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Education

Doctorate	Izmir University Of Economics, Institute Of Science, Uygulamalı Matematik Ve	
2009 - 2013	İstatistik, Turkey	
Postgraduate	Yildiz Technical University, Graduate School Of Natural And Applied Sciences,	
2005 - 2008	İstatistik, Turkey	
Undergraduate 2003 - 2008	Yildiz Technical University, Fen Edebiyat Fakültesi, Matematik, Turkey	
Undergraduate 2001 - 2005	Yildiz Technical University, Fen Edebiyat Fakültesi, İstatistik, Turkey	

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Modifications of Bivariate Binomial Distribution and Conditional Bivariate Order Statistics , İzmir Ekonomi Üniversitesi, Fen Bilimleri Enstitüsü, Uygulamalı Matematik Ve İstatistik, 2013

Postgraduate, Konveks Olmayan Çok Kriterli Optimizasyon ve Portföy Seçimi Problemi , Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, İstatistik, 2008

Academic Titles / Tasks

Associate Professor 2017 - Continues	Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics
Assistant Professor 2014 - 2017	Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics
Research Assistant PhD 2013 - 2014	Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics
Research Assistant 2005 - 2013	Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics

Supported Projects

- 1. Çerik T., Kemalbay G., TUBITAK Project, Genetik Programlama ile Türkiye Buğday Verim Tahmini, 2022 2023
- 2. Korkmaz Y., Kemalbay G., TUBITAK Project, Solar Power Plant Production Prediction with Metaheuristic Optimization Technique, 2022 2023
- 3. Yeter F., Durdu U., Kemalbay G., TUBITAK Project, Classification of Online Complaints of an Airline Business with Text Mining, 2022 2023
- 4. Ulusoy B., Durdu U., Kemalbay G., TUBITAK Project, Turkish Sentiment Analysis for Product Reviews on an E-Commerce Site with Machine Learning, 2022 2023
- 5. Kemalbay G., Rendeci Z., Project Supported by Higher Education Institutions, Propensity to Buy Prediction for an E-Commerce Company with Unbalanced Data Set, 2022 2023
- 6. Ölmez S., Kırman O., Kemalbay G., TUBITAK Project, Optimal Strategy Selection for Stock Investor Based on Company Performance Ranking, 2021 2022
- 7. Ulusoy B., Aykurt İ., Kemalbay G., TUBITAK Project, Borsa İstanbul Stock Index Return Direction Prediction with Economic News Using Text Mining, 2021 2022
- 8. Korkmaz Y., Aykurt İ., Kemalbay G., TUBITAK Project, Group Constrained Portfolio Model According to Market Trend and Its Heuristic Solution, 2021 2022
- 9. Erözel S., Yığman M., Kemalbay G., TUBITAK Project, Portfolio Optimization Based on Stock Price Prediction with Long-Short-Term Memory Approach, 2021 2022
- 10. KEMALBAY G., Durdu U., Project Supported by Higher Education Institutions, Öneri Sistemlerinde Otokodlayıcı Tabanlı Derin Öğrenme Yaklaşımı, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. On distribution of upper marginal records in bivariate random sequences KEMALBAY G., Bayramoğlu I.

Turkish Journal of Mathematics, vol.43, no.3, pp.1474-1491, 2019 (SCI-Expanded)

2. Joint distribution of new sample rank of bivariate order statistics

KEMALBAY G., Bayramoglu (Bairamov) I.

JOURNAL OF APPLIED STATISTICS, vol.42, no.10, pp.2280-2289, 2015 (SCI-Expanded)

3. Some novel discrete distributions under fourfold sampling schemes and conditional bivariate order statistics

Bayramoglu (Bairamov) I., Kemalbay G.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.248, pp.1-14, 2013 (SCI-Expanded)

Articles Published in Other Journals

1. Prediction of stock index movement direction with multiple logistic regression and k-nearest neighbors algorithm

Kemalbay G., Alkış B. N.

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.4, no.27, pp.556-559, 2021 (Peer-Reviewed Journal)

2. Sarima-arch versus genetic programming in stock price prediction

Kemalbay G., Berak Korkmazoğlu Ö.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.39, no.2, pp.110-122, 2021 (Scopus)

3. Categorical Principal Component Logistic Regression A Case Study for Housing Loan Approval Kemalbay G., Berak Korkmazoğlu Ö.

Procedia - Social and Behavioral Sciences, vol.109, pp.730-736, 2014 (Conference Book)

4. Effects of multicollinearity on electricity consumption forecasting using partial least squares regression

Kemalbay G., Berak Korkmazoğlu Ö.

Procedia - Social and Behavioral Sciences, vol.62, pp.1150-1154, 2012 (Conference Book)

5. Econometrics Application of Partial Least Squares Regression An Endogeneous Growth Model for Turkey

Berak Korkmazoğlu Ö., Kemalbay G.

Procedia - Social and Behavioral Sciences, vol.62, pp.906-910, 2012 (Conference Book)

6. Portfolio Selection with Higher Moments A Polynomial Goal Programming Approach to ISE 30 Index Kemalbay G., Özkut C. M., Franko C.

Ekoist journal of econometrics and statistics (Online), no.13, pp.41-61, 2011 (Peer-Reviewed Journal)

7. Lineer Olmayan Ayırma Teoremi ve Asıl Minimal Noktaların Karakterizasyonu AZİMLİ A., KEMALBAY G.

İstatistikçiler Dergisi, vol.1, pp.88-94, 2008 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

1. Hisse Yatırımcısı için Şirket Performans Sıralamasına Dayalı Optimal Strateji Seçimi Ölmez S., Kemalbay G.

8. Uluslararası Marmara Fen Bilimleri Kongresi, Kocaeli, Turkey, 13 - