

Assoc. Prof. UFUK BEYAZTAŞ

Personal Information

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Education Information

Doctorate, Dokuz Eylul University, Institute Of Science, Turkey 2012 - 2016

Post Graduate, Dokuz Eylul University, Institute Of Science, Turkey 2010 - 2012

Under Graduate, Dokuz Eylul University, Faculty Of Science, Department Of Statistics, Turkey 2005 - 2010

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Jackknife-after-Bootstrap method as diagnostic toolin generalized linear models, Dokuz Eylul University, Institute Of Science, 2016

Post Graduate, Jackknife-after-bootstrap method for detection of outliers and influential observations in linear regression models, Dokuz Eylul University, Institute Of Science, 2012

Research Areas

Statistics

Academic Titles / Tasks

Associate Professor, Marmara University, Faculty Of Arts And Sciences, Statistics, 2021 - Continues

Associate Professor, Piri Reis University, Faculty Of Economics And Administrative Sciences, Department Of Economics And Finance, 2020 - 2021

Assistant Professor, Bartin University, Faculty Of Science, Department Of Mathematics, 2019 - 2020

Assistant Professor, Bartin University, Faculty Of Science, Department Of Statistics, 2018 - 2019

Research Assistant, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , 2016 - 2018

Research Assistant, Dokuz Eylul University, Faculty Of Science, Department Of Statistics, 2012 - 2016

Research Assistant, Istanbul Medeniyet University, Faculty Of Science, 2011 - 2012

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

- Global solar radiation prediction over North Dakota using air temperature: Development of novel hybrid intelligence model**
Beyaztaş U.

ENERGY REPORTS, vol.7, pp.136-157, 2021 (Journal Indexed in SCI Expanded)

- II. **Prediction of copper ions adsorption by attapulgite adsorbent using tuned-artificial intelligence model**
Beyaztas U.
Chemosphere, vol.276, pp.1-14, 2021 (Journal Indexed in SCI Expanded)
- III. **A partial least squares approach for function-on-function interaction regression**
Beyaztas U., Shang H. L.
COMPUTATIONAL STATISTICS, 2021 (Journal Indexed in SCI)
- IV. **Robust bootstrap prediction intervals for univariate and multivariate autoregressive time series models**
Beyaztas U., Shang H. L.
JOURNAL OF APPLIED STATISTICS, 2020 (Journal Indexed in SCI)
- V. **Granger causality of bivariate stationary curve time series**
Shang H. L. , Ji K., Beyaztas U.
JOURNAL OF FORECASTING, 2020 (Journal Indexed in SSCI)
- VI. **BLOCK BOOTSTRAP PREDICTION INTERVALS FOR GARCH PROCESSES**
BEYAZTAŞ B. H. , Beyaztas U.
REVSTAT-STATISTICAL JOURNAL, vol.18, no.4, pp.397-414, 2020 (Journal Indexed in SCI)
- VII. **Prediction of dissolved oxygen, biochemical oxygen demand, and chemical oxygen demand using hydrometeorological variables: case study of Selangor River, Malaysia**
Salih S. Q. , Alakili I., Beyaztas U., Shahid S., Yaseen Z. M.
ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY, 2020 (Journal Indexed in SCI)
- VIII. **Murine genetic models of obesity: type I error rates and the power of commonly used analyses as assessed by plasmode-based simulation**
Ejima K., Brown A. W. , Smith D. L. , Beyaztas U., Allison D. B.
INTERNATIONAL JOURNAL OF OBESITY, vol.44, no.6, pp.1440-1449, 2020 (Journal Indexed in SCI)
- IX. **A comparison of parameter estimation in function-on-function regression**
Beyaztas U., Shang H. L.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, 2020 (Journal Indexed in SCI)
- X. **On function-on-function regression: partial least squares approach**
Beyaztas U., Shang H. L.
ENVIRONMENTAL AND ECOLOGICAL STATISTICS, vol.27, no.1, pp.95-114, 2020 (Journal Indexed in SCI)
- XI. **Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models**
Yaseen Z. M. , Al-Juboori A. M. , Beyaztas U., Al-Ansari N., Chau K., Qi C., Ali M., Salih S. Q. , Shahid S.
ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS, vol.14, no.1, pp.70-89, 2020 (Journal Indexed in SCI)
- XII. **Functional linear models for interval-valued data**
Beyaztas U., Shang H. L. , Abdel-Salam A. G.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, 2020 (Journal Indexed in SCI)
- XIII. **Drought interval simulation using functional data analysis**
Beyaztas U., Yaseen Z. M.
JOURNAL OF HYDROLOGY, vol.579, 2019 (Journal Indexed in SCI)
- XIV. **Forecasting functional time series using weighted likelihood methodology**
Beyaztas U., Shang H. L.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.89, no.16, pp.3046-3060, 2019 (Journal Indexed in SCI)
- XV. **Assessment of individual bioequivalence using sufficient bootstrap procedure**
Beyaztas U.
PHARMACEUTICAL STATISTICS, vol.18, no.3, pp.388-398, 2019 (Journal Indexed in SCI)
- XVI. **On Jackknife-After-Bootstrap Method for Dependent Data**

