

## Asst. Prof. MUSA ÇAKMAK

### Personal Information

**Email:** musacakmak@mku.edu.tr

**Web:** <https://avesis.mku.edu.tr/musacakmak>

### International Researcher IDs

ORCID: 0000-0001-6791-0971

Yoksis Researcher ID: 153342

### Education Information

Doctorate, Selcuk University, Turkey 2011 - 2016

Postgraduate, Turkey 2009 - 2011

Undergraduate, Ege University, Turkey 1997 - 1999

Undergraduate, Turkey 1995 - 1997

### Foreign Languages

English

### Dissertations

Doctorate, Pantograf denklemlerin çözümünde Fibonacci polinom yaklaşımları ve yakınsaklığı, Selcuk University, 2016

Postgraduate, Hausdorff uzayların h-kapalı ve minimal hausdorff genişlemeleri, 2011

### Academic Titles / Tasks

Hatay Mustafa Kemal University, YAYLADAĞI SOSYAL BİLİMLER MESLEK YÜKSEKOKULU, 2020 - Continues  
2019 - 2020

Hatay Mustafa Kemal University, YAYLADAĞI SOSYAL BİLİMLER MESLEK YÜKSEKOKULU, 2017 - 2019  
Lecturer, 2009 - 2017

### Academic and Administrative Experience

Hatay Mustafa Kemal University, 2022 - Continues

Hatay Mustafa Kemal University, 2021 - Continues

Hatay Mustafa Kemal University, 2017 - 2019

### Courses

Finans Matematiği, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021

Girişimcilik, Associate Degree, 2023-2024, 2022-2023

Araştırma Yöntem ve Teknikleri, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021  
Bilgi ve İletişim Teknolojisi, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2017-2018  
Paket Programları, Associate Degree, 2023-2024, 2022-2023  
Meslek Etiği, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2017-2018  
Toplumsal Hizmet Projesi, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2017-2018  
Paket Programları II, Associate Degree, 2023-2024  
Ticari Belgeler, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021  
Temel Bilgi Teknolojileri, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2017-2018  
İstatistik, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2017-2018  
Ticari Matematik, Associate Degree, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2017-2018  
Dış Ticaret İşlemleri Yönetimi, Associate Degree, 2022-2023  
İletişim, Associate Degree, 2022-2023  
İnsan Kaynakları Yönetimi, Associate Degree, 2021-2022, 2020-2021  
İstatistik, Associate Degree, 2019-2020, 2015-2016, 2014-2015, 2013-2014, 2012-2013, 2011-2012, 2010-2011, 2009-2010, 2008-2009  
Ticari Matematik, Associate Degree, 2019-2020, 2016-2017, 2015-2016, 2014-2015, 2013-2014, 2012-2013, 2011-2012, 2010-2011, 2009-2010, 2008-2009  
Sigorta Tür ve Analizleri, Associate Degree, 2018-2019  
Sigortacılığa Giriş, Associate Degree, 2018-2019  
Uluslararası Taşımacılık ve Sigorta Hukuku, Associate Degree, 2018-2019  
Yönetim ve Organizasyon, Associate Degree, 2018-2019  
Uluslararası Taşıma ve Sigorta Hukuku, Associate Degree, 2018-2019  
İş Sağlığı ve Güvenliği, Associate Degree, 2017-2018  
Elektronik Ticaret, Associate Degree, 2017-2018  
Bilgi ve İletişim Teknolojisi, Associate Degree, 2016-2017, 2015-2016, 2014-2015, 2013-2014  
İstatistik I, Undergraduate, 2016-2017  
Temel Bilgi Teknolojileri I, Associate Degree, 2016-2017, 2014-2015  
İş Sağlığı ve Güvenliği, Associate Degree, 2016-2017, 2015-2016, 2013-2014  
Elektronik Ticaret, Associate Degree, 2016-2017, 2015-2016, 2014-2015, 2013-2014, 2012-2013  
İnsan Kaynakları Yönetimi, Associate Degree, 2016-2017  
İstatistik II, Undergraduate, 2016-2017  
Matematik, Associate Degree, 2015-2016, 2013-2014, 2011-2012, 2010-2011  
Temel Bilgi ve Teknolojileri I, Associate Degree, 2015-2016  
Toplumsal Hizmet Projesi, Associate Degree, 2015-2016  
Kalite Güvencesi ve Standartlar, Associate Degree, 2015-2016  
Meslek Etiği, Associate Degree, 2015-2016, 2014-2015  
İş ağılığı ve Güvenliği, Associate Degree, 2014-2015  
Kalite Güvencesi ve Stantdartlar, Associate Degree, 2014-2015  
Toplam Kalite Yönetimi, Associate Degree, 2014-2015  
Araştırma Yöntem ve Teknikleri, Associate Degree, 2014-2015, 2013-2014  
Bilgisayara Giriş, Associate Degree, 2013-2014, 2012-2013, 2009-2010, 2008-2009  
Mesleki Çalışma ve Semineri, Associate Degree, 2013-2014  
Ofis Programları II, Associate Degree, 2013-2014, 2012-2013  
Web Tasarımı, Associate Degree, 2013-2014, 2012-2013, 2011-2012, 2010-2011, 2009-2010  
Ofis Programları I, Associate Degree, 2013-2014  
Bilgisayar I, Associate Degree, 2013-2014, 2011-2012, 2009-2010  
Pazarlama Araştırması, Associate Degree, 2012-2013, 2011-2012  
Ofis Programları, Associate Degree, 2012-2013  
Bilgisayar Büro Programları, Associate Degree, 2012-2013, 2010-2011  
Bilgisayar II, Undergraduate, 2011-2012, 2010-2011, 2009-2010, 2008-2009  
Bilgisayar, Associate Degree, 2010-2011

