

# Prof. BİRDAL ŞENOĞLU

## Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-9300-2020

ScopusID: 6506973358

Yoksis Researcher ID: 9720

## Education Information

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Statistics, Turkey 1998 - 2000

Postgraduate, Iowa State University, Statistics, United States Of America 1996 - 1998

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Statistics, Turkey 1988 - 1994

## Dissertations

Doctorate, Experimental Design Under Nonnormality, Middle East Technical University, Genel Biyoloji Anabilim Dalı, İstatistik (Dr), 2000

## Research Areas

Statistics

## Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2011 - Continues

Associate Professor, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2006 - 2011

Assistant Professor, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 2001 - 2006

Lecturer PhD, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 2000 - 2001

Research Assistant, Middle East Technical University, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 1998 - 2000

Research Assistant, Eskisehir Osmangazi University, İstatistik Bölümü, 1995 - 1998

Research Assistant, Middle East Technical University, İstatistik Bölümü, 1994 - 1995

## Academic and Administrative Experience

Head of Department, Ankara University, 2017 - 2017

Ankara University, 2011 - 2013

Ankara University, 2008 - 2011

Eskisehir Osmangazi University, 2002 - 2003

## Courses

Statistical Design of Experiment, Undergraduate, 2023 - 2024  
İstatistik Teorisi, Postgraduate, 2023 - 2024  
Sampling, Undergraduate, 2022 - 2023  
TEZ ÇALIŞMASI, Doctorate, 2022 - 2023  
UZMANLIK ALAN DERSİ, Doctorate, 2021 - 2022  
UZMANLIK ALAN DERSİ, Postgraduate, 2021 - 2022  
TEZ ÇALIŞMASI, Doctorate, 2021 - 2022  
LINEAR MODELS, Undergraduate, 2022 - 2023  
TEZ ÇALIŞMASI, Postgraduate, 2022 - 2023  
TEZ ÇALIŞMASI, Postgraduate, 2021 - 2022  
Data Analysis, Undergraduate, 2021 - 2022  
ÖZEL KONU, Undergraduate, 2022 - 2023  
UZMANLIK ALAN DERSİ, Postgraduate, 2022 - 2023  
STATISTICAL THEORY, Postgraduate, 2021 - 2022  
UZMANLIK ALAN DERSİ, Doctorate, 2022 - 2023  
ÖZEL KONU, Undergraduate, 2021 - 2022  
SEMİNER, Postgraduate, 2021 - 2022

## Advising Theses

ŞENOĞLU B., Bazı normal olmayan dağılımlar için istatistiksel sonuç çıkarımı, Postgraduate, C.ERGENÇ(Student), 2021  
ŞENOĞLU B., DUS-Weibull ve DUS-inverse-Weibull dağılımları: parametre tahmini ve hipotez testleri, Doctorate, H.HÜSEYİN(Student), 2020  
ŞENOĞLU B., Statistical modeling of wind speed, Postgraduate, T.NİKSARLI(Student), 2019  
ŞENOĞLU B., Parameter estimation of some nonnormal distributions using genetic algorithm for complete and censored samples Yazar:ABDULLAH YALÇINKAYA, Doctorate, A.YALÇINKAYA(Student), 2018  
ŞENOĞLU B., One-way anova for time series data with non-normal innovations: An application to unemployment rate data, Postgraduate, Ö.YILDIRIM(Student), 2017  
ŞENOĞLU B., Stres-dayanıklılık modelinde sıralı küme örnekleme yöntemi kullanılarak sistem güvenilirliğinin dayanıklı tahmini, Doctorate, F.GÜL(Student), 2015  
ŞENOĞLU B., Bazı çarpık-normal dağılımların teorik olarak incelenmesi ve uygulamaları, Postgraduate, A.HAMEL(Student), 2015  
ŞENOĞLU B., Tam ve sansürlü örneklemler için deney tasarımı model parametrelerinin dayanıklı tahmini, Doctorate, M.SAİT(Student), 2015  
ŞENOĞLU B., Yaşam-stres modellerinde ve hızlandırılmış başarısızlık süresi modelinde çarpık dağılımlara dayalı dayanıklı parametre tahmini, Doctorate, İ.GEDİK(Student), 2014  
ŞENOĞLU B., İki-fazlı doğrusal regresyon modelinde değişim noktasının dayanıklı tahmini, Doctorate, Ş.ACITAŞ(Student), 2014  
ŞENOĞLU B., Deney tasarımında kayıp gözlemlerin dayanıklı tahmini, Doctorate, D.AYDIN(Student), 2013  
ŞENOĞLU B., Çapraz Geçişli tasarımlar ve uygulamaları, Postgraduate, A.YALÇINKAYA(Student), 2012  
ŞENOĞLU B., Anova modellerinde çarpık dağılımlar kullanılarak dayanıklı istatistiksel sonuç çıkarımı ve uygulamaları, Doctorate, N.ÇELİK(Student), 2012  
ŞENOĞLU B., Stokastik ANCOVA: İstatistiksel sonuç çıkarımı, Doctorate, P.KASAP(Student), 2011  
ŞENOĞLU B., Ortak değişkenlerin varlığı durumunda faktöriyel tasarımlar, Postgraduate, Ş.ACITAŞ(Student), 2010  
ŞENOĞLU B., İç-içe tasarımlarda dayanıklı analiz ve uygulamaları, Postgraduate, İ.GEDİK(Student), 2010  
ŞENOĞLU B., Sağlam kestiricilerin etkinliklerinin farklı örnekleme yöntemleri için karşılaştırılması ve uygulaması, Doctorate, A.ALTIN(Student), 2007  
ŞENOĞLU B., Robust control charts, Postgraduate, A.ÇETİNYÜREK(Student), 2006

