

## Assoc. Prof. DERYA KARAGÖZ

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-8283-8573

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### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 2006 - 2012

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 2003 - 2006

Undergraduate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 1998 - 2003

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Sağlam varyans çözümlemesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2012

Postgraduate, Çarpık dağılımlar için X ve R kontrol kartları, Hacettepe Üniversitesi, Fen Fakültesi, 2006

### Research Areas

Statistics, Statistical Analysis and Applications, Natural Sciences

### Academic Titles / Tasks

Research Assistant, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2004 - Continues

Research Assistant, Katholieke Universiteit Leuven, İşletme Ve Ekonomi , Orstat Araştırma Merkezi, 2007 - 2009

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

- I. **Designing robust modified R control charts for asymmetric distributions under ranked set and median ranked set sampling**  
KOYUNCU N., KARAGÖZ D.  
COMPUTATIONAL STATISTICS, vol.36, no.2, pp.1093-1121, 2021 (SCI-Expanded)
- II. **Neoteric ranked set sampling for robust (X)over-bar and R control charts**  
KOYUNCU N., KARAGÖZ D.

- SOFT COMPUTING, vol.24, no.22, pp.17195-17204, 2020 (SCI-Expanded)
- III. **A Niftymean chart method based on median ranked set sampling design**  
KARAGÖZ D., KOYUNCU N.  
SOFT COMPUTING, vol.24, no.7, pp.5199-5216, 2020 (SCI-Expanded)
- IV. **New ranked set sampling schemes for range charts limits under bivariate skewed distributions**  
Karagoez D., KOYUNCU N.  
SOFT COMPUTING, vol.23, no.5, pp.1573-1587, 2019 (SCI-Expanded)
- V. **Asymmetric control limits for range chart with simple robust estimator under the non-normal distributed process**  
KARAGÖZ D.  
MATHEMATICAL SCIENCES, vol.12, no.4, pp.249-262, 2018 (SCI-Expanded)
- VI. **Generalized Tietjen-Moore test to detect outliers**  
KARAGÖZ D., Aktas S.  
MATHEMATICAL SCIENCES, vol.12, no.1, pp.7-15, 2018 (SCI-Expanded)
- VII. **New mean charts for bivariate asymmetric distributions using different ranked set sampling designs**  
KOYUNCU N., KARAGÖZ D.  
QUALITY TECHNOLOGY AND QUANTITATIVE MANAGEMENT, vol.15, no.5, pp.602-621, 2018 (SCI-Expanded)
- VIII. **Robust X control chart for monitoring the skewed and contaminated process**  
KARAGÖZ D.  
Hacettepe Journal of Mathematics and Statistics, vol.47, no.1, pp.223-242, 2018 (SCI-Expanded)
- IX. **Robust brown-forsythe and robust modified brown-forsythe ANOVA tests under heteroscedasticity for contaminated weibull distribution ANOVAS robustos heterocedásticos brown-forsythe y brown-forsythe modificado para la distribución weibull contaminada**  
KARAGÖZ D., SARAÇBAŞI T.  
Revista Colombiana de Estadística, vol.39, no.1, pp.17-32, 2016 (SCI-Expanded)
- X. **Modified Welch Test Statistic for ANOVA under Weibull Distribution**  
KARAGÖZ D.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, pp.1-14, 2015 (SCI-Expanded)
- XI. **Robust explicit estimators of Weibull parameters**  
Boudt K., Caliskan D., Croux C.  
METRIKA, vol.73, no.2, pp.187-209, 2011 (SCI-Expanded)
- XII. **Efficient and robust scale estimation for trended time series**  
Caliskan D., Croux C., Gelper S.  
STATISTICS & PROBABILITY LETTERS, vol.79, no.18, pp.1900-1905, 2009 (SCI-Expanded)

### Articles Published in Other Journals

- I. **ROBUST ESTIMATIONS OF SURVIVAL FUNCTION FOR WEIBULL DISTRIBUTION**  
KARAGÖZ D., ATA TUTKUN N.  
STATISTICA, vol.81, no.1, pp.3-23, 2021 (ESCI)
- II. **WEIGHTED STANDARD DEVIATION METHOD FOR  $(\bar{X})$  AND S CONTROL CHARTS**  
KARAGÖZ D.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1377-1386, 2019 (ESCI)
- III. **SHEWHART MEAN AND RANGE CONTROL CHARTS USING NEW RANKED SET SAMPLING SCHEMES**  
KOYUNCU N., KARAGÖZ D.  
Journal of the Turkish Statistical Association, vol.10, 2017 (Peer-Reviewed Journal)
- IV. **Robust Brown Forsythe and Robust Modified Brown Forsythe ANOVA Tests Under Heteroscedasticity for Contaminated Weibull Distribution**  
KARAGÖZ D., SARAÇBAŞI T.

