

# Prof. EMİN ÖZÇAĞ

## Personal Information

Office Phone: [+90 312 297 7879](tel:+903122977879)

Fax Phone: [+90 312 299 2017](tel:+903122992017)

Email: [ozcag1@hacettepe.edu.tr](mailto:ozcag1@hacettepe.edu.tr)

## Education Information

Doctorate, University Of Leicester, Science Faculty, Mathematics, United Kingdom 1989 - 1993

Post Graduate, Hacettepe Üniversitesi, Fen Bilimleri, Matematik, Turkey 1984 - 1986

## Research Areas

Mathematics, Functional Analysis, Natural Sciences

## Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2001 - Continues

Associate Professor, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1996 - 2001

Assistant Professor, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1994 - 1996

## Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1999 - Continues

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2003 - 2012

Hacettepe Üniversitesi, Fen Fakültesi, 1999 - 2001

## Courses

MTK409 Çalışma Metodları I, Under Graduate, 2017 - 2018

MTK111-03 Analiz I, Under Graduate, 2016 - 2017, 2017 - 2018

MTK111-02 Analiz I, Under Graduate, 2016 - 2017, 2017 - 2018

MTK410 Bilg. Destekli Matematik Proj. I, Under Graduate, 2017 - 2018

MTK497 Bilgisayar Dest. Mat. Proj. I, Under Graduate, 2016 - 2017

MTK409 Çalışma Metodları, Under Graduate, 2016 - 2017

## Advising Theses

ÖZÇAĞ E., Bazı singular genelleştirilmiş fonksiyonların neutrix kompozisyonları, Post Graduate, İ.AKTÜRK(Student), 2014

ÖZÇAĞ E., Neutrixler ve gama fonksiyonu, Post Graduate, B.YILDIZ(Student), 2011

ÖZÇAĞ E., Neutrix calculus'un tam olmayan beta ve gama özel fonksiyonlarına ve kısmi türevlerine olan uygulamaları,

Doctorate, İ.EGE(Student), 2009

ÖZÇAĞ E., n-kıŖi oyunlarda denge noktaları, Post Graduate, A.KESİNBAŞOĞLU(Student), 2009

ÖZÇAĞ E., Neutrix Calculus'un genelleŖtirilmiŖ fonksiyonlar uzayına uygulamaları, Doctorate, Ü.GÜLEN(Student), 2005

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

- I. **Interpretations of some distributional compositions related to Dirac delta function via Fisher's method**  
ÖZÇAĞ E.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.114, no.4, 2020 (Journal Indexed in SCI)
- II. **Note on the Distribution Composition  $(x(+)(\mu))(\lambda)$**   
Lazarova L., Jolevska-Tuneska B., Akturk I., ÖZÇAĞ E.  
BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, vol.41, no.2, pp.709-721, 2018 (Journal Indexed in SCI)
- III. **On Powers of the Compositions Involving Dirac-Delta and Infinitely Differentiable Functions**  
ÖZÇAĞ E.  
RESULTS IN MATHEMATICS, vol.73, no.1, 2018 (Journal Indexed in SCI)
- IV. **Remarks on polygamma and incomplete gamma type functions**  
ÖZÇAĞ E., Ege I.  
JOURNAL OF NUMBER THEORY, vol.169, pp.369-387, 2016 (Journal Indexed in SCI)
- V. **Integrability Analysis of a Two-Component Burgers-Type Hierarchy**  
Blackmore D., PRYKARPATSKY A. K. , ÖZÇAĞ E., SOLTANOV K.  
UKRAINIAN MATHEMATICAL JOURNAL, vol.67, no.2, pp.167-185, 2015 (Journal Indexed in SCI)
- VI. **Some Remarks on Incomplete Gamma Type Function  $\gamma^{*}(\alpha, x(-))$**   
ÖZÇAĞ E., Ege I.  
FILOMAT, vol.29, no.1, pp.125-131, 2015 (Journal Indexed in SCI)
- VII. **Differential-algebraic approach to constructing representations of commuting differentiations in functional spaces and its application to nonlinear integrable dynamical systems**  
Prykarpatski A. K. , Soltanov K. N. , ÖZÇAĞ E.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.19, no.5, pp.1644-1649, 2014 (Journal Indexed in SCI)
- VIII. **Some results on the neutrix composition of the delta function**  
Fisher B., ÖZÇAĞ E.  
FILOMAT, vol.26, no.6, pp.1247-1256, 2012 (Journal Indexed in SCI)
- IX. **On partial derivatives of the incomplete beta function**  
ÖZÇAĞ E., Ege I., GÜRÇAY H., Jolevska-Tuneska B.  
APPLIED MATHEMATICS LETTERS, vol.21, no.7, pp.675-681, 2008 (Journal Indexed in SCI)
- X. **ON THE COMPOSITION OF THE DISTRIBUTIONS  $x(-1) \ln(m)$  vertical bar  $x$  vertical bar AND  $x(r)$**   
Fisher B., Ege I., ÖZÇAĞ E.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.37, no.1, pp.1-8, 2008 (Journal Indexed in SCI)
- XI. **ON DIFFERENTIAL EQUATIONS WITH NONSTANDARD COEFFICIENTS**  
Jolevska-Tuneska B., Takaci A., ÖZÇAĞ E.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.1, no.1, pp.276-283, 2007 (Journal Indexed in SCI)
- XII. **On powers of the Heaviside function for negative integers**  
Ozcag E., Ege I., Gurcay H.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.326, no.1, pp.101-107, 2007 (Journal Indexed in SCI)
- XIII. **On the noncommutative neutrix product of distributions**  
ÖZÇAĞ E., Ege I., Guercay H., Jolevska-Tuneska B.  
ABSTRACT AND APPLIED ANALYSIS, 2007 (Journal Indexed in SCI)

