

Assoc. Prof. Talat Şenel

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 1996 - 2000

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), Turkey 1992 - 1995

Undergraduate, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, İstatistik Bölümü, Turkey 1986 - 1990

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bulanık matematiksel programlama ve bir uygulama, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2000

Postgraduate, Karma tam sayılı programlama üzerine bir uygulama, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), 1995

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Ondokuz Mayıs University, Fen Fakültesi, İstatistik Bölümü, 2018 - Continues

Assistant Professor, Ondokuz Mayıs University, Fen Fakültesi, İstatistik Bölümü, 2010 - 2018

Research Assistant, Ondokuz Mayıs University, Fen Fakültesi, İstatistik Bölümü, 1992 - 2006

Academic and Administrative Experience

Ondokuz Mayıs University, 2017 - Continues

Ondokuz Mayıs University, 2010 - 2013

Courses

İSTATİSTİĞE GİRİŞ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
İLERİ YÖNEYLEM ARAŞTIRMALARI, Postgraduate, 2020 - 2021, 2019 - 2020, 2014 - 2015, 2011 - 2012
MODELLEME VE OPTİMİZASYON, Postgraduate, 2020 - 2021
YÖNEYLEM ARAŞTIRMASI, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
İLERİ YÖNEYLEM ARAŞTIRMASI, Undergraduate, 2020 - 2021
OLASILIK VE İSTATİSTİK, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
VERİ ZARFLAMA ANALİZİ, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011
OPTİMİZASYON TEKNİKLERİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
BULANIK MATEMATİKSEL PROGRAMLAMA, Postgraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
OPTİMİZASYON, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
YÖNEYLEM ARAŞTIRMASI II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
BİYOİSTATİSTİK, Undergraduate, 2019 - 2020, 2017 - 2018, 2015 - 2016, 2014 - 2015
OLASILIĞA GİRİŞ I, Undergraduate, 2017 - 2018, 2016 - 2017
YÖNEYLEM ARAŞTIRMASI I, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
ARAŞTIRMA PROJESİ, Undergraduate, 2017 - 2018
OYUNLAR TEORİSİ, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
DEMOGRAFİ, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012
OLASILIĞA GİRİŞ II, Undergraduate, 2016 - 2017, 2010 - 2011
HEDEF PROGRAMLAMA, Doctorate, 2016 - 2017, 2013 - 2014
BULANIK MANTIK, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
TAMSAYILI PROGRAMLAMA, Undergraduate, 2015 - 2016, 2014 - 2015
MÜHENDİSLİKTE İSTATİSTİKSEL YÖNTEMLER, Undergraduate, 2015 - 2016
TEMEL İSTATİSTİK II, Undergraduate, 2014 - 2015
BİLGİSAYAR PROGRAMLAMA I, Undergraduate, 2014 - 2015
ANKET DÜZENLEME, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
Tamsayılı Programlama, Doctorate, 2013 - 2014
RİSK ANALİZİ, Postgraduate, 2011 - 2012, 2010 - 2011
OPTİMİZASYON TEKNİKLERİ, Postgraduate, 2011 - 2012
YÖNEYLEM ARAŞTIRMASI, Doctorate, 2011 - 2012
ETKİLİ İLETİŞİM, Undergraduate, 2011 - 2012, 2010 - 2011
İKTİSATÇILAR İÇİN İSTATİSTİK I, Undergraduate, 2010 - 2011
İKTİSATÇILAR İÇİN İSTATİSTİK II, Undergraduate, 2010 - 2011
EKONOMETRİK YÖNTEMLER, Postgraduate, 2010 - 2011
İŞLETMECİLER İÇİN İSTATİSTİK I, Undergraduate, 2010 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Energy performance evaluation of OECD countries using Bayesian stochastic frontier analysis and Bayesian network classifiers**
Cengiz M. A., Dündar E., ŞENEL T.
JOURNAL OF APPLIED STATISTICS, vol.45, no.1, pp.17-25, 2018 (SCI-Expanded)
- II. **A Bayesian Approach for Evaluation of Determinants of Health System Efficiency Using Stochastic**

Frontier Analysis and Beta Regression

ŞENEL T., Cengiz M. A.

COMPUTATIONAL AND MATHEMATICAL METHODS IN MEDICINE, vol.2016, 2016 (SCI-Expanded)

III. Comparing different sedation medications using generalized estimating equations approach

Cengiz M. A., ŞENEL T., Terzi Y., Murat N., Savaş N.