- Revista Colombiana de Estadística, vol.39, pp.17-32, 2016 (Scopus)
- V. **Evaluation of Consumer Confidence Index of Central Bank of Turkey**  
AKTAŞ ALTUNAY S., KARAGÖZ D.  
The Online Journal of Science and Technology, vol.5, pp.31-36, 2015 (Peer-Reviewed Journal)
- VI. **Evaluation of Consumer Confidence Index of Central Bank of Turkey Consumer Tendency Survey**  
AKTAŞ ALTUNAY S., KARAGÖZ D.  
The Online Journal of Science and Technology, vol.5, pp.32-36, 2015 (Peer-Reviewed Journal)
- VII. **Trends in Human Development Index of Member Countries of European Union**  
KARAGÖZ D., AKTAŞ ALTUNAY S.  
The Online Journal of Science and Technology, vol.5, pp.68-79, 2015 (Peer-Reviewed Journal)
- VIII. **Dengesiz deney düzenlerinde sağlam test istatistiklerinin karşılaştırılması**  
KARAGÖZ D.  
İstatistikçiler dergisi: İstatistik ve Aktüerya, vol.6, pp.79-85, 2013 (Peer-Reviewed Journal)
- IX. **Control charts for skewed distributions Weibull gamma and lognormal**  
KARAGÖZ D., HAMURKAROĞLU C.  
Metodoloski zvezki, vol.9, pp.95-106, 2012 (Scopus)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Various ranked set sampling designs to construct mean charts for monitoring the skewed normal process**  
KARAGÖZ D., KOYUNCU N.  
International Statistics Congress, 6 - 08 December 2017
- II. **Shewhart X and S charts for bivariate normal distribution under ranked set, median ranked set and neoteric ranked set sampling schemes**  
KARAGÖZ D., KOYUNCU N.  
International Symposium on Econometrics, Operations Research and Statistics, 5 - 07 October 2017
- III. **Robust shewhart control charts by using ranked set sampling and neoteric ranked set sampling schemes**  
KARAGÖZ D., KOYUNCU N.  
Robust shewhart control charts by using ranked set sampling and neoteric ranked set sampling schemes, 24 - 28 July 2017
- IV. **The modified range charts for monitoring the contaminated process**  
KARAGÖZ D.  
International workshop on mathematical methods in engineering (MME 2017), 27 - 29 April 2017
- V. **Quantiles and Median Estimators of Exponential Distribution Parameter and Robustness Properties**  
KARAGÖZ D.  
2nd International Researchers-Statisticians and Young Statisticians Congress, 4 - 08 May 2016
- VI. **Triangle Distribution for Positively Skewed Data**  
KARAGÖZ D., AKTAŞ ALTUNAY S.  
6th International Conference on New Horizons in Education, 10 - 12 June 2015
- VII. **Detection of Multiple Outliers in Multivariate Data**  
KARAGÖZ D., AKTAŞ ALTUNAY S.  
8th conference of the Eastern Mediterranean Region of the International Biometric Society, 11 - 15 May 2015

### **Supported Projects**

KARAGÖZ D., KOYUNCU N., Project Supported by Higher Education Institutions, Sıralı örnekleme yöntemlerine dayalı sağlam Shewhart kontrol kartları, 2017 - 2017

KARAGÖZ D., Project Supported by Higher Education Institutions, Çarpık Dağılımlarda Ağırlıklandırılmış Standart Sapma Yöntemine Dayalı Sağlam S Kontrol Kartı, 2016 - 2017

KARAGÖZ D., AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, POSİTİF ÇARPIK VERİLER İÇİN ÜÇGENSEL DAĞILIM TANIMI VE EĞİTİM UYGULAMASI, 2015 - 2016

## **Metrics**

Publication: 28

Citation (WoS): 36

Citation (Scopus): 91

H-Index (WoS): 3

H-Index (Scopus): 5

## **Non Academic Experience**

Hacettepe Üniversitesi