- Beyaztas U., BEYAZTAŞ B. H.
COMPUTATIONAL ECONOMICS, vol.53, no.4, pp.1613-1632, 2019 (Journal Indexed in SCI)
- XVII. **Robust change point detection for linear regression models**
Alin A., Beyaztas U., Martin M. A.
STATISTICS AND ITS INTERFACE, vol.12, no.2, pp.203-213, 2019 (Journal Indexed in SCI)
- XVIII. **Construction of functional data analysis modeling strategy for global solar radiation prediction: application of cross-station paradigm**
Beyaztas U., Salih S. Q. , Chau K, Al-Ansari N., Yaseen Z. M.
ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS, vol.13, no.1, pp.1165-1181, 2019 (Journal Indexed in SCI)
- XIX. **Construction of prediction intervals for Palmer Drought Severity Index using bootstrap**
Beyaztas U., Arikani B. B. , Beyaztas B. H. , Kahya E.
JOURNAL OF HYDROLOGY, vol.559, pp.461-470, 2018 (Journal Indexed in SCI)
- XX. **Sufficient m-out-of-n (m/n) bootstrap**
Alin A., Martin M. A. , Beyaztas U., Pathak P. K.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.87, no.9, pp.1742-1753, 2017 (Journal Indexed in SCI)
- XXI. **New block bootstrap methods: Sufficient and/or ordered**
Beyaztas B. H. , Firuzan E., Beyaztas U.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.46, no.5, pp.3942-3951, 2017 (Journal Indexed in SCI)
- XXII. **Sufficient jackknife-after-bootstrap method for detection of influential observations in linear regression models**
Beyaztas U., Alin A.
STATISTICAL PAPERS, vol.55, no.4, pp.1001-1018, 2014 (Journal Indexed in SCI)
- XXIII. **Delete-2 Jackknife-After-Bootstrap in Regression**
Beyaztas U., Alin A.
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, vol.30, no.7, pp.993-1002, 2014 (Journal Indexed in SCI)
- XXIV. **Jackknife-After-Bootstrap as Logistic Regression Diagnostic Tool**
Beyaztas U., Alin A.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.43, no.9, pp.2047-2060, 2014 (Journal Indexed in SCI)
- XXV. **Robust BCa-JaB method as a diagnostic tool for linear regression models**
Beyaztas U., Alin A., Martin M. A.
JOURNAL OF APPLIED STATISTICS, vol.41, no.7, pp.1593-1610, 2014 (Journal Indexed in SCI)
- XXVI. **Jackknife-After-Bootstrap Method for Detection of Influential Observations in Linear Regression Models**
Beyaztas U., Alin A.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.42, no.6, pp.1256-1267, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Stationary Bootstrap Based Multi-Step Forecasts for Unrestricted VAR Models**
BEYAZTAŞ U., Abdel-Salam A. G.
Journal of Data Science, vol.18, no.4, pp.682-696, 2020 (Refereed Journals of Other Institutions)
- II. **On block bootstrapping for autoregressive time series models**
BEYAZTAŞ B. H. , BEYAZTAŞ U.
International Journal of Mathematics and Computation, vol.30, no.2, pp.62-75, 2019 (Refereed Journals of Other

Institutions)

- III. **Iterated sufficient m-out-of-n (m/n) bootstrap for non-regular smooth function models**
BEYAZTAŞ U., ALIN A., Bandyopadhyay S.
Journal of Data Science, vol.16, no.3, pp.593-604, 2018 (Refereed Journals of Other Institutions)
- IV. **Iterated bootstrap procedure in individual bioequivalence**
BEYAZTAŞ U.
Communications Series A1: Mathematics and Statistics, vol.68, no.1, pp.583-594, 2018 (Journal Indexed in ESCI)
- V. **New and Fast Block Bootstrap-Based Prediction Intervals for GARCH(1,1) Process with Application to Exchange Rates**
BEYAZTAŞ B. H., BEYAZTAŞ U., Bandyopadhyay S., Huang W. M.
Sankhya A, vol.80, no.1, pp.168-194, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Change Point Detection in ARMA(p,q) Process and Application on Headway Data**
Beyaztaş U.
International Statistics Congress 2019, Muğla, Turkey, 04 October 2019, pp.732-743
- II. **On function-on-function regression: Partial least squares approach**
Beyaztaş U.
Young Business and Industrial Statisticians Workshop on Recent Advances in Data Science and Business Analytics, İstanbul, Turkey, 15 September 2019, pp.1
- III. **A case-resampling-based bootstrap method for function-on-function regression**
Beyaztaş U.
International Conference on Computational Methods in Applied Sciences, İstanbul, Turkey, 15 - 20 July 2019, pp.1
- IV. **Iterated Bootstrap Procedure in Individual Bioequivalence**
Beyaztaş U.
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 14 June 2018, pp.1
- V. **Stationary bootstrap based multi-step forecasts for unrestricted VAR models**
Beyaztaş U.
4th International Researchers, Statisticians and Young Statisticians Congress, İzmir, Turkey, 22 April 2018, pp.1
- VI. **Change point detection in vehicle time headways**
Beyaztaş U.
4th International Researchers, Statisticians and Young Statisticians Congress, İzmir, Turkey, 22 April 2018, pp.1
- VII. **Construction of Prediction Intervals for Palmer Drought Severity Index Using Bootstrap**
Beyaztaş U.
8th Atmospheric Sciences Symposium, İstanbul, Turkey, 01 November 2017, pp.540-543
- VIII. **On Jackknife-after-Bootstrap Method for Dependent Data**
Beyaztaş U.
European Network for Business and Industrial Statistics, Naples, Italy, 15 September 2017, pp.1
- IX. **On Bootstrapping in Individual Bioequivalence**
Beyaztaş U.
European Network for Business and Industrial Statistics, Naples, Italy, 15 September 2017, pp.1
- X. **Sufficient m-out-of-n (m/n) Bootstrap**
Beyaztaş U.
The International Conference on Trends and Perspectives in Linear Statistical Inference, İstanbul, Turkey, 15 August 2016, pp.1
- XI. **A Weighted Likelihood Ratio Test for Change Point Analysis in Time Series**
Beyaztaş U.
The International Conference on Robust Statistics ICORS2016, Geneva, Switzerland, 15 July 2016, pp.1
- XII. **A New and Fast Block Bootstrap Based Prediction Intervals for GARCH Processes with Application to**