African Journal of Pharmacy and Pharmacology, vol.4, no.4, pp.130-134, 2010 (SCI-Expanded)

Articles Published in Other Journals

I. Super Efficiency Analysis: An Application on The Efficiency of Programming Languages

GÜNDÜZ K., ŞENEL T.

International Journal of Advanced Research in Engineering Management (IJAREM), vol.5, no.5, pp.27-35, 2019 (Peer-Reviewed Journal)

II. Context-Dependent Data Envelopment Analysis and an Application

PALA M., ŞENEL T.

International Journal of Advanced Research in Engineering Management (IJAREM), vol.5, no.2, pp.1-8, 2019 (Peer-Reviewed Journal)

III. Efficiency Assessment of the Tourism Performance of Turkey using Malmquist Productivity Index

AYDIN S., ŞENEL T.

International Journal of Advanced Research in Engineering Management, vol.3, no.12, pp.28-34, 2017 (Peer-Reviewed Journal)

IV. The Evaluating the Efficiency Performance of Turkish Airports (2010 – 2014)

GÜMÜŞTEKİN S., ŞENEL T., DÜNDER E.

International Journal of Sciences: Basic and Applied Research (IJSBAR), vol.30, no.4, pp.460-473, 2016 (Peer-Reviewed Journal)

V. Samsun daki Hastanelerin Etkinliklerinin Değerlendirilmesinde Veri Zarflama Analizi Kullanılması

ŞENEL T., GÜMÜŞTEKİN S.

International Anatolia Academic Online Journal, vol.3, no.2, pp.53-60, 2015 (Peer-Reviewed Journal)

VI. SAMSUN DAKİ HASTANELERİN ETKİNLİKLERİNİN DEĞERLENDİRİLMESİNDE VERİ ZARFLAMA ANALİZİ KULLANILMASI

ŞENEL T., GÜMÜŞTEKİN S.

international anatolia academic online journal, pp.53-60, 2015 (Peer-Reviewed Journal)

VII. A Comparative Study on Bayesian Optimization Algorithm for Nutrition Problem

GÜMÜŞTEKİN S., ŞENEL T., CENGİZ M. A.

Journal of Food and Nutrition Research, vol.2, no.12, pp.952-958, 2014 (Peer-Reviewed Journal)

VIII. A Bayesian Zero Inflated Model for Modelling The Effect of Air Pollutants on Hospital Admissions and Symptoms for Chronic Obstructive Pulmonary Disease

TERZİ E., ŞENEL T., KOÇ H., CENGİZ M. A.

International Journal of Statistics, vol.38, no.1, pp.1114-1120, 2014 (Peer-Reviewed Journal)

IX. Samsun Bölgesindeki Hava Kirliliğinin Neden Olduğu Hastalıkların İstatistiksel Modellenmesi

CENGİZ M. A., ŞENEL T., TERZİ E., SAVAŞ N., TERZİ Y.

Karadeniz Fen Bilimleri Dergisi, vol.3, no.8, pp.27-36, 2013 (Peer-Reviewed Journal)

X. Doğrusal Regresyonda Markov Zinciri Monte Carlo Yakınsama Kriterlerinin Karşılaştırılması

CENGİZ M. A., ŞENEL T., TERZİ E., TERZİ Y.

International Anatolia Academic Online Journal, vol.1, no.1, pp.27-33, 2013 (Peer-Reviewed Journal)

XI. Beslenme Probleminde Genetik Algoritma Kullanılması

GÜMÜŞTEKİN S., ŞENEL T.

International Anatolia Academic Online Journal, pp.19-26, 2013 (Peer-Reviewed Journal)

XII. Lojistik Regresyonda Parametre Tahmininde Bayesci Bir Yaklaşım

CENGİZ M. A., TERZİ E., ŞENEL T., MURAT N.

Afyon Kocatepe Üniversitesi Fen Bilimleri Dergisi, vol.12, no.1, pp.15-22, 2012 (Peer-Reviewed Journal)

XIII. Bayesian Method of Moments for Modelling Repeated Sedation Measurements

ŞENEL T., TERZİ E., CENGİZ M. A.

