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Education Information

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

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

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

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

Foreign Languages

English, C2 Proficiency

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

Post Graduate, Lineer 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, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Matematik, 2009 - Continues

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

- 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, vol.351, pp.694-700, 2014
(Journal Indexed in SCI)
- 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, pp.732-742, 2014
(Journal Indexed in SCI)

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 (Journal Indexed in SCI Expanded)

IV. Practical stability, boundedness criteria and Lagrange stability of fuzzy differential systems

Yakar C., Cicek M., Gučen M. B.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.64, pp.2118-2127, 2012 (Journal Indexed in SCI)

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 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Strict Stability of Fuzzy Differential Equations by Lyapunov Functions

Güçen M. B. , Yakar C.

International Journal of Computer and Information Engineering, vol.12, pp.315-319, 2018 (Refereed Journals of Other Institutions)

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

Güçen M. B. , Yakar C.

Journal of Concrete and Applicable Mathematics, vol.9, pp.213-222, 2011 (Refereed Journals of Other Institutions)

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, pp.47-52, 2011 (Refereed Journals of Other Institutions)

Books & Book Chapters

I. Initial Time Difference Strict Stability of Fractional Dynamic Systems

Yakar C., Güçen 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., Güçen 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

Güçen 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 Sınırlılık ve Lagrange Stabilitè 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

Invited 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

Citations

Total Citations (WOS):24

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