#### XIV. RESULTS ON THE NEUTRIX COMPOSITION OF THE DELTA FUNCTION

Fisher B., Kraiweeradechachai T., ÖZÇAĞ E.

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.36, no.2, pp.147-156, 2007 (Journal Indexed in SCI)

#### Articles Published in Other Journals

- I. **The composition of the distributions  $x^{(-)}(\lambda) \ln(s) x^{(-)}$  and  $x^{+}(-r/\lambda)$**   
Fisher B., ÖZÇAĞ E.  
ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.13, no.3, 2020 (Journal Indexed in ESCI)
- II. **ON THE COMPOSITION AND NEUTRIX COMPOSITION OF THE DELTA FUNCTION AND THE FUNCTION  $\cosh(-1)$  (vertical bar  $x$  vertical bar  $(1/r) + 1$ )**  
Fisher B., ÖZÇAĞ E., Al-Sirehy F.  
INTERNATIONAL JOURNAL OF ANALYSIS AND APPLICATIONS, vol.13, no.2, pp.161-169, 2017 (Journal Indexed in ESCI)
- III. **Defining distribution composition (vertical bar  $x$  vertical bar  $(\mu)$ )(-s)**  
ÖZÇAĞ E.  
ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.9, no.3, 2016 (Journal Indexed in ESCI)
- IV. **Defining Compositions of  $x^{(\mu)+}$ ,  $|x|^{(\mu)}$ ,  $x^{(-s)}$ , and  $x^{(-s)} \ln |x|$  as Neutrix Limit of Regular Sequences**  
ÖZÇAĞ E., Lazarova L., Jolevska-Tuneska B.  
COMMUNICATIONS IN MATHEMATICS AND STATISTICS, vol.4, no.1, pp.63-80, 2016 (Journal Indexed in ESCI)

#### Supported Projects

ÖZÇAĞ E., Project Supported by Higher Education Institutions, Neutrix kalkülüsün geliştirilmiş fonksiyonlar üzerinde tanımlı işlemlere olan uygulamaları üzerine sonuçlar, 2017 - 2017

ÖZÇAĞ E., Project Supported by Higher Education Institutions, Dirac delta ve sonsuz mertebeden türevlenebilir fonksiyon ile ilgili kompozisyonların kuvvetlerinin tanımlanması, 2017 - 2017

ÖZÇAĞ E., Project Supported by Higher Education Institutions, Dirac-delta ve Heaviside Fonksiyonlarının Bazı Kompozisyonları, 2016 - 2017

ÖZÇAĞ E., Project Supported by Higher Education Institutions,  $x_{+}^{\mu}$ ,  $|x|^{\mu} x^{-s}$  ve  $x^{-s} \ln |x|$  Pseudo-Fonksiyonların kompozisyonlarının Regüler dizilerin neutrix limiti olarak tanımlanması, 2016 - 2016

ÖZÇAĞ E., Project Supported by Higher Education Institutions, Tam olmayan Gama Tipi Fonksiyon Tanımı ve Geliştirilmiş Fonksiyonların Kompozisyonları Üzerine Sonuçlar, 2015 - 2016

#### Citations

Total Citations (WOS):50

h-index (WOS):4