personal Information

Office Phone: <u>+90 212 383 4377</u>

Fax Phone: <u>+90 212 383 4314</u>

Email: mgucen@yildiz.edu.tr

Web: https://avesis.yildiz.edu.tr/mgucen

International Researcher IDs

ScholarID: KLRhV00AAAAJ ORCID: 0000-0002-9920-1747

Publons / Web Of Science ResearcherID: AAZ-5722-2020

ScopusID: 55209866900 Yoksis Researcher ID: 51811

Education Information

Doctorate, Gebze Technical University, Faculty Of Basic Sciences, Department Of Mathematics, Turkey 2011 - 2019

Postgraduate, Gebze Technical University, Faculty Of Basic Sciences, Department Of Mathematics, Turkey 2009 - 2011

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2006 - 2010

Undergraduate, Gebze Technical University, Faculty Of Basic Sciences, Department Of Mathematics, Turkey 2004 - 2009

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Stability Analyses of Nonlinear Fuzzy Dynamic Systems of Perturbed Systems with respect to Unperturbed Systems with Initial Time Difference, Gebze Technical University, Institute Of Science, 2019

Postgraduate, Linear olmayan dinamik sistemler için stabilite ve kesin stabilite kriterleri, Gebze Technical University, Institute Of Science, 2011

Research Areas

Mathematics, Computer Science, Differential Equations, Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2010 - Continues

~ ------

Lourses

Mathematics 1, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020 Linear Algebra, Undergraduate, 2021 - 2022 MATHEMATICS 2, Undergraduate, 2020 - 2021, 2019 - 2020 Differential Equations, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. Construction of periodic and solitary wave solutions for the complex nonlinear evolution equations CEVİKEL A. C., Bekir A., San S., GÜCEN M. B.

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.351, no.2, pp.694-700, 2014 (SCI-Expanded)

II. Practical stability in terms of two measures for fractional order dynamic systems in Caputo's sense with initial time difference

Cicek M., Yakar C., GÜCEN M. B.

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.351, no.2, pp.732-742, 2014 (SCI-Expanded)

III. Initial time difference stability of causal differential systems in terms of Lyapunov functions and Lyapunov functionals

Yakar C., GÜCEN M. B.

Journal of Applied Mathematics, vol.2014, 2014 (SCI-Expanded)

IV. Practical stability, boundedness criteria and Lagrange stability of fuzzy differential systems Yakar C., Cicek M., Gucen M. B.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.64, no.6, pp.2118-2127, 2012 (SCI-Expanded)

V. Boundedness and Lagrange stability of fractional order perturbed system related to unperturbed systems with initial time difference in Caputo's sense

Yakar C., Cicek M., GÜCEN M. B.

ADVANCES IN DIFFERENCE EQUATIONS, 2011 (SCI-Expanded)

Articles Published in Other Journals

I. Strict Stability of Fuzzy Differential Equations by Lyapunov Functions

Gücen M. B., Yakar C.

International Journal of Computer and Information Engineering, vol.12, pp.315-319, 2018 (Peer-Reviewed Journal)

II. Strict Stability Criteria of Unperturbed Systems with Initial Time Difference

Gücen M. B., Yakar C.

Journal of Concrete and Applicable Mathematics, vol.9, no.3, pp.213-222, 2011 (Peer-Reviewed Journal)

III. A Special Application Of The Power Series Expansion Method To Nonlinear Fractional Order Differential Equations

GÜCEN M. B.

Nonlinear Science Letters A, vol.2, no.1, pp.47-52, 2011 (Peer-Reviewed Journal)

Books & Book Chapters

I. Initial Time Difference Strict Stability of Fractional Dynamic Systems

Yakar C., Gücen M. B.

in: Fractional Dynamics and Control, Dumitru Baleanu, José António Tenreiro Machado, Albert C. J. Luo, Editor, Springer, London/Berlin, New-York, pp.133-144, 2012

II. Strict Stability of Fractional Perturbed Systems in Terms of Two Measures

Yakar C., Gücen M. B., Çiçek M.

in: Fractional Dynamics and Control, Dumitru Baleanu, José António Tenreiro Machado, Albert C. J. Luo, Editor, Springer, London/Berlin, New-York, pp.119-132, 2012

Refereed Congress / Symposium Publications in Proceedings

I. Diabetes Data Analysis via Gaussian Membership Functions with Deep Neural Networks GÜCEN M. B., Aykut Karaboga H.

3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11-13 October 2019

II. Initial Time Difference Stability of Fuzzy Differential Equations By Lyapunov Functions Gücen M. B., Yakar C.

International Conference on Mathematics: An Istanbul Meeting for World Mathematicians including Minisymposium on Approximation Theory and Minisymposium on Mathematics Education (ICOMATH 2018), İstanbul, Turkey, 3 - 06 July 2018, pp.1-2

III. Practical Stability Analyses of Fuzzy Dynamic Systems of Perturbed Systems with respect to Unperturbed Systems with Initial Time Difference

Gücen M. B., Yakar C.