Exchange Rates

Beyaztaş U.

The International Conference on Robust Statistics ICORS2016, Geneve, Switzerland, 15 July 2016, pp.1

XIII. Robust Change Point Regression

Beyaztaş U.

International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, Nevşehir, Turkey, 15 May 2016, pp.1

XIV. Some Notes on Sufficient Bootstrapping

Beyaztaş U.

The International Conference on Trends and Perspectives in Linear Statistical Inference, Linköping, Sweden, 15 August 2015, pp.1

XV. BCa-JaB Method as a Diagnostic Tool for Linear Regression Models

Beyaztaş U.

18th European Young Statisticians Meetings, Osijek, Croatia, 15 August 2013, pp.1

XVI. Sufficient Jackknife after Bootstrap Method for Detection of Influential Observations in Linear Regression Models

Beyaztaş U.

8th International Symposium of Statistics, Eskişehir, Turkey, 11 October 2012, pp.77-79

XVII. Jackknife-After-Bootstrap as Logistic Regression Diagnostic Tool

Beyaztaş U.

The International Conference on Trends and Perspectives in Linear Statistical Inference, Poznan, Poland, 15 July 2012, pp.1

XVIII. Jackknife after bootstrap method for detection of influential observations in linear regression models

Beyaztaş U.

New Developments in Theory and Applications of Statistics, Ankara, Turkey, 02 May 2011, pp.158-167

Supported Projects

Beyaztaş U., TUBITAK Project, Fonksiyonel Veri Analizinde Makine Öğrenmesi ve Kısmi En Küçük Kareler Tabanlı Yeni Öngörü, Tahmin ve Sınıflandırma Yöntemleri, 2021 - 2023

Scientific Refereeing

JOURNAL OF COMPUTING IN CIVIL ENGINEERING, SCI Journal, March 2021

BRAZILIAN JOURNAL OF PROBABILITY AND STATISTICS, SCI Journal, March 2021

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, March 2021

JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES A-STATISTICS IN SOCIETY, SCI Journal, February 2021

COMPUTATIONAL STATISTICS, SCI Journal, January 2021

MATHEMATICAL MODELLING AND ANALYSIS, SCI Journal, January 2021

KARAELEMAS FEN VE MÜHENDİSLİK DERGİSİ, National Scientific Refreed Journal, November 2020

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, September 2020

COMPLEXITY, SCI Journal, September 2020

JOURNAL OF APPLIED STATISTICS, SCI Journal, August 2020

GAZİ UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, May 2020

COMPUTATIONAL ECONOMICS, SCI Journal, April 2020

COMPUTATIONAL ECONOMICS, SCI Journal, February 2020

GAZİ UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, January 2020

BARTIN ÜNİVERSİTESİ EĞİTİM FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, November 2019

JOURNAL OF APPLIED STATISTICS, SCI Journal, November 2019

JOURNAL OF CLEANER PRODUCTION, SCI Journal, September 2019

ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS, National Scientific Refreed Journal, July 2019

COMPUTATIONAL ECONOMICS, SCI Journal, October 2018

Tasks In Event Organizations

Beyaztaş U., Young Business and Industrial Statisticians Workshop on Recent Advances in Data Science and Business Analytics, Scientific Congress, İstanbul, Turkey, Eylül 2019

Citations

Total Citations (WOS):68

h-index (WOS):7

Scholarships

2214-A Yurt Dışı Araştırma Burs Programı, TÜBİTAK, 2015 - 2016