ŞENOĞLU B., Robust regresyon ve uygulamaları, Postgraduate, B.ERGÜL(Student), 2006

ŞENOĞLU B., Comparison of regression techniques via Monte Carlo simulation, Postgraduate, O.CAN(Student), 2004

ŞENOĞLU B., Experimental design in the presence of covariates, Postgraduate, D.AVCIOĞLU(Student), 2003

## Jury Memberships

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Van Yüzüncü Yıl Üniversitesi, July, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Afyon Kocatepe Üniversitesi, January, 2022

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

- I. **Comparison of wind speed distributions: a case study for Aegean coast of Turkey**  
Akgul F. G., Şenoğlu B.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.45, no.1, pp.2453-2470, 2023 (SCI-Expanded)
- II. **Statistical determination of significant particle swarm optimization parameters: the case of Weibull distribution**  
Alptekin B., Acitas S., Şenoğlu B., Aladağ Ç. H.  
SOFT COMPUTING, vol.26, no.22, pp.12623-12634, 2022 (SCI-Expanded)
- III. **Modified minimum distance estimators: definition, properties and applications**  
Arslan T., Acitas S., Şenoğlu B.  
Computational Statistics, vol.37, no.4, pp.1551-1568, 2022 (SCI-Expanded)
- IV. **Estimation and hypothesis testing in the two-stage nested design under nonnormality**  
Gedik Balay İ., Şenoğlu B.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.92, no.5, pp.998-1014, 2022 (SCI-Expanded)
- V. **Inferences for stress-strength reliability of Burr Type X distributions based on ranked set sampling**  
Akgul F. G., ŞENOĞLU B.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.51, no.6, pp.3324-3340, 2022 (SCI-Expanded)
- VI. **Estimation of the parameters of the gamma geometric process**  
Kara M., Güven G., Şenoğlu B., Aydoğdu H.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.92, no.12, pp.2525-2535, 2022 (SCI-Expanded)
- VII. **Modified maximum likelihood estimator under the Jones and Faddy's skewt-error distribution for censored regression model**  
Acitas S., Yenilmez I., ŞENOĞLU B., Kantar Y. M.  
JOURNAL OF APPLIED STATISTICS, vol.48, no.12, pp.2136-2151, 2021 (SCI-Expanded)
- VIII. **A new approach using the genetic algorithm for parameter estimation in multiple linear regression with long-tailed symmetric distributed error terms: An application to the Covid-19 data**  
YALÇINKAYA A., GEDİK BALAY İ., ŞENOĞLU B.  
CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, vol.216, 2021 (SCI-Expanded)
- IX. **A robust adaptive modified maximum likelihood estimator for the linear regression model**  
Acitas S., Filzmoser P., ŞENOĞLU B.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.91, no.7, pp.1394-1414, 2021 (SCI-Expanded)
- X. **PARAMETER ESTIMATION FOR THE TWO-PARAMETER MAXWELL DISTRIBUTION UNDER COMPLETE AND CENSORED SAMPLES**  
Arslan T., Acitas S., ŞENOĞLU B.  
REVSTAT-STATISTICAL JOURNAL, vol.19, no.2, pp.237-253, 2021 (SCI-Expanded)