", International Conference on Mathematics: An Istanbul Meeting for World Mathematicians including Minisymposium on Approximation Theory and Minisymposium on Mathematics Education (ICOMATH 2018), İstanbul, Turkey, 3 - 06 July 2018, pp.1-2

IV. Strict Stability of Fuzzy Differential Equations by Lyapunov Functions

Gücen M. B., Yakar C.

20th International Conference on Fuzzy Systems and Neural Computing, Berlin, Germany, 21 - 22 May 2018, pp.2327-2331

V. Strict Stability of Unperturbed Fuzzy Differential Equations

Gücen M. B., Yakar C.

", INTERNATIONAL CONFERENCE on MATHEMATICAL ADVANCES and APPLICATIONS (ICOMAA2018), İstanbul, Turkey, 11 - 13 May 2018, pp.1-2

VI. Practical Stability Analyses of Nonlinear Fuzzy Dynamic Systems of Unperturbed Systems with Initial Time Difference

Gücen M. B., Yakar C.

Algebraic Hyperstructures and its Applications Conference (AHA 2017), İstanbul, Turkey, 24 - 27 July 2017, pp.1-2

VII. Stability analysis of nonlinear fuzzy dynamic systems of unperturbed systems with initial time difference

Gücen M. B., Yakar C.

2nd International Conference on Pure & Applied Science, İstanbul, Turkey, 1 - 05 June 2016, pp.1

VIII. Soyut Uzaylarda Sabitlerin Değişimi ve Başlangıç Zaman Farklı bir Uygulama

GÜCEN M. B., YAKAR C.

8. ANKARA MATEMATİK GÜNLERİ, 01 June 2013

IX. Strict Stability Criteria of Fractional Order Differential Equations in Caputo's Sense GÜCEN M. B., YAKAR C.

ICAAA 2011, 01 July 2011, vol.1, pp.209

X. Practical Stability In Terms Of Two Measures For Fractional Order Dynamic Systems In Caputo's Sense With Initial Time Difference

Gücen M. B., Yakar C., Çiçek M.

ICAAA 2011, İstanbul, Turkey, 29 - 30 June 2011, pp.1-2

XI. Construction Of Periodic And Solitary Wave Solutions For The Complex Nonlinear Evolution Equations Gücen M. B., Çevikel A. C., San S., Bekir A.

ICAAA 2011, İstanbul, Turkey, 29 - 30 June 2011, pp.1-2

XII. Caputo Anlamında Başlangıç Zaman Farklı Fraksiyonel Dinamik Sistemler için Lagrange Kararlılık ve Sınırlılık Kriteri

Yakar C., Gücen M. B., Çiçek M.

6. AMG 2011, Ankara, Turkey, 2 - 03 June 2011, pp.1-2

XIII. Strict Stability Criteria of Unperturbed Systems with Initial Time Difference

Gücen M. B., Yakar C.

Third International Interdisciplinary Chaos Symposium on Chaos and Complex Systems, İstanbul, Turkey, 21 - 24 May 2010, pp.1-4

XIV. Strict Stability Criteria of Fractional Order Differential Equations in Caputo's Sense in Terms of Two Measures with Initial Time Diference

Gücen M. B., Yakar C., Çiçek M.

Conference on New Trends in Nanotechnology and Nonlinear Dynamical Systems, Ankara, Turkey, 25 - 27 July 2010, pp.1-8

XV. Lineer Olmayan Diferansiyel Denklemler için Başlangıç Zaman Farklı Sınrlılık ve Lagrange Stabilite Kriteri

Gücen M. B., Yakar C., Çiçek M.

XXIII. Ulusal Matematik Sempozyumu. UMS23, Kayseri, Turkey, 4 - 07 August 2010, pp.1-2

XVI. Initial Time Difference Strict Stability Criteria of Fractional Order Differential Equations in Caputo's Sense at Çankaya University Department of Mathematics. Ankara, Turkey. 25 – 27 July, 2010.

Gücen M. B., Yakar C.

Conference on New Trends in Nanotechnology and Nonlinear Dynamical Systems, NTNDS10, Ankara, Turkey, 25 - 27 July 2010, pp.1-2

XVII. Pertörb Olmayan Sistemlerin Başlangıç Zaman Farklı İki Ölçü Cinsinden Kesin Kararlılık Kriterleri Gücen M. B., Yakar C.

V. Ankara Matematik Günleri Ulusal Matematik Sempozyumu, Ankara, Turkey, 3 - 04 June 2010, pp.1-2

Scientific Refereeing

The Journal of The Franklin Institute, Journal Indexed in SSCI, March 2016

Metrics

Publication: 27 Citation (WoS): 36 Citation (Scopus): 48 H-Index (WoS): 4 H-Index (Scopus): 4

Congress and Symposium Activities

13th Algebraic Hyperstructures and its Applications Conference, Attendee, İstanbul, Turkey, 2017 2nd International Conference on Pure and Applied Sciences, Attendee, İstanbul, Turkey, 2016