

## Prof. NESLİHAN DEMİREL

### Personal Information

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**Address:** Dokuz Eylül Üniversitesi Fen Fakültesi İstatistik Bölümü 35390 Buca İzmir

### International Researcher IDs

ScholarID: pj\_GfEEAAAAJ

ORCID: 0000-0002-5394-4721

Publons / Web Of Science ResearcherID: D-9103-2012

ScopusID: 35753032400

Yoksis Researcher ID: 137700

### Education

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2002 - 2007

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), Turkey 1999 - 2002

Undergraduate, Ege University, Faculty Of Science, İstatistik Bölümü, Turkey 1995 - 1999

### Certificates, Courses and Trainings

Other, FEDEK Değerlendirici Eğitimi, FEN, EDEBİYAT, FEN - EDEBİYAT, DİL VE TARİH - COĞRAFYA FAKÜLTELERİ  
ÖĞRETİM PROGRAMLARI DEĞERLENDİRME VE AKREDİTASYON DERNEĞİ, 2022

### Dissertations

Doctorate, The problem of missing data in regression analysis, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2007

Postgraduate, Principal components in the problem of multicollinearity, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), 2001

### Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Statistics, Statistical Analysis and Applications

### Academic Positions

Lecturer PhD, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2007 - 2011

Lecturer, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2004 - 2007

Research Assistant, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2000 - 2004

## Academic and Administrative Experience

Enstitü Yönetim Kurulu Üyesi, Dokuz Eylul University, Fen Bilimleri Enstitüsü, 2023 - Continues  
Rectorate Commissioner, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2022 - Continues  
Birim Kalite Komisyonu Üyesi, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2021 - Continues  
Internship Committee Member, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2016 - Continues  
Fakülte Kurulu Üyesi, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2022 - 2023  
Head of Department, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2022 - 2023  
Dokuz Eylul University, 2016 - 2018  
Dokuz Eylul University, 2016 - 2018  
Fakülte Kurulu Üyesi, Dokuz Eylul University, 2013 - 2016  
Dokuz Eylul University, 2010 - 2013  
Dokuz Eylul University, 2009 - 2011

## Courses

### Doctorate

PhD. RESEARCH, Doctorate, 2015 - 2016  
Ph.D. THESIS, Doctorate, 2015 - 2016  
DATA PROCESSİNG, Doctorate, 2014 - 2015, 2013 - 2014, 2011 - 2012

### Postgraduate

Unsupervised Statistical Learning, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Denetimli İstatistiksel Öğrenme, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Unsupervised Statistical Learning, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Denetimli İstatistiksel Öğrenme, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
REGRESSION ANALYSİS, Postgraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014  
M.SC. RESEARCH, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2011 - 2012  
M.SC. THESIS, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2011 - 2012  
M.SC. SEMINAR, Postgraduate, 2015 - 2016  
ALTERNATIVE REGRESSION METHODS, Postgraduate, 2014 - 2015, 2013 - 2014  
STATİSTİCAL DATA ANALYSİS, Postgraduate, 2013 - 2014  
STATİSTİCAL SOFTWARE İN DATA ANALYSİS, Postgraduate, 2011 - 2012

### Undergraduate

Regression Analysis, Undergraduate, 2023 - 2024  
Kariyer Planlama, Undergraduate, 2023 - 2024  
Bitirme Projesi, Undergraduate, 2023 - 2024  
Yönlendirilmiş Grup Çalışması I, Undergraduate, 2023 - 2024  
Statistical Methods in Data Mining, Undergraduate, 2021 - 2022  
REGRESYON ÇÖZÜMLEMESİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
BİTİRME PROJESİ\*\*\*, Undergraduate, 2022 - 2023, 2021 - 2022, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2011 - 2012  
Statistics II, Undergraduate, 2021 - 2022  
PROBLEME DAYALI ÖĞRENME III, Undergraduate, 2015 - 2016, 2014 - 2015  
REGRESYON ÇÖZÜMLEMESİ-II.Öğretim, Undergraduate, 2015 - 2016  
İSTATİSTİKSEL DENEY TASARIMI, Undergraduate, 2014 - 2015, 2011 - 2012  
Special Topics in Regression Analysis, Undergraduate, 2014 - 2015, 2011 - 2012, 2010 - 2011  
Statistics, Undergraduate, 2014 - 2015  
PROBLEME DAYALI ÖĞRENME IV, Undergraduate, 2014 - 2015  
YÖNLENDİRİLMİŞ GRUP ÇALIŞMASI\*\*\*, Undergraduate, 2013 - 2014

PROBABİLİTY AND STATİSTİCS II, Undergraduate, 2013 - 2014

PARAMETRİK OLMAYAN İSTATİSTİKSEL YÖNTEMLER, Undergraduate, 2013 - 2014, 2011 - 2012

PROBLEME DAYALI ÖĞRENME II, Undergraduate, 2013 - 2014

## Supervised Theses

Demirel N., An approach to product simulation using machine learning algorithms, Postgraduate, E.Yılmaz(Student), Continues

Demirel N., Evaluating machine learning algorithms based area under the ROC curve, Doctorate, A.Göçöğlu(Student), Continues

Demirel N., Prediction of financial crises using machine learning algorithms, Postgraduate, Ç.Vargün(Student), Continues

Demirel N., Examining Consumer Behavior in Food Orders with Association Rules, Postgraduate, H.Can(Student), Continues

Demirel N., AUTOMOBILE INSURANCE RATEMAKING: CLASS RATING AND MERIT RATING, Doctorate, P.BAYLAN(Student), 2024

DEMİREL N., Automobile insurance ratemaking: Class rating and merit rating, Doctorate, P.BAYLAN(Student), 2024

Demirel N., Estimation of parameters affecting washing performance of different stain groups in washing machines with supervised learning , Postgraduate, M.Şükrü(Student), 2023

Demirel N., Prediction of Fabric Width Using Artificial Neural Networks and Ensemble Learning Algorithms in the Textile Industry, Postgraduate, İ.Soylu(Student), 2023

Demirel N., DETERMINING THE OPTIMAL NUMBER OF CLUSTERS IN CLUSTERING ANALYSIS: ADJUSTED SILHOUETTE COEFFICIENT BASED ON MEDIAN, Postgraduate, F.Emre(Student), 2023

Demirel N., Kemoduyusal EEG sinyallerinin sınıflandırılması için yeni bir hibrit öznitelik çıkarma yöntemi, Doctorate, B.KARA(Student), 2023

DEMİREL N., A novel hybrid feature extraction method for classification of chemosensory EEG signals, Doctorate, B.KARA(Student), 2023

Demirel N., Makine öğrenmesi algoritmaları ile meteorolojik parametreleri kullanarak toprak radon gazının tahmini, Postgraduate, Ç.ÖZTÜRK(Student), 2021

DEMİREL N., Modifiye sıralı küme örnekleme yöntemlerinde regresyon kestiricilerinin etkinliklerinin incelenmesi, Postgraduate, E.DAVASLIOĞLU(Student), 2019

DEMİREL N., Modifiye sıralı küme örnekleme yöntemlerinde kitle oranı kestiricisi, Postgraduate, A.GÖÇÖĞLU(Student), 2018

DEMİREL N., Medyan sıra sayılı küme örneklemesinde regresyon kestiricileri, Postgraduate, D.BALIN(Student), 2017

DEMİREL N., İki aşamalı medyan sıralı küme örneklemesinde yardımcı değişkenler kullanılarak etkinliğinin karşılaştırılması, Postgraduate, B.KARA(Student), 2015

DEMİREL N., Sıralı küme örneklemesinde harmonik ve geometrik ortalama kestirimi, Postgraduate, S.ADİ(Student), 2014

## Advising Graduates (Non-Thesis)

Demirel N., Masters (Non-Thesis, Evening Education), S.Avkan(Student), 2022

## Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, ÜAK, March, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi,

January, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi,  
January, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi,  
January, 2024

Doctorate, Doctorate, Muğla Sıtkı Koçman Üniversitesi, January, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi,  
January, 2024

Doctorate, Doctorate, Dokuz Eylül Üniversitesi, December, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship,  
Dokuz Eylül Üniversitesi, June, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Dokuz Eylül Üniversitesi,  
June, 2023

Associate Professor Exam, Associate Professor Exam, Dokuz Eylül Üniversitesi, May, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship,  
March, 2023

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **A Novel Information Complexity Approach to Score Receiver Operating Characteristic (ROC) Curve Modeling**  
Gocoglu A., DEMİREL N., Bozdogan H.  
Entropy, vol.26, no.11, 2024 (SCI-Expanded)
- II. **A novel feature extraction method using chemosensory EEG for Parkinson's disease classification**  
Kara Gulay B., Demirel N., Vahaplar A., Guducu Ç.  
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.79, no.2, pp.1-10, 2023 (SCI-Expanded)
- III. **Estimating the population proportion in modified ranked set sampling methods**  
Gocoglu A., DEMİREL N.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.89, no.14, pp.2694-2710, 2019 (SCI-Expanded)
- IV. **Two-layer median ranked set sampling**  
KARA GÜLAY B., DEMİREL N.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.48, no.5, pp.1560-1569, 2019 (SCI-Expanded)
- V. **Estimation of Population Variance from Multi-ranker Ranked Set Sampling Designs**  
Ozturk O., DEMİREL N.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.45, no.10, pp.3568-3583, 2016 (SCI-Expanded)
- VI. **Natural radioactivity levels of great soil groups in Seferihisar Geothermal Region, Turkey**  
İÇHEDEF M., Sac M. M., CAMGÖZ B., Bolca M., DEMİREL N., EGE ORUÇ Ö.  
ENVIRONMENTAL EARTH SCIENCES, vol.74, no.7, pp.6283-6292, 2015 (SCI-Expanded)
- VII. **Improvement of changeover times via Taguchi empowered SMED/case study on injection molding production**  
Karasu M. K., ÇAKMAKÇI M., Cakiroglu M. B., Ayva E., Demirel-Ortabas N.  
MEASUREMENT, vol.47, pp.741-748, 2014 (SCI-Expanded)
- VIII. **The Effects of Web-Based Diabetes Education on Diabetes Care Results A Randomized Control Study**  
Avdal E. U., Kizilci S., DEMİREL N.  
CIN-COMPUTERS INFORMATICS NURSING, vol.29, no.2, pp.101-106, 2011 (SCI-Expanded)
- IX. **Investigation of Radioactive and Chemical Contents of Thermal Waters; Izmir Seferihisar Region Representative**  
CAMGÖZ B., SAÇ M. M., BOLCA M., ÖZEN F., EGE ORUÇ Ö., DEMİREL N.  
EKOLOJİ, vol.19, no.76, pp.78-87, 2010 (SCI-Expanded)