- XI. **Estimation of the system reliability for generalized inverse Lindley distribution based on different sampling designs**  
Akgul F. G., Yu K., ŞENOĞLU B.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.50, no.7, pp.1532-1546, 2021 (SCI-Expanded)
- XII. **Maximum likelihood and maximum product of spacings estimations for the parameters of skew-normal distribution under doubly type II censoring using genetic algorithm**  
YALÇINKAYA A., YOLCU U., ŞENOĞLU B.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.168, 2021 (SCI-Expanded)
- XIII. **A new partial robust adaptive modified maximum likelihood estimator**  
Acitas S., Filzmoser P., ŞENOĞLU B.  
CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, vol.204, 2020 (SCI-Expanded)
- XIV. **Classical and Bayesian Inferences in Step-Stress Partially Accelerated Life Tests for Inverse Weibull Distribution Under Type-I Censoring**  
Akgul F. G., Yu K., Senoglu B.  
STRENGTH OF MATERIALS, vol.52, no.3, pp.480-496, 2020 (SCI-Expanded)
- XV. **Robust change point estimation in two-phase linear regression models: An application to metabolic pathway data**  
Acitas S., ŞENOĞLU B.  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.363, pp.337-349, 2020 (SCI-Expanded)
- XVI. **A fiducial-based approach to the one-way ANOVA in the presence of nonnormality and heterogeneous error variances**  
GÜVEN G., GÜRER Ö., ŞAMKAR H., ŞENOĞLU B.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.89, no.9, pp.1715-1729, 2019 (SCI-Expanded)
- XVII. **Ridge-Type MML Estimator in the Linear Regression Model**  
ACITAŞ Ş., ŞENOĞLU B.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.43, no.A2, pp.589-599, 2019 (SCI-Expanded)
- XVIII. **A new approach for estimating the parameters of Weibull distribution via particle swarm optimization: An application to the strengths of glass fibre Cheek tor data**  
ACITAŞ Ş., ALADAĞ Ç. H., ŞENOĞLU B.  
RELIABILITY ENGINEERING & SYSTEM SAFETY, vol.183, pp.116-127, 2019 (SCI-Expanded)
- XIX. **Two-way ANOVA when the distribution of the error terms is skew t**  
ÇELİK N., ŞENOĞLU B.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.48, no.1, pp.287-301, 2019 (SCI-Expanded)
- XX. **Type II Censored Samples in Experimental Design Under Jones and Faddy's Skew t Distribution**  
Arslan T., ŞENOĞLU B.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.42, no.A4, pp.2145-2157, 2018 (SCI-Expanded)
- XXI. **Robust parameter estimation of regression model with AR(p) error terms**  
Tuac Y., GÜNEY Y., ŞENOĞLU B., ARSLAN O.  
Communications in Statistics: Simulation and Computation, vol.47, no.8, pp.2343-2359, 2018 (SCI-Expanded)
- XXII. **Robust factorial ANCOVA with LTS error distributions**  
ACITAŞ Ş., ŞENOĞLU B.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.47, no.2, pp.347-363, 2018 (SCI-Expanded)
- XXIII. **Maximum likelihood estimation for the parameters of skew normal distribution using genetic algorithm**  
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.  
SWARM AND EVOLUTIONARY COMPUTATION, vol.38, pp.127-138, 2018 (SCI-Expanded)
- XXIV. **Robust estimation and testing in one-way ANOVA for Type II censored samples: skew normal error terms**

- ÇELİK N., ŞENOĞLU B.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.88, no.7, pp.1382-1393, 2018 (SCI-Expanded)
