

## Arş. Gör. Dr. Mustafa Bayram GÜCEN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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

ScopusID: 55209866900

Yoksis Araştırmacı ID: 51811

### Eğitim Bilgileri

Doktora, Gebze Teknik Üniversitesi, Temel Bilimler Fakültesi, Matematik Bölümü, Türkiye 2011 - 2019

Yüksek Lisans, Gebze Teknik Üniversitesi, Temel Bilimler Fakültesi, Matematik Bölümü, Türkiye 2009 - 2011

Lisans, Anadolu Üniversitesi, İşletme Fakültesi, İşletme Bölümü, Türkiye 2006 - 2010

Lisans, Gebze Teknik Üniversitesi, Temel Bilimler Fakültesi, Matematik Bölümü, Türkiye 2004 - 2009

### Yabancı Diller

İngilizce, C2 Ustalık

### Yaptığı Tezler

Doktora, Stability Analyses of Nonlinear Fuzzy Dynamic Systems of Perturbed Systems with respect to Unperturbed Systems with Initial Time Difference, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2019

Yüksek Lisans, Lineer olmayan dinamik sistemler için stabilite ve kesin stabilite kriterleri, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2011

### Araştırma Alanları

Matematik, Bilgisayar Bilimleri, Diferansiyel denklemler, Temel Bilimler

### Akademik Unvanlar / Görevler

Araştırma Görevlisi Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - Devam Ediyor

### Verdiği Dersler

## Lisans

MATEMATİK 1, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020

Lineer Cebir, Lisans, 2021 - 2022

MATEMATİK 2, Lisans, 2020 - 2021, 2019 - 2020

Diferansiyel Denklemler, Lisans, 2019 - 2020

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

- I. **Construction of periodic and solitary wave solutions for the complex nonlinear evolution equations**  
ÇEVİKEL A. C., Bekir A., San S., GÜCEN M. B.  
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, cilt.351, sa.2, ss.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, cilt.351, sa.2, ss.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, cilt.2014, 2014 (SCI-Expanded)
- IV. **Practical stability, boundedness criteria and Lagrange stability of fuzzy differential systems**  
Yakar C., Cicek M., Guçen M. B.  
COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.64, sa.6, ss.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)

## Diğer Dergilerde Yayınlanan Makaleler

- I. **Strict Stability of Fuzzy Differential Equations by Lyapunov Functions**  
Güçen M. B., Yakar C.  
International Journal of Computer and Information Engineering, cilt.12, ss.315-319, 2018 (Hakemli Dergi)
- II. **Strict Stability Criteria of Unperturbed Systems with Initial Time Difference**  
Güçen M. B., Yakar C.  
Journal of Concrete and Applicable Mathematics, cilt.9, sa.3, ss.213-222, 2011 (Hakemli Dergi)
- III. **A Special Application Of The Power Series Expansion Method To Nonlinear Fractional Order Differential Equations**  
GÜCEN M. B.  
Nonlinear Science Letters A, cilt.2, sa.1, ss.47-52, 2011 (Hakemli Dergi)

## Kitaplar

- I. **Initial Time Difference Strict Stability of Fractional Dynamic Systems**  
Yakar C., Güçen M. B.  
Fractional Dynamics and Control, Dumitru Baleanu, José António Tenreiro Machado, Albert C. J. Luo, Editör,  
Springer, London/Berlin , New-York, ss.133-144, 2012

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

Yakar C., Gücen M. B., Çiçek M.

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

## **Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler**

- 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, Türkiye, 11 - 13 Ekim 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, Türkiye, 3 - 06 Temmuz 2018, ss.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, Türkiye, 3 - 06 Temmuz 2018, ss.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, Almanya, 21 - 22 Mayıs 2018, ss.2327-2331
- V. **Strict Stability of Unperturbed Fuzzy Differential Equations**  
Gücen M. B., Yakar C.  
", INTERNATIONAL CONFERENCE on MATHEMATICAL ADVANCES and APPLICATIONS (ICOMAA2018), İstanbul, Türkiye, 11 - 13 Mayıs 2018, ss.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, Türkiye, 24 - 27 Temmuz 2017, ss.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, Türkiye, 1 - 05 Haziran 2016, ss.1
- VIII. **Soyut Uzaylarda Sabitlerin Değişimi ve Başlangıç Zaman Farklı bir Uygulama**  
GÜCEN M. B., YAKAR C.  
8. ANKARA MATEMATİK GÜNLERİ, 01 Haziran 2013
- IX. **Strict Stability Criteria of Fractional Order Differential Equations in Caputo' s Sense**  
GÜCEN M. B., YAKAR C.  
ICAAA 2011, 01 Temmuz 2011, cilt.1, ss.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, Türkiye, 29 - 30 Haziran 2011, ss.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, Türkiye, 29 - 30 Haziran 2011, ss.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, Türkiye, 2 - 03 Haziran 2011, ss.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, Türkiye, 21 - 24 Mayıs 2010, ss.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, Türkiye, 25 - 27 Temmuz 2010, ss.1-8

XV. **Lineer Olmayan Diferansiyel Denklemler için Başlangıç Zaman Farklı Sınırlılık ve Lagrange Stabilitite Kriteri**

Gücen M. B., Yakar C., Çiçek M.

XXIII. Ulusal Matematik Sempozyumu. UMS23 , Kayseri, Türkiye, 4 - 07 Ağustos 2010, ss.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, Türkiye, 25 - 27 Temmuz 2010, ss.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, Türkiye, 3 - 04 Haziran 2010, ss.1-2

## Bilimsel Yayınlarda Hakemlikler

The Journal of The Franklin Institute, SSCI Kapsamındaki Dergi, Mart 2016

## Metrikler

Yayın: 27

Atf (WoS): 36

Atf (Scopus): 72

H-İndeks (WoS): 4

H-İndeks (Scopus): 4

## Kongre ve Sempozyum Katılımı Faaliyetleri

13th Algebraic Hyperstructures and its Applications Conference, Katılımcı, İstanbul, Türkiye, 2017

2nd International Conference on Pure and Applied Sciences, Katılımcı, İstanbul, Türkiye, 2016