Journal of Advanced Scientific Research, vol.3, no.4, pp.78-81, 2012 (Peer-Reviewed Journal)

XIV. A Bayesian Computation for the Prediction of Football Match Results Using Artificial Neural Network

CENGİZ M. A., MURAT N., KOÇ H., ŞENEL T.

International Journal of Scientific Knowledge, vol.1, no.2, pp.25-31, 2012 (Peer-Reviewed Journal)

XV. AN APPLICATION OF LATENT ROOT REGRESSION MODELS TO REAL DATA SET

TERZİ E., ŞENEL T., TERZİ Y., CENGİZ M. A.

e-Journal of New World Sciences Academy, vol.4, no.4, pp.104-109, 2009 (Peer-Reviewed Journal)

XVI. Latent Regresyon Modellerin Gerçek Veri Kümesine Uygulaması

TERZİ E., ŞENEL T., TERZİ Y., CENGİZ M. A.

e-Journal of New World Sciences Academy, vol.4, no.4, pp.104-109, 2009 (Peer-Reviewed Journal)

XVII. Çoklu Doğrusal Regresyonda Model Seçiminde Genelleştirilmiş Toplamsal Modellerin Kullanımı

ŞENEL T., CENGİZ M. A., SAVAŞ N., TERZİ Y.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.2, no.2, pp.217-227, 2009 (Peer-Reviewed Journal)

XVIII. Asymptotic Approximations for Bayesian Inference Summaries

TERZİ E., ŞENEL T., SAVAŞ N.

International Journal of Pure and Applied Mathematics, vol.24, no.4, pp.483-488, 2005 (Peer-Reviewed Journal)

XIX. An Application on Bayesian Inference of Log Linear Models for Contingency Tables

CENGİZ M. A., ŞENEL T., TERZİ E.

International Journal of Applied Mathematics, vol.17, no.2, pp.193-200, 2005 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. TÜRKİYE'DE 30 BÜYÜKŞEHİRDE BULUNAN 2018 VE 2020 YILINDA FAALİYET GÖSTEREN HASTANELERİN (T. C. SAĞLIK BAKANLIĞI'NA BAĞLI ÖZEL VE DEVLET HASTANESİ) ETKİNLİKLERİNİN İNCELENMESİ

BEKTAŞ C., ŞENEL T.

11TH INTERNATIONAL MARDİN ARTUKLU SCIENTIFIC RESEARCHES CONFERENCE, Mardin, Turkey, 13 - 15 December 2023, pp.312-326

II. AĞ OPTİMİZASYONU MODELLERİNDEN ATAMA VE MAKSİMUM AKIŞ PROBLEMLERİNİN PYTHON İLE ÇÖZÜMÜ

OVLYAKULYYEVA B., ŞENEL T.

4TH INTERNATIONAL ACHARAKA CONGRESS ON LIFE, ENGINEERING AND APPLIED SCIENCES, İzmir, Turkey, 15 - 18 July 2023, pp.104-110

III. Ağ Optimizasyonu Modelleri

OVLYAKULYYEVA B., ŞENEL T.

2ND INTERNATIONAL "ARTEMIS" CONGRESS ON LIFE, ENGINEERING AND APPLIED SCIENCES, İzmir, Turkey, 17 - 19 December 2022, pp.152

IV. Ulaştırma Modelleri: R ve Python ile Çözümler

ŞENEL T., Almomayez D.

6TH INTERNATIONAL "BAŞKENT" CONGRESS ON PHYSICAL, SOCIAL AND HEALTH SCIENCES, Ankara, Turkey, 27 August 2022, pp.276

V. TÜRKİYE'DEKİ ŞEKER FABRİKALARININ ETKİNLİKLERİNİN BULANIK VERİ ZARFLAMA ANALİZİ İLE İNCELENMESİ

AYDOĞMUŞ Ö. Ş., ŞENEL T.

3. Uluslararası MARDİN ARTUKLU BİLİMSEL ARAŞTIRMALAR KONGRESİ, Mardin, Turkey, 18 January 2020

VI. İşkur(Türkiye İş Kurumu) İl Müdürlüklerinin Dinamik Veri Zarflama Analizi Yöntemi ile Etkinlik Ölçümü

MERAL S., ŞENEL T.

4th International Scientific Research Congress (UBAK), Yalova, Turkey, 14 - 17 February 2019, pp.200-201

- VII. **Gezgin Satıcı Probleminin Karınca Kolonisi Algoritması ile Çözüm Performansının Arttırılmasında Parametre Optimizasyonu**

AKŞEHİR K., ŞENEL T.