- XXV. **Inferences on stress-strength reliability based on ranked set sampling data in case of Lindley distribution**  
Akgul F. G., ACITAŞ Ş., ŞENOĞLU B.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.88, no.15, pp.3018-3032, 2018 (SCI-Expanded)
- XXVI. **Interval estimation of the system reliability for Weibull distribution based on ranked set sampling data**  
Akgul F. G., ŞENOĞLU B., ACITAŞ Ş.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.47, no.5, pp.1404-1416, 2018 (SCI-Expanded)
- XXVII. **Generalized Lindley and Power Lindley distributions for modeling the wind speed data**  
Arslan T., ACITAŞ Ş., ŞENOĞLU B.  
ENERGY CONVERSION AND MANAGEMENT, vol.152, pp.300-311, 2017 (SCI-Expanded)
- XXVIII. **Statistical inference for alpha-series process with gamma distribution**  
Kara M., AYDOĞDU H., ŞENOĞLU B.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.46, no.13, pp.6727-6736, 2017 (SCI-Expanded)
- XXIX. **Estimation of  $P(X < Y)$  using ranked set sampling for the Weibull distribution**  
Akgul F. G., ŞENOĞLU B.  
QUALITY TECHNOLOGY AND QUANTITATIVE MANAGEMENT, vol.14, no.3, pp.296-309, 2017 (SCI-Expanded)
- XXX. **Linear contrasts in one-way classification AR(1) model with gamma innovations**  
ŞENOĞLU B., TÜRKER BAYRAK Ö.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.45, no.6, pp.1743-1754, 2016 (SCI-Expanded)
- XXXI. **An alternative distribution to Weibull for modeling the wind speed data: Inverse Weibull distribution**  
Akgul F. G., ŞENOĞLU B., Arslan T.  
ENERGY CONVERSION AND MANAGEMENT, vol.114, pp.234-240, 2016 (SCI-Expanded)
- XXXII. **Stochastic analysis of covariance when the error distribution is long-tailed symmetric**  
KASAP P., ŞENOĞLU B., ARSLAN O.  
JOURNAL OF APPLIED STATISTICS, vol.43, no.11, pp.1977-1997, 2016 (SCI-Expanded)
- XXXIII. **Alpha-skew generalized t distribution Distribución t generalizada alfa sesgada**  
Acitas S., ŞENOĞLU B., ARSLAN O.  
Revista Colombiana de Estadística, vol.38, no.2, pp.353-370, 2015 (SCI-Expanded)
- XXXIV. **Estimation and testing in one-way anova when the errors are skew-normal Estimación y pruebas de hipótesis en ANOVA a una vía cuando los errores se distribuyen como normal sesgados**  
Celik N., ŞENOĞLU B., ARSLAN O.  
Revista Colombiana de Estadística, vol.38, no.1, pp.75-91, 2015 (SCI-Expanded)
- XXXV. **ROBUST ESTIMATION WITH THE SKEW  $t(2)$  DISTRIBUTION**  
Acitas S., KASAP P., ŞENOĞLU B., ARSLAN O.  
PAKISTAN JOURNAL OF STATISTICS, vol.29, no.4, pp.409-430, 2013 (SCI-Expanded)
- XXXVI. **Robust estimation with the skew  $t_2$  distribution**  
Acitas Ş., Kasap P., ŞENOĞLU B., ARSLAN O.  
Pakistan Journal of Statistics, vol.29, no.4, pp.409-430, 2013 (SCI-Expanded)
- XXXVII. **One-step M-estimators: Jones and Faddy's skewed t-distribution**  
ACITAŞ Ş., KASAP P., ŞENOĞLU B., ARSLAN O.  
JOURNAL OF APPLIED STATISTICS, vol.40, no.7, pp.1545-1560, 2013 (SCI-Expanded)
- XXXVIII. **ROBUST 2(k) FACTORIAL DESIGNS: NON-NORMAL SYMMETRIC DISTRIBUTIONS**  
ŞENOĞLU B., ACITAŞ Ş., KASAP P.  
PAKISTAN JOURNAL OF STATISTICS, vol.28, no.1, pp.93-114, 2012 (SCI-Expanded)
- XXXIX. **Robust 2k factorial designs: Non-normal symmetric distributions**  
ŞENOĞLU B., Acitas Ş., Kasap P.  
Pakistan Journal of Statistics, vol.28, no.1, pp.93-114, 2012 (SCI-Expanded)