- X. **Practical Approaches to the Determination of the Sample Size in Clinical Studies**  
DEMİREL N., GÜRLER S.  
KAFKAS UNIVERSİTESİ VETERİNER FAKULTESİ DERGİSİ, vol.16, no.2, pp.205-211, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **QUANTIFYING THE IMPACT OF RISK FACTORS ON DIRECT COMPENSATION PROPERTY DAMAGE IN CANADIAN AUTOMOBILE INSURANCE**  
Baylan P., Demirel N.  
Nicel bilimler dergisi (Online), vol.6, no.1, 2024 (Peer-Reviewed Journal)
- II. **Comparison of the Methods to Determine Optimal Number of Cluster**  
Öztürk F. E., Demirel N.  
VERİ BİLİMİ DERGİSİ, vol.6, no.1, pp.34-45, 2023 (Peer-Reviewed Journal)
- III. **The Estimator for Geometric Mean of Ranked Set Sample for Normal Distribution**  
Perdana S. A., DEMİREL N.  
Jurnal Gantang, vol.3, no.1, pp.9-15, 2018 (Peer-Reviewed Journal)
- IV. **Combining the Information of Multiple Ranker in Ranked Set Sampling with Fuzzy Set Approach,**  
ÇETİNTAV B., GÜRLER S., DEMİREL N., Ulutagay G.  
SOFT METHODS FOR DATA SCIENCE, 2017 (Scopus)
- V. **Practical Approaches For Determination Of Sample Size In Paired Case-Control Studies**  
Demirel N., Ege Oruç Ö., Gürler S.  
Türkiye Klinikleri Biyoistatistik Dergisi, vol.8, no.1, pp.36-44, 2016 (Peer-Reviewed Journal)
- VI. **Omitted Variable Bias and Detection with Reset Test in Regression Analysis**  
EREEŞ S., DEMİREL N.  
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi - B Teorik Bilimler, vol.2, no.1, pp.1-19, 2012 (Peer-Reviewed Journal)
- VII. **İzmir İli Sıcaklık Verilerinin Regresyon Eğrileri ile Modellenmesi**  
DEMİREL N.  
İstatistik Araştırma Dergisi, vol.8, no.2, pp.68-75, 2011 (Peer-Reviewed Journal)
- VIII. **Diyabet Eğitimi Programlarına Katılım Durumu ve A1c Düzeyi**  
ÜNSAL AVDAL E., KIZILCI S., DEMİREL N.  
Diyabet, Obezite ve Hipertansiyonda Hemşirelik Forumu, vol.1, no.2, pp.59-66, 2009 (Peer-Reviewed Journal)
- IX. **Regresyon Çözümlemesinde Kayıp Veri Sorunu**  
DEMİREL N., KURT S.  
İstatistik Araştırma Dergisi, vol.4, no.3, pp.52-62, 2005 (Peer-Reviewed Journal)
- X. **Çoklu Doğrusal Bağlantı Durumunda Ridge Regresyon ve Temel Bileşenler Regresyon Yöntemlerinin Benzetim Çalışması ile Karşılaştırılması**  
DEMİREL N., KURT S.  
İstatistik Araştırma Dergisi, vol.4, no.1, pp.35-41, 2005 (Peer-Reviewed Journal)

## Books

- I. **Fuzzy-Weighted Ranked Set Sampling Method**  
Çetintav B., Gürler S., Demirel N.  
in: Ranked Set Sampling Models and Methods, Carlos N. Bouza-Herrera, Editor, IGI Global, New York, pp.190-208, 2022

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Determining the Optimal Number Of Clusters: Adjusted Silhouette Coefficient**  
Öztürk F. E., Demirel N., Yıldıztepe E.  
10th International Conference on Advances in Statistics, Budapest, Hungary, 19 - 21 April 2024, pp.45, (Summary Text)
- II. **Modeling Different Types of Claims in Canadian Automobile Insurance**  