Mesleki Çalışma ve Semineri II, Associate Degree, 2010-2011

Mesleki Çalışma ve Seminer, Associate Degree, 2010-2011

Matematik II, Associate Degree, 2009-2010

Matematik I, Associate Degree, 2009-2010

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Fibonacci collocation method for solving a class of nonlinear pantograph differential equations**  
ÇAKMAK M.  
Mathematical Methods in the Applied Sciences, vol.45, no.17, pp.11962-11976, 2022 (SCI-Expanded)
- II. **A numerical method for solving a class of systems of nonlinear Pantograph differential equations**  
ÇAKMAK M., Alkan S.  
Alexandria Engineering Journal, vol.61, no.4, pp.2651-2661, 2022 (SCI-Expanded)
- III. **Some New Inequalities for Differentiable h-Convex Functions and Applications**  
ÇAKMAK M., Tunç M., Acem A.  
Miskolc Mathematical Notes, vol.22, no.1, pp.107-121, 2021 (SCI-Expanded)
- IV. **A matrix method based on the Fibonacci polynomials to the generalized pantograph equations with functional arguments**  
Koç A. B., ÇAKMAK M., Kurnaz A.  
Advances in Mathematical Physics, vol.2014, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Generalizations of Hermite-Hadamard, Bullen, and Simpson inequalities via h-convexity**  
ÇAKMAK M., TUNÇ M.  
General Mathematics, vol.30, no.1, pp.77-95, 2023 (Peer-Reviewed Journal)
- II. **Fibonacci collocation method for solving a class of nonlinear differential equations**  
ÇAKMAK M., ALKAN S.  
Turkish Journal of Mathematics and Computer Science, vol.15, no.1, pp.42-53, 2023 (Peer-Reviewed Journal)
- III. **Pell polynomial approach for solving a class of systems of nonlinear differential equations**  
ÇAKMAK M., ALKAN S.  
Advanced Studies: Euro-Tbilisi Mathematical Journal, vol.10, no.2022, pp.1-15, 2022 (Peer-Reviewed Journal)
- IV. **Fibonacci collocation method for solving a class of systems of nonlinear differential equations**  
ALKAN S., ÇAKMAK M.  
New Trends in Mathematical Science, vol.9, no.4, pp.11-24, 2021 (Peer-Reviewed Journal)
- V. **On Some Bullen Type Quantum Integral Inequalities**  
ÇAKMAK M.  
Journal of Abstract and Computational Mathematics, vol.6, no.3, pp.8-14, 2021 (Peer-Reviewed Journal)
- VI. **THE DIFFERENTIABLE H-CONVEX FUNCTIONS INVOLVING THE BULLEN INEQUALITY**  
ÇAKMAK M.  
Acta Universitatis Apulensis, vol.65, no.2021, pp.29-36, 2021 (Peer-Reviewed Journal)
- VII. **Some Bullen-type inequalities for conformable fractional integrals**  
ÇAKMAK M.  
GENERAL MATHEMATICS, vol.28, no.2, pp.3-17, 2020 (Peer-Reviewed Journal)
- VIII. **Some Hadamard and Simpson type inequalities via s-convexity and their applications**  
ÇAKMAK M., TUNÇ M.  
GENERAL MATHEMATICS, vol.28, no.1, pp.25-39, 2020 (Peer-Reviewed Journal)
- IX. **Refinements of bullen-type inequalities for s-convex functions via Riemann-Liouville fractional integrals involving Gauss hypergeometric function**

ÇAKMAK M.