- XL. **Comparison of certain value-at-risk estimation methods for the two-parameter Weibull loss distribution**  
Gebizlioglu O. L., ŞENOĞLU B., MERT KANTAR Y.  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.235, no.11, pp.3304-3314, 2011 (SCI-Expanded)
- XLI. **Comparison of estimation methods for the finite population mean in simple random sampling: symmetric super-populations**  
ALTIN YAVUZ A., ŞENOĞLU B.  
JOURNAL OF APPLIED STATISTICS, vol.38, no.6, pp.1277-1288, 2011 (SCI-Expanded)
- XLII. **Parameter estimation in geometric process with Weibull distribution**  
AYDOĞDU H., ŞENOĞLU B., Kara M.  
APPLIED MATHEMATICS AND COMPUTATION, vol.217, no.6, pp.2657-2665, 2010 (SCI-Expanded)
- XLIII. **APPLICATION OF MML METHODOLOGY TO AN alpha-SERIES PROCESS WITH WEIBULL DISTRIBUTION**  
AYDOĞDU H., ŞENOĞLU B., Kara M.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.39, no.3, pp.449-460, 2010 (SCI-Expanded)
- XLIV. **Analysis of Covariance with Non-normal Errors**  
ŞENOĞLU B., Avcioglu M. D.  
INTERNATIONAL STATISTICAL REVIEW, vol.77, no.3, pp.366-377, 2009 (SCI-Expanded)
- XLV. **Estimation and hypothesis testing in BIB design and robustness**  
Tiku M. L., ŞENOĞLU B.  
COMPUTATIONAL STATISTICS & DATA ANALYSIS, vol.53, no.9, pp.3439-3451, 2009 (SCI-Expanded)
- XLVI. **Evaluation of surface water quality characteristics by using multivariate statistical techniques: A case study of the Euphrates river basin, Turkey**  
FİLİK İŞÇEN C., ALTIN YAVUZ A., ŞENOĞLU B., YAVUZ H. S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.151, no.1-4, pp.259-264, 2009 (SCI-Expanded)
- XLVII. **A comparative study for the location and scale parameters of the Weibull distribution with given shape parameter**  
MERT KANTAR Y., ŞENOĞLU B.  
COMPUTERS & GEOSCIENCES, vol.34, no.12, pp.1900-1909, 2008 (SCI-Expanded)
- XLVIII. **Effects of physical environment on the stress levels of hemodialysis nurses in Ankara Turkey**  
Ugur S., Acuner A. M., Goktas B., ŞENOĞLU B.  
JOURNAL OF MEDICAL SYSTEMS, vol.31, no.4, pp.283-287, 2007 (SCI-Expanded)
- XLIX. **Estimating parameters in one-way analysis of covariance model with short-tailed symmetric error distributions**  
ŞENOĞLU B.  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.201, no.1, pp.275-283, 2007 (SCI-Expanded)
- L. **Robust estimation and hypothesis testing of linear contrasts in analysis of covariance with Stochastic covariates**  
ŞENOĞLU B.  
JOURNAL OF APPLIED STATISTICS, vol.34, no.2, pp.141-151, 2007 (SCI-Expanded)
- LI. **Robust 2(k) factorial design with Weibull error distributions**  
ŞENOĞLU B.  
JOURNAL OF APPLIED STATISTICS, vol.32, no.10, pp.1051-1066, 2005 (SCI-Expanded)
- LII. **Goodness-of-fit tests based on Kullback-Leibler information**  
ŞENOĞLU B., Surucu B.  
IEEE TRANSACTIONS ON RELIABILITY, vol.53, no.3, pp.357-361, 2004 (SCI-Expanded)
- LIII. **Linear contrasts in experimental design with non-identical error distributions**  
ŞENOĞLU B., Tiku M.  
BIOMETRICAL JOURNAL, vol.44, no.3, pp.359-374, 2002 (SCI-Expanded)
- LIV. **Analysis of variance in experimental design with nonnormal error distributions**  
Şenoğlu B., Tiku M.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.30, no.7, pp.1335-1352, 2001 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Robust Inference for the Skew Normal Regression Model Under Type II Censoring**  
GEDİK BALAY İ., ŞENOĞLU B.  
THAILAND STATISTICIAN, vol.22, no.3, pp.547-564, 2024 (ESCI)
- II. **ESTIMATING THE PARAMETERS OF GENERALIZED LOGISTIC DISTRIBUTION VIA GENETIC ALGORITHM BASED ON REDUCED SEARCH SPACE**  
YALÇINKAYA A., Kılıç A., ŞENOĞLU B.  
Journal of Mathematical Sciences (United States), 2024 (Scopus)
- III. **DUS Inverse Weibull Distribution and Parameter Estimation in Regression Model**  
Gül H. H., ACITAS S., BAYRAK H., SENOGLU B.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.1, pp.42-50, 2023 (Peer-Reviewed Journal)
- IV. **Comparison of estimation methods for the Kumaraswamy Weibull distribution**  
Ergenç C., SENOGLU B.  
Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.72, no.1, pp.1-21, 2023 (ESCI)
- V. **ESTIMATION OF THE LOCATION AND SCALE PARAMETERS OF MOYAL DISTRIBUTION**  
Arslan T., Acitas S., ŞENOĞLU B.  
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.10, no.4, pp.1135-1144, 2020 (ESCI)
- VI. **Slash Maxwell Distribution: Definition, Modified Maximum Likelihood Estimation and Applications**  
Acitas S., Arslan T., ŞENOĞLU B.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.33, no.1, pp.249-263, 2020 (ESCI)
- VII. **Obesity and Body Image of Women and Men in Iran-Tabriz**  
SHAHVIRDI L., GÜLTEKİN T., ALIZADEH AGHDAM M. B., ACITAŞ Ş., ŞENOĞLU B.  
ANTHROPOLOGY, vol.38, pp.37-45, 2019 (Peer-Reviewed Journal)
- VIII. **Evaluating of beef cattle performance and profitability using robust regression analysis**  
KÖKNAROĞLU H., ACITAŞ Ş., ŞENOĞLU B.  
Harran Tarım ve Gıda Bilimleri Dergisi, vol.23, no.3, pp.277-286, 2019 (Peer-Reviewed Journal)
- IX. **ESTIMATION OF THE LOCATION AND THE SCALE PARAMETERS OF BURR TYPE XII DISTRIBUTION**  
Akgul F. G., Acitas S., ŞENOĞLU B.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.1, pp.1030-1044, 2019 (ESCI)
- X. **ESTIMATING THE MISSING VALUE IN ONE-WAY ANOVA UNDER LONG-TAILED SYMMETRIC ERROR DISTRIBUTIONS**  
Aydin D., ŞENOĞLU B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.36, no.2, pp.523-538, 2018 (ESCI)
- XI. **Robust estimation of the location and the scale parameters of shifted Gompertz distribution**  
Aydin D., Akgul F. G., ŞENOĞLU B.  
ELECTRONIC JOURNAL OF APPLIED STATISTICAL ANALYSIS, vol.11, no.1, pp.92-107, 2018 (ESCI)
- XII. **Estimation of Stress-Strength Reliability For Weibull Distribution Based on Type-II Right Censored Ranked Set Sampling Data**  
Akgul F. G., ŞENOĞLU B.  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, vol.14, no.4, pp.781-806, 2018 (ESCI)
- XIII. **Estimation of stress strength reliability for Weibull distribution based on type II right censored rank set sampling data.**  
AKGÜL F. G., ŞENOĞLU B.  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, vol.14, no.4, pp.781-806, 2018 (Scopus)
- XIV. **A comparison of different methods for estimating the missing value in two-way ANOVA**  
AYDIN D., ŞENOĞLU B.

