

## Assoc. Prof. ÖZGE CAĞCAĞ YOLCU

### Personal Information

Web: <https://avesis.marmara.edu.tr/14583>

### Education Information

Doctorate, Ondokuz Mayıs University, Institute Of Science, Turkey 2010 - 2013

Postgraduate, Ondokuz Mayıs University, Institute Of Science, Turkey 2008 - 2010

Undergraduate, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Statistics, Turkey 2004 - 2008

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Yeni bir melez bulanık zaman serisi yaklaşımı, Ondokuz Mayıs University, Institute Of Science, 2013

Postgraduate, Ondokuz Mayıs Üniversitesi Beyin Cerrahisi Polikliniği'xxnin istatistiksel simülasyonu ile optimizasyonu, Ondokuz Mayıs University, Institute Of Science, 2010

### Research Areas

Statistics, Statistical Analysis and Applications, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Giresun University, Faculty Of Engineering, Department Of Industrial Engineering, 2018 - 2021

Assistant Professor, Giresun University, Faculty Of Engineering, Department Of Industrial Engineering, 2015 - 2018

Research Assistant, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Statistics, 2009 - 2015

### Academic and Administrative Experience

Deputy Head of Department, Giresun University, Faculty Of Engineering, Department Of Industrial Engineering, 2019 - 2021

### Advising Theses

Cağcağ Yolcu Ö., YENİ BİR EVRİŞİMSEL SİNİR AĞI MODELİ İLE ZAMAN SERİSİ ÖNGÖRÜSÜ, Postgraduate, M.KİRİŞCİ(Student), 2021

Cağcağ Yolcu Ö., SEZGİSEL BULANIK KÜMELERİN BİLEŞENLERİNİN KOMBİNASYONUNA DAYALI ZAMAN SERİSİ ÖNGÖRÜ MODELİ, Postgraduate, Ş.NAZLI(Student), 2021

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

- I. **Identifying the maturity of co-compost of olive mill waste and natural mineral materials: Modelling via ANN and multi-objective optimization**  
Aycan Dumenci N., Cagcag Yolcu Ö., Aydin Temel F., TURAN N. G.  
BIORESOURCETECHNOLOGY, vol.338, 2021 (Journal Indexed in SCI)
- II. **New hybrid predictive modeling principles for ammonium adsorption: The combination of Response Surface Methodology with feed-forward and Elman-Recurrent Neural Networks**  
CAĞCAĞ YOLCU Ö., TEMEL F. A. , KULEYİN A.  
JOURNAL OF CLEANER PRODUCTION, vol.311, 2021 (Journal Indexed in SCI)
- III. **Probabilistic forecasting, linearity and nonlinearity hypothesis tests with bootstrapped linear and nonlinear artificial neural network**  
Yolcu U., Egrioglu E., Bas E., Yolcu Ö., Dalar A. Z.  
JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE, vol.33, no.3, pp.383-404, 2021 (Journal Indexed in SCI)
- IV. **A multilayer perceptron-based prediction of ammonium adsorption on zeolite from landfill leachate: Batch and column studies**  
Temel F. A. , Yolcu Ö., Kuleyin A.  
JOURNAL OF HAZARDOUS MATERIALS, vol.410, 2021 (Journal Indexed in SCI)
- V. **A new fuzzy time series method based on an ARMA-type recurrent Pi-Sigma artificial neural network**  
Kocak C., Dalar A. Z. , Yolcu Ö., Bas E., Egrioglu E.  
SOFT COMPUTING, vol.24, no.11, pp.8243-8252, 2020 (Journal Indexed in SCI)
- VI. **A new intuitionistic fuzzy functions approach based on hesitation margin for time-series prediction**  
Yolcu Ö., Bas E., Egrioglu E., Yolcu U.  
SOFT COMPUTING, vol.24, no.11, pp.8211-8222, 2020 (Journal Indexed in SCI)
- VII. **Intuitionistic time series fuzzy inference system**  
Egrioglu E., Bas E., Yolcu Ö., Yolcu U.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.82, pp.175-183, 2019 (Journal Indexed in SCI)
- VIII. **Single Multiplicative Neuron Model Artificial Neural Network with Autoregressive Coefficient for Time Series Modelling**  
Yolcu Ö., Bas E., Egrioglu E., Yolcu U.  
NEURAL PROCESSING LETTERS, vol.47, no.3, pp.1133-1147, 2018 (Journal Indexed in SCI)
- IX. **Prediction of TAIEX based on hybrid fuzzy time series model with single optimization process**  
Yolcu Ö., Alpaslan F.  
APPLIED SOFT COMPUTING, vol.66, pp.18-33, 2018 (Journal Indexed in SCI)
- X. **A combined robust fuzzy time series method for prediction of time series**  
Yolcu Ö., Lam H.  
NEUROCOMPUTING, vol.247, pp.87-101, 2017 (Journal Indexed in SCI)
- XI. **High order fuzzy time series forecasting method based on an intersection operation**  
Yolcu Ö., YOLCU U., Egrioglu E., ALADAĞ Ç. H.  
APPLIED MATHEMATICAL MODELLING, vol.40, no.19-20, pp.8750-8765, 2016 (Journal Indexed in SCI)
- XII. **A New Robust Regression Method Based on Particle Swarm Optimization**  
Cagcag Ö., YOLCU U., Egrioglu E.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.44, no.6, pp.1270-1280, 2015 (Journal Indexed in SCI)
- XIII. **An enhanced fuzzy time series forecasting method based on artificial bee colony**  
YOLCU U., Cagcag Ö., ALADAĞ Ç. H. , Egrioglu E.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.26, no.6, pp.2627-2637, 2014 (Journal Indexed in SCI)
- XIV. **A Hybrid Fuzzy Time Series Approach Based on Fuzzy Clustering and Artificial Neural Network with Single Multiplicative Neuron Model**  
Yolcu Ö.

MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2013, 2013 (Journal Indexed in SCI)

**XV. A novel seasonal fuzzy time series method**

Alpaslan F., Cagcag Ö., ALADAĞ Ç. H. , Yolcu U., Egrioglu E.

Hacettepe Journal of Mathematics and Statistics, vol.41, no.3, pp.375-385, 2012 (Journal Indexed in SCI Expanded)

**XVI. Reduction of patient waiting time by simulations in Ondokuz Mayıs University Medical Faculty, Department of Neurosurgery**

Alpaslan F., Çağcağ Ö., Eğrioğlu E.

Scientific Research and Essays, vol.6, no.5, pp.1063-1070, 2011 (Journal Indexed in SCI Expanded)

## Articles Published in Other Journals

**I. Consciousness level determination of red meat consumption of pregnant women, Giresun/Turkey province**

BALPETEK KÜLCÜ D., CAĞCAĞ YOLCU Ö.

Journal of Mind and Medical Sciences, vol.7, no.1, pp.79-84, 2020 (Refereed Journals of Other Institutions)

**II. The forecasting of Istanbul stock exchange by using a hybrid fuzzy time series approach**

CAĞCAĞ YOLCU Ö.

Turkish Journal of Fuzzy Systems, vol.5, no.1, pp.10-26, 2014 (Refereed Journals of Other Institutions)

**III. A Novel Seasonal Fuzzy Time Series Method to the Forecasting of Air Pollution Data in Ankara**

EĞRİOĞLU E., ALADAĞ Ç. H. , YOLCU U., BURÇİN ŞEYDA Ç., CAĞCAĞ YOLCU Ö.

American Journal of Intelligent Systems, vol.3, no.1, pp.13-19, 2013 (Refereed Journals of Other Institutions)

**IV. Fuzzy Time Series Method Based on Multiplicative Neuron Model and Membership Values**

EĞRİOĞLU E., ALADAĞ Ç. H. , YOLCU U., BURÇİN ŞEYDA Ç., CAĞCAĞ YOLCU Ö.

American Journal of Intelligent Systems, vol.3, no.1, pp.33-39, 2013 (Refereed Journals of Other Institutions)

**V. A Seasonal Fuzzy Time Series Forecasting Method Based on Gustafson Kessel Fuzzy Clustering**

ALPASLAN F., CAĞCAĞ YOLCU Ö.

Journal of Social and Economic Statistics, vol.2, no.1, pp.1-13, 2012 (Refereed Journals of Other Institutions)

**VI. İstanbul Temiz Su Tüketiminin Bulanık Zaman Serisi Yaklaşımları ile Öngörüsü**

ALPASLAN F., CAĞCAĞ YOLCU Ö., İLTER D., YOLCU U.

TÜİK İstatistik Araştırma Dergisi, vol.9, no.2, pp.1-11, 2012 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

**I. A NEW TIME SERIES PREDICTION METHOD BASED ON INTUITIONISTIC FUZZY C MEANS AND SIGMA PI NEURAL NETWORK**

Yolcu Ö., Bas E., Egrioglu E.

13th International Days of Statistics and Economics, Prague, Czech Republic, 5 - 07 September 2019, pp.231-240

## Citations

Total Citations (WOS):127

h-index (WOS):7