JOURNAL OF INTERDISCIPLINARY MATHEMATICS, vol.22, no.6, pp.975-989, 2019 (Scopus)

X. **A GENERALIZATION OF CHEBYSHEV POLYNOMIALS WITH WELL-KNOWN KINDS AND TRANSITION RELATIONS**

ÇAKMAK M., USLU K.

Acta Universitatis Apulensis, vol.57, no.2019, pp.19-30, 2019 (Peer-Reviewed Journal)

XI. **ON SOME BULLEN-TYPE INEQUALITIES VIA CONFORMABLE FRACTIONAL INTEGRALS**

ÇAKMAK M.

JOURNAL OF SCIENTIFIC PERSPECTIVES, vol.3, no.4, pp.285-298, 2019 (Peer-Reviewed Journal)

XII. **Fibonacci Operational Matrix Algorithm For Solving Differential Equations Of Lane-Emden Type**

ÇAKMAK M.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.23, no.3, pp.478-485, 2019 (Peer-Reviewed Journal)

XIII. **HADAMARD, SIMPSON AND OSTROWSKI TYPE INEQUALITIES FOR E-CONVEXITY**

ÇAKMAK M.

JOURNAL OF SCIENTIFIC PERSPECTIVES, vol.3, no.2, pp.141-158, 2019 (Peer-Reviewed Journal)

XIV. **Refinements of Bullen-Type Inequalities for Different Kind of Convex Functions via Riemann-Liouville Fractional Integrals Involving Gauss Hypergeometric Function**

ÇAKMAK M.

GENERAL MATHEMATICS, vol.26, pp.41-55, 2018 (Peer-Reviewed Journal)

XV. **HADAMARD TYPE INEQUALITIES FOR S-GEO-CONVEX FUNCTIONS**

ÇAKMAK M., TUNÇ M.

Proceedings of the Institute of Applied Mathematics, vol.7, no.1, pp.3-18, 2018 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

I. **The numerical solutions of fractional differential equations with beta-derivative**

ALKAN S., ÇAKMAK M.

New Trends in Mathematical Sciences; Istanbul Vol. 10, Iss. 1, (Jun 2022): 77-81. DOI:10.20852/ntmsci.2022.467, İstanbul, Turkey, 21 January 2022, vol.9, pp.77-81

II. **On Some Bullen Type Quantum Integral Inequalities**

ÇAKMAK M.

FIRST ONLINE CONFERENCE ON MODERN FRACTIONAL CALCULUS AND ITS APPLICATIONS (OCMFCA-2020), İstanbul, Turkey, 4 - 06 December 2020

III. **Some new inequalities for n-polynomial convex functions and applications**

ÇAKMAK M.

3rd International Conference on Pure and Applied Mathematics (ICPAM-VAN 2020), Van, Turkey, 3 - 05 September 2020

IV. **A Generalization of Hermite- Hadamard, Bullen and Simpson Inequalities via h-Convexity.**

ÇAKMAK M.

INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS IN SCIENCE AND ENGINEERING (ICMASE 2020), Ankara, Turkey, 9 - 10 July 2020

V. **Refinements of Bullen-Type Inequalities for s-Convex Functions via Riemann-Liouville Fractional Integrals**

ÇAKMAK M.

INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS IN SCIENCE AND ENGINEERING (ICMASE 2020), Ankara, Turkey, 9 - 10 July 2020

VI. **The solution of Pantograph equation with variable coefficients by the collocation method based on the fibonacci polynomials**

ÇAKMAK M., KURNAZ A.

The second international conference on mathematics and statistics, 2 - 05 April 2015

**VII. Collocation type solution procedure with new operational matrices**

KOÇ A. B., ÇAKMAK M., KURNAZ A.

4th Int. Conf. on Matrix Analysis Appl., 2 - 05 July 2013

**VIII. A generalization of Chebyshev polynomials of well-known kinds and transition relations**

ÇAKMAK M., KURNAZ A., USLU K., KÖSE H.

4th Int. Conf. on Matrix Analysis Appl., 2 - 05 July 2013

**Metrics**

Publication: 27

Citation (Scopus): 40

H-Index (Scopus): 3