- International Journal of Mathematics and Statistics, vol.18, no.3, pp.47-63, 2017 (Peer-Reviewed Journal)
- XV. **Inference for the Jones and Faddy's Skewed t-Distribution Based on Progressively Type-II Censored Samples**  
Akgul F. G., ŞENOĞLU B.  
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- XVI. **Estimation of  $P(X < Y)$  using Some Modifications of Ranked Set Sampling for Weibull Distribution**  
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- XVII. **Çift taraflı tip II sansürlenmiş örneklem için Jones ve Faddy'xxnin çarpık t dağılımının konum ve ölçek parametrelerinin tahmini**  
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- XVIII. **Comparison of the power of robust F and non parametric Kruskal Wallis tests in the one way analysis of the variance model**  
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- XIX. **Monte Carlo Comparison of the Parameter Estimation Methods for the Two-Parameter Gumbel Distribution**  
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- XXI. **Alpha Skew Generalized t Distribution**  
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- XXII. **A Monte Carlo comparison of regression estimators when the error distribution is long-tailed symmetric**  
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- XXIII. **Investigating Job Satisfaction and Burnout Levels of the Persons Working for the Hospitals at City Center of Elaziğ Turkey**  
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## Books & Book Chapters

- I. **POINT ESTIMATION FOR THE BETA DISTRIBUTION PARAMETERS USING GENETIC ALGORITHM**  
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- II. **Parameter Estimation for Kumaraswamy Weibull Distribution Under Ranked Set Sampling**  
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- I. **AN APPLICATION OF EXTREME VALUE ANALYSIS ON A REAL DATA**  
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- II. **PARAMETER ESTIMATION FOR THE MULTIPLELINEAR REGRESSION MODEL UNDER SKEWNORMAL ERROR DISTRIBUTION**  
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- III. **Estimating Parameters of Kumaraswamy Weibull Distribution**  
ERGENÇ C., GÜVEN G., ŞENOĞLU B.  
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- IV. **A new robust Liu-type estimator for regression based on RAMML estimators**  
ACITAŞ Ş., filzmoser p., ŞENOĞLU B., GÜVEN G.  
International Conference on Robust Statistics ICORS 2021, 20 - 24 September 2021
- V. **Comparison of the Performances of the fiducial-based tests using M and MML estimators in one-way ANOVA**  
GÜVEN G., ŞAMKAR H., ŞENOĞLU B.  
3rd International Conference on Pure and Applied Mathematics, 3 - 05 September 2020
- VI. **Determination of Wind Speed Characteristics using Mixture Distributions**  
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- VII. **An Alternative Method to the Newton-Raphson:Genetic Algorithm**  
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- VIII. **Parameter Estimation for the k-th Extreme Value Distribution**  
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- IX. **Statistical inference for the Moyal distribution under type-II censoring**  
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- X. **Robust Portfolio Optimization in Stock Exchange Market**  
ÜNAL B., ALADAĞ Ç. H., ŞENOĞLU B.  
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- XI. **Estimation methods for three-parameter Burr type XII distribution: Hydrological Application**  
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- XII. **DUS InverseWeibull Dağılımı ve Uygulaması**  
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- XIII. **Hypothesis testing in one-way ANOVA based on fiducial approach when the error terms have Weibull distribution and heterogeneous variances**  
GÜVEN G., GÜRER Ö., ŞAMKAR H., ŞENOĞLU B.  
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- XIV. **Fiducial Based Approach for Testing the Equality of the Treatment Means in One-Way ANOVA When the Usual Normality and Homogeneity of Variances Assumptions are not Met**  
GÜVEN G., GÜRER Ö., ŞAMKAR H., ŞENOĞLU B.  
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- XV. **Estimation Of Parameters Of Skew-t Distribution Under Progressive Censoring Via Maximum Likelihood Using Genetic Algorithm**  
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- XVI. **LINEAR CONTRASTS IN ONE-WAY ANOVA UNDER TYPE II CENSORED SAMPLES WHEN THE DISTRIBUTION OF THE ERROR TERMS IS NON-IDENTICAL JONES AND FADDY'S SKEW T**  
ARSLAN M. S. T., ACITAŞ Ş., ŞENOĞLU B.  
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- XVII. **Robust two-way ANOVA under nonnormality**  
ÇELİK N., ŞENOĞLU B.  
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- XVIII. **Estimation for the censored regression model with the Jones and Faddy'xxs Skew t distribution: Maximum likelihood and modified maximum likelihood estimation methods**  
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- XIX. **Scale mixture extension of the Maxwell distribution: Properties, estimation and application**  
ACITAŞ Ş., ARSLAN M. S. T., ŞENOĞLU B.  
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- XX. **Linear contrasts for time series data with non-normal innovations: An application to a real life data**  
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- XXI. **Maximum Likelihood Estimation Using Genetic Algorithm for the Parameters of Skew-t Distribution under Type II Censoring**