Uluslararası Bilimsel Araştırmalar Kongresi, Nevşehir, Turkey, 9 - 12 September 2018, pp.18-19

- VIII. **Elektrik Dağıtım Bölgelerinin Etkinliğinin Network Veri Zarflama Analizi ile Değerlendirilmesi**

AYDIN S., ŞENEL T.

3rd International Conference on Applied Economics and Finance, 6 - 07 December 2017

- IX. **Malmquist Efficiency Analysis of Wind Turbines in Turkey**

GÜMÜŞTEKİN S., ŞENEL T.

International Conference on Computational and Statistical Methods in Applied Sciences (COSTAS), Samsun, Turkey, 9 - 11 November 2017, pp.236

- X. **Türkiye'nin Turizm Performansının Değerlendirilmesi**

GÜMÜŞTEKİN S., ŞENEL T.

18. Uluslararası Ekonometri Yöneylem Araştırması ve İstatistik Sempozyumu, Trabzon, Turkey, 5 - 07 October 2017, pp.361

- XI. **Türkiye'deki İllerin Çevresel Etkinliğinin Ölçümü: Bootstrap Veri Zarflama Analizi**

ATEŞ M. Ş., ŞENEL T.

18. Uluslararası Ekonometri Yöneylem Araştırması ve İstatistik Sempozyumu, Trabzon, Turkey, 5 - 07 October 2017, pp.243

- XII. **Assessing Electricity Distribution Companies in Turkey : Network Data Envelopment Analysis**

GÜMÜŞTEKİN S., ŞENEL T.

2nd International Conference on Banking and Finance Perspectives, Gazimagusa, Cyprus (Kktc), 21 April 2017

- XIII. **Assessing Renewable Energy Performance in Turkey : A Malmquist Index Analysis**

GÜMÜŞTEKİN S., DÜNDER E., KOÇ T., ŞENEL T.

2nd International Conference on Banking and Finance Perspectives, 21 April 2017

- XIV. **Efficiency assesment of the transportation services in Turkey**

GÜMÜŞTEKİN S., ŞENEL T.

2nd International Conference on Applied Economics and Finance (ICOAEF 2016), 5 - 06 December 2016

- XV. **Evaluation of the Performance of Turkish Airports An Application of Network Data Envelopment Analysis**

ŞENEL T., GÜMÜŞTEKİN S.

International Conference on Advances in Natural and Applied Sciences, 21 - 23 April 2016

- XVI. **The Evaluation of the Performance of the World s Largest Airports in the First 30**

GÜMÜŞTEKİN S., ŞENEL T.

International Conference on Advances in Natural and Applied Sciences, 21 - 23 April 2016

- XVII. **performance evaluation of electricity generated from renewable sources of turkey and european union member states**

GÜMÜŞTEKİN S., ŞENEL T.

13th international conference on data envelopment analysis, 24 - 27 August 2015, pp.16

- XVIII. **Multi Objective Simulation Optimization for an Onkology Clinic**

GÜMÜŞTEKİN S., ŞENEL T.

XVIth International Symposium on Econometrics, Operations Research and Statistics, Edirne, Turkey, 7 - 12 May 2015, pp.525-526

- XIX. **Multi Objective Simulation Optimization Using Data Envelopment Analysis and Genetic Algorithm**

GÜMÜŞTEKİN S., ŞENEL T.

XVIth International Symposium on Econometrics, Operations Research and Statistics, Edirne, Turkey, 7 - 12 May 2015, pp.532-533

- XX. **comparisons of the efficiency of hospitals in samsun using network data envelopment analysis**

GÜMÜŞTEKİN S., ŞENEL T.

the 8th conference of eastern mediterranean region of the international biometric society, 11 - 15 May 2015, pp.128

- XXI. **solving the vehicle routing problem using hybrid genetic algorithm**
GÜMÜŞTEKİN S., ŞENEL T.
16th international symposium on econometrics, operations research and statistics, 7 - 12 May 2015, pp.517
- XXII. **multi objective simulation optimization using data envelopment analysis and genetic algorithm**
GÜMÜŞTEKİN S., ŞENEL T., CENGİZ M. A.
16th international symposium on econometrics, operations research and statistics, 7 - 12 May 2015
- XXIII. **multi objective simulation optimization for a onkology clinic**
GÜMÜŞTEKİN S., ŞENEL T.
16th international symposium on econometrics, operations research and statistics, 7 - 12 May 2015
- XXIV. **OECD Ülkelerinin Enerji Performanslarının Bayesci Stokastik Sınır Analizi ile Değerlendirilmesi**
CENGİZ M. A., MURAT N., ŞENEL T.
8. Uluslararası İstatistik Kongresi, Antalya, Turkey, 27 - 30 October 2013, pp.263-264
- XXV. **A Review on Estimation Distribution Algorithms in Discrete and Continuous Optimization Problems**
GÜMÜŞTEKİN S., ŞENEL T.
8. Uluslararası İstatistik Kongresi, Antalya, Turkey, 27 - 30 October 2013, pp.359
- XXVI. **A Review of Estimation Distribution Algorithms in discrete and continuous optimization problems**
GÜMÜŞTEKİN S., ŞENEL T.
8.Uluslararası İstatistik Kongresi, 27 - 30 October 2013
- XXVII. **A Bayesian Computation for Stochastic Frontier Analysis**
CENGİZ M. A., ŞENEL T., TERZİ Y., MURAT N.
11th International Conference on Data Envelopment Analysis (DEA2013), Samsun, Turkey, 27 - 30 June 2013, pp.11
- XXVIII. **Integer DEA models and an application**
ŞENEL T., GÜMÜŞTEKİN S., TERZİ E., SAVAŞ N.
11th International Conference on Data Envelopment Analysis, 27 - 30 June 2013
- XXIX. **Olasılıksal model yapılı hibrid genetik algoritmalar**
GÜMÜŞTEKİN S., ŞENEL T., CENGİZ M. A.
14th International Symposium on Econometrics, Operations Research and Statistics, 24 - 28 May 2013
- XXX. **Kayıp Verili Veri Zarflama Analizi**
ŞENEL T., TERZİ Y., GÜMÜŞTEKİN S.
14th International symposium on econometrics, operations research and statistics, 24 - 28 May 2013, pp.172
- XXXI. **Bayesian Optimization Algorithm for Feeding Problem**
ŞENEL T., GÜMÜŞTEKİN S., CENGİZ M. A.
8th International Symposium of Statistics, Eskişehir, Turkey, 11 - 13 October 2012, pp.337-338
- XXXII. **A Bayesian Computation for Logistic Regression Model**
TERZİ E., ŞENEL T., SAVAŞ N., MURAT N.
8th International Symposium of Statistics, Eskişehir, Turkey, 11 - 13 October 2012, pp.353-354
- XXXIII. **Beslenme Probleminde Genetik Algoritma Kullanılması**
GÜMÜŞTEKİN S., ŞENEL T.
13th International Conference on Econometrics, Operations Research and Statistics, 24 - 26 May 2012
- XXXIV. **Samsun İmalat Sanayi Envanteri**
CENGİZ M. A., MURAT N., ŞENEL T.
Samsun Sempozyumu, Samsun, Turkey, 13 - 16 October 2011, pp.1-13
- XXXV. **WinBUGS Kullanılarak Stokastik Sınır Analizi İçin Bir Bayes Yaklaşımı**
ŞENEL T., CENGİZ M. A., SAVAŞ N., TERZİ Y.
12th International Symposium on Econometrics, Statistics and Operations Research, Denizli, Turkey, 26 - 29 May 2011, pp.262
- XXXVI. **Bayesci Genelleştirilmiş Momentler Metodu Uygulamaları**
CENGİZ M. A., MURAT N., TERZİ E., ŞENEL T.

XII. Ulusal Biyoistatistik Kongresi, Van, Turkey, 28 June - 01 July 2010, pp.119

XXXVII. **Latent Regresyon Modellerin Gerçek Veri Kumesine Uygulaması**

TERZİ E., TERZİ Y., ŞENEL T.

4. İstatistik Günleri Sempozyumu, Kuşadası, Turkey, 20 - 21 May 2004, pp.117

XXXVIII. **Bulanık Doğrusal Programlama ve Bulanık Hedef Programlama İle Beslenme Probleminin İncelenmesi**

BAL H., ŞENEL T.

İstatistik Sempozyumu 2000, Ankara, Turkey, 27 - 28 April 2000, pp.171-180