Baylan P., Demirel N.  
V. INTERNATIONAL APPLIED STATISTICS CONGRESS (UYIK - 2024), İstanbul, Turkey, 21 - 23 May 2024, pp.187, (Summary Text)
- III. **Combining Information Criterion with ROC Curve for Model Selection**  
Göçoğlu A., Demirel N., Bozdoğan H.  
V. INTERNATIONAL APPLIED STATISTICS CONGRESS UYIK - 2024, İstanbul, Turkey, 21 - 23 May 2024, pp.99, (Summary Text)
- IV. **Predicting Deformation in Cooked Ceramic Raw Material Using Machine Learning Algorithms**  
Yılmaz E., Demirel N., Sevinçtekin Ö.  
The Second International Symposium in Graduate Researches on Data Science & Technology, İzmir, Turkey, 30 November 2023, (Unpublished)
- V. **Examining Prefrontal Oxygenation Parameter in Migraine Classification A Machine Learning Approach**  
Öztürk F. E., Zengin N., Kara Gülay B., Öztürk V., Güdücü Ç., Demirel N.  
2nd Joint German-Turkish Symposium on Human Neuroscience, Ankara, Turkey, 7 - 09 September 2023, (Unpublished)
- VI. **ÇAMAŞIR MAKİNELERİNDE YIKAMA PERFORMANSININ DENETİMLİ MAKİNE ÖĞRENMESİ ALGORİTMALARI İLE TAHMİNLENMESİ**  
Akgün M. Ş., Demirel N.  
9. Bilim Günleri Kongresi, İstanbul, Turkey, 9 - 11 May 2023, pp.86, (Summary Text)
- VII. **Comparison of the Methods to Determine Optimal Number of Clusters**  
Öztürk F. E., Demirel N.  
International Symposium in Graduate Researches on Data Sciences, İzmir, Turkey, 2 - 03 December 2022, pp.277, (Summary Text)
- VIII. **Study of Artificial Neural Networks for Single Jersey Fabrics in the Textile Industry**  
Soylu İ., Demirel N.  
12. INTERNATIONAL STATISTICS DAYS CONFERENCE 2022, İzmir, Turkey, 13 - 16 October 2022, (Unpublished)
- IX. **Denetimli İstatistiksel Öğrenme Algoritmaları ile Toprak Radon Gazının Tahmini**  
ÖZTÜRK ZAN Ç., DEMİREL N.  
III. Uluslararası Uygulamalı İstatistik Kongresi, Üsküp, Macedonia, 22 June 2021, (Summary Text)
- X. **Examining the response of olfactory stimulus in EEG signals**  
KARA B., DEMİREL N., VAHAPLAR A., GÜDÜCÜ Ç.  
11th International Statistics Congress, 4 - 08 October 2019, (Summary Text)
- XI. **Bivariate Credibility Premiums Distinguishing Between Two Claims Types in Third Party Liability Insurance**  
Baylan P., Kurt S., Demirel N., Pai J. S.  
Young Business and Industrial Statisticians Workshop on Recent Advances in Data Science and Business Analytics, İstanbul, Turkey, 25 - 28 September 2019, pp.81, (Summary Text)
- XII. **Trafik Sigortasında Prim Değerlendirmesini Etkileyen Faktörlerin Belirlenmesi**  
BAYLAN İRVEN P., DEMİREL N.  
4. Ulusal Sigorta ve Aktüarya Kongresi, Turkey, 24 - 25 June 2019
- XIII. **EXAMINING THE EFFICIENCY OF REGRESSION ESTIMATORS IN MODIFIED RANKED SET SAMPLING METHODS**  
Davashoğlu E., DEMİREL N.  
2 INTERNATIONAL CONGRESS ON STATISTICS MATHEMATICS AND ANALYTICAL METHODS, 28 March 2019
- XIV. **Performance Measurement of SMED Improved Plastic Injection Molding Production by Using Process**

## **Capability Analysis for Attribute Data**

ÇAKMAKÇI M., Demirel-Ortabas N.

6th International Scientific-Technical Conference on Advances in Manufacturing II (MANUFACTURING), Poznan, Poland, 19 - 22 May 2019, pp.188-205, (Full Text)

- XV. **On the Efficiency of Proportion Estimators Under Modified Ranked Set Sampling Methods**  
Göçoğlu A., DEMİREL N.  
11. International Statistics Days Conference, 3 - 07 October 2018, (Summary Text)
- XVI. **ESTIMATION OF POPULATION PROPORTION FOR BINARY VARIABLE IN MODIFIED RANKED SET SAMPLING METHODS**  
Göçoğlu A., DEMİREL N.  
4th International Researchers, Statisticians and Young Statisticians Congress, 28 - 30 April 2018, (Summary Text)
- XVII. **COMPARING THE EFFICIENCY OF THE ESTIMATORS FOR THE POPULATION PROPORTION UNDER DIFFERENT DESIGNS OF RANKED SET SAMPLING**  
Göçoğlu A., DEMİREL N.  
International Conference on Computational and Statistical Methods in Applied Sciences, 9 - 11 November 2017, (Summary Text)
- XVIII. **Combining the Information of Multiple Ranker in Ranked Set Sampling with Fuzzy Set Approach**  
Cetintav B., GÜRLER S., DEMİREL N., Ulutagay G.  
8th International Conference on Soft Methods in Probability and Statistics (SMPS), Rome, Italy, 12 - 14 September 2016, vol.456, pp.121-126, (Full Text)
- XIX. **Regression Estimators in Median Ranked Set Sampling**  
BALIN D., DEMİREL N.  
Xth International Statistics Days Conference (ISDC'2016), 7 - 09 October 2016, (Summary Text)
- XX. **On the mean estimation in ranked set sampling with combining the information of multiple rankers using fuzzy set approach**  
ÇETİNTAV B., GÜRLER S., DEMİREL N., ULUTAGAY G.  
12th Int. Conference on Ordered Statistical Data, 25 - 28 May 2016, (Summary Text)
- XXI. **Mean Estimation Based on FWA Using Ranked Set Sampling with Single and Multiple Rankers**  
Cetintav B., Ulutagay G., GÜRLER S., DEMİREL N.  
16th International Conference on Information Processing and Management of Uncertainty in Knowledge-based Systems (IPMU), Eindhoven, Netherlands, 20 - 24 June 2016, vol.611, pp.790-797, (Full Text)
- XXII. **A NEW APPROACH OF COMBINING EXPERT JUDGMENT AND DATA KNOWLEDGE IN MULTI-ATTRIBUTE DECISION MAKING**  
Cetintav B., Ulutagay G., GÜRLER S., DEMİREL N.  
12th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Roubaix, France, 24 - 26 August 2016, vol.10, pp.112-118, (Full Text)
- XXIII. **The Efficiency of Two Layer Ranked Set Sampling for Regression Estimators**  
KARA B., DEMİREL N.  
European Meeting of Statisticians, 06 July 2015, (Summary Text)
- XXIV. **Fuzzy Weighted Ranked Set Sampling A New Perspective to ranked Set Sampling Method**  
ÇETİNTAV B., GÜRLER S., DEMİREL N.  
Ordered Data Analysis, Models and Health Research Methods: An International Conference in Honor of H.N. Nagaraja for His 60th Birthday, 7 - 09 March 2014, (Summary Text)
- XXV. **An Analysis of Traffic Accidents in Turkey between 1984 2004 Probable Affects of Fasting and Seasons**  
Tolon M., DEMİREL N., GÜRLER S.  
The International Forum for Social Sciences and Health (IFSSH) World Congress, 21 - 26 August 2005, (Summary Text)
- XXVI. **Türk Otomotiv Sektöründe Talep Tahmini**  
EGE ORUÇ Ö., DEMİREL N.  
İstatistik Araştırma Sempozyumu, Ankara, Turkey, 9 - 10 December 2002, (Summary Text)

## Peer Reviews in Scientific Publications

Research in Statistics, Other Indexed Journal, August 2024

COMMUNICATIONS IN STATISTICS PART B: SIMULATION AND COMPUTATION, Journal Indexed in SCI-E, June 2024

JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, Journal Indexed in SCI-E, June 2024

## Scientific Project Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, January 2024

## Scientific Consultations

TÜBİTAK, Project Consultancy, Dokuz Eylül University, Fen Fakültesi, İstatistik Bölümü, Turkey, 2024 - 2024

TÜBİTAK, Project Consultancy, Dokuz Eylül University, Fen Fakültesi, İstatistik Bölümü, Turkey, 2024 - 2024

TÜBİTAK, Project Consultancy, Dokuz Eylül University, Fen Fakültesi, İstatistik Bölümü, Turkey, 2024 - 2024

## Roles in Event Organizations

Demirel N., The Second International Symposium in Graduate Researches on Data Science, Scientific Congress, Turkey, Kasım 2023

Demirel N., Fıstıkoğlu O., Soysal Y., Kınay A. Ö., INTERNATIONAL SYMPOSIUM SERIES ON GRADUATE RESEARCHES 2022, Scientific Congress, İzmir, Turkey, Aralık 2022

Demirel N., 4th International Symposium of Researchers, Statisticians and Young Statisticians (IRSYSC2022), Scientific Congress, İzmir, Turkey, Nisan 2018

Demirel N., Meta Analysis and Statistical Inference Based on Ordered and Ranked Data, Scientific Congress, İzmir, Turkey, Haziran 2014

Demirel N., Scientific Congress, Turkey, Mayıs 2005

## Metrics

Publication: 47

Citation (WoS): 110

Citation (Scopus): 133

H-Index (WoS): 5

H-Index (Scopus): 4

## Congress and Symposium Activities

The Second International Symposium in Graduate Researches on Data Science & Technology, Session Moderator, İzmir, Turkey, 2023

12. INTERNATIONAL STATISTICS DAYS CONFERENCE 2022, Session Moderator, İzmir, Turkey, 2022

## Artistic Activity

DEMİREL N., Meta Analysis and Statistical Inference Based on Ordered and Ranked Data, June 2014

DEMİREL N., 4. İstatistik Günleri Sempozyumu, May 2004