- YALÇINKAYA A., YOLCU U., ŞENOĞLU B.  
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- XXII. **Modelling extreme wind speed data: A case study for Eskisehir, Turkey**  
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- XXIII. **Estimation of the shape parameter of Burr type X distribution using ranked set sampling with an application**  
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18. Uluslararası Ekonometri Yöneylem Araştırması ve İstatistik Sempozyumu, 5 - 07 October 2017
- XXIV. **Inferences for stress-strength reliability of Burr type X distributions based on ranked set sampling**  
AKGÜL F. G., ŞENOĞLU B.  
Applied Statistics 2017, 24 - 27 September 2017
- XXV. **Estimating the location and scale parameters of the Maxwell distribution**  
ARSLAN M. S. T., ACITAŞ Ş., ŞENOĞLU B.  
Data science, statistics and visualisation, 12 - 14 July 2017
- XXVI. **Alternative distributions to Weibull for modeling the wind speed data in wind energy analysis**  
AKGÜL F. G., ŞENOĞLU B.  
Data science, statistics and visualisation, 12 - 14 July 2017
- XXVII. **Maximum Likelihood Estimation for the Parameters of Skew-t Distribution using Genetic Algorithm**  
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.  
3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017), Konya, Turkey, 24 - 26 May 2017
- XXVIII. **Parameter estimation for the accelerated failure time (AFT) model under type II censoring: Skew t distribution**  
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3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC-2017), Konya, Turkey, 24 - 26 May 2017, pp.247
- XXIX. **Estimation of the parameters in one-way ANOVA under type II censored samples**  
ARSLAN M. S. T., ŞENOĞLU B.  
3rd International researchers, statisticians and young statisticians congress, 24 - 26 May 2017
- XXX. **Linear contrasts in one-way ANOVA with non-identical and non-normal error distributions**  
ARSLAN M. S. T., ACITAŞ Ş., ŞENOĞLU B.  
3rd International researchers, statisticians and young statisticians congress, 24 - 26 May 2017
- XXXI. **Hypothesis testing in one-way classification AR(1) model with Student'xxs t innovations: An application to a real life data**  
YILDIRIM Ö., YOZGATLIGİL C., ŞENOĞLU B.  
3rd International researchers, statisticians and young statisticians congress, 24 - 26 May 2017
- XXXII. **Inference for the scaled Half-Logistic distribution based on ranked set sampling**  
AKGÜL F. G., ŞENOĞLU B.  
3rd International researchers, statisticians and young statisticians congress, 24 - 26 May 2017
- XXXIII. **Different estimation methods for the parameters of Inverse Weibull distribution: An application to fatigue lifetime data**  
AKGÜL F. G., ŞENOĞLU B.  
3rd International researchers, statisticians and young statisticians congress, 24 - 26 May 2017
- XXXIV. **Estimating the parameters Of Weibull distribution via particle swarm optimization based on an adaptive search space**  
ACITAŞ Ş., ALADAĞ Ç. H., ŞENOĞLU B.  
The 10th ICSA International Conference on Global Growth of Modern Statistics in the 21st Century, 19 - 22 December 2016
- XXXV. **İki Sonuçlu Rasch Modeli nde Kişi Parametrelerinin Uyarlanmış En Çok Olabilirlik Kestirimi**  
DOĞANAY ERDOĞAN B., ŞENOĞLU B., ELHAN A. H., ÖZTUNA D.

18. Ulusal Biyoistatistik Kongresi ve 1. Uluslararası Biyoistatistik Kongresi, Antalya, Turkey, 26 - 29 October 2016
- XXXVI. **Inferences on stress strength reliability from Lindley distributions based on ranked set sampling data**  
AKGÜL F. G., ACITAŞ Ş., ŞENOĞLU B.  
Xth International Statistics Days conference, 7 - 09 October 2016
- XXXVII. **Ridge type modified maximum likelihood estimators in linear regression model**  
ACITAŞ Ş., ŞENOĞLU B.  
International conference on trends and perspectives in linear statistical inference, 22 - 25 August 2016
- XXXVIII. **The generalized inverse Weibull distribution Properties and different estimation methods**  
AKGÜL F. G., ŞENOĞLU B.  
International conference on trends and perspectives in linear statistical inference, 22 - 25 August 2016
- XXXIX. **Estimation of the quantiles of two parameter Gumbel distribution**  
AYDIN D., ŞENOĞLU B.  
International conference on trends and perspectives in linear statistical inference, 22 - 25 August 2016
- XL. **Statistical inference for the location model when the distribution of the error terms is Jones and Faddy s skew t Type II censored samples**  
ARSLAN M. S. T., ŞENOĞLU B.  
International conference on trends and perspectives in linear statistical inference, 22 - 25 August 2016
- XLI. **Inference for the accelerated failure time AFT model under type II censoring**  
GEDİK BALAY İ., ŞENOĞLU B.  
ALT2016 6th International Conference on Accelerated Life Testing and Degradation Models, 22 - 24 July 2016
- XLII. **Interval estimation of the system reliability for Weibull distribution based on ranked set sampling data**  
AKGÜL F. G., ŞENOĞLU B., ACITAŞ Ş.  
9th IMA International conference on modeling in industrial maintenance and reliability (MIMAR), 12 - 14 July 2016
- XLIII. **A New Search Space For Genetic Algorithm**  
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.  
International Conference on Information Complexity and Statistical Modelling in High Dimensions with Applications (IC-SMHD 2016), Nevşehir, Turkey, 18 - 21 May 2016
- XLIV. **Maximum Likelihood Estimation For The Parameters Of Skew Normal Distribution Using Genetic Algorithm**  
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.  
International Conference on Information Complexity and Statistical Modelling in High Dimensions with Applications(IC-SMHD 2016), Nevşehir, Turkey, 18 - 21 May 2016
- XLV. **Maximum likelihood estimation with genetic algorithm for the parameters of skew normal distribution**  
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.  
International conference on information complexity and statistical modeling in high dimensions with applications IC-SMHD-2016, 18 - 21 May 2016
- XLVI. **Estimating parameters in factorial ANCOVA model with generalized logistic error distributions**  
ACITAŞ Ş., ŞENOĞLU B.  
2nd International researchers statisticians and young statisticians congress, 4 - 08 May 2016
- XLVII. **Estimation of the location and the scale parameters of Jones and Faddy s skewed t distribution based on progressively Type II censored data**  
AKGÜL F. G., ŞENOĞLU B.  
2nd International researchers statisticians and young statisticians congress, 4 - 08 May 2016
- XLVIII. **Robust estimation and testing in one way ANOVA under type II censoring Skew normal error terms**  
ÇELİK N., ŞENOĞLU B.  
2nd International researchers statisticians and young statisticians congress, 4 - 08 May 2016
- XLIX. **Ridge regression based on MML estimators with LTS error distributions**  
ACITAŞ Ş., ŞENOĞLU B.

9th Conference of the Asian Region Section of the IASC, 17 - 19 December 2015

- L. **Nested Designs with Generalized Logistic Error Terms**  
GEDİK BALAY İ., ŞENOĞLU B.  
European Meeting of Statisticians, 6 - 10 July 2015
- LI. **Estimating the parameters in one way ANOVA based on ranked set sampling**  
AKGÜL F. G., ŞENOĞLU B.  
The 8th Conference of Eastern Mediterranean Region of the International Biometric Society, 11 - 15 May 2015
- LII. **Robust estimation of the parameters of the shifted Gompertz distribution**  
AYDIN D., ŞENOĞLU B., AKGÜL F. G., KIRDAR K., ESKI F., OKUMUS E.  
The 8th Conference of Eastern Mediterranean Region of the International Biometric Society, 11 - 15 May 2015
- LIII. **Estimation of the system reliability under type II right censored the ranked set sampling data**  
AKGÜL F. G., ŞENOĞLU B., KOÇAK D., AĞAR B., AĞAR B.  
International Conference on Mathematics and Mechanics, 27 - 28 April 2015
- LIV. **Prediction equations for the estimation of body weight on elderly using anthropometric measurements**  
GÜLTEKİN T., BEKTAŞ Y., ACITAŞ Ş., ŞENOĞLU B.  
International Congress of Anthropological Sciences (ICAS), 9 - 11 April 2015
- LV. **Estimating the location and scale parameters of the Weibull distribution: An application from engineering**  
MERT KANTAR Y., ŞENOĞLU B.  
16th IASTED International Conference on Applied Simulation and Modelling, Palma de Mallorca, Spain, 29 - 31 August 2007, pp.90-91

## Supported Projects

Şenoğlu B., Akgül F. G., Project Supported by Higher Education Institutions, Rüzgar Hızının Modellenmesinde Alternatif Dağılımların Kullanılması, 2016 - 2017  
Şenoğlu B., Yılmaz M., Açık Kemaloğlu S., TÜBİTAK Project, İstatistiğe Giriş 1, 2015 - 2016

## Activities in Scientific Journals

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Editor, 2019 - Continues  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS,  
Editor, 2018 - Continues  
Eskişehir Teknik Üniversitesi Bilim ve Teknoloji Dergisi b- Teorik Bilimler, Editor, 2017 - Continues

## Memberships / Tasks in Scientific Organizations

Türk İstatistik Derneği, Board Member, 2022 - Continues, Turkey

## Metrics

Publication: 142  
Citation (WoS): 706  
Citation (Scopus): 886  
H-Index (WoS): 15  
H-Index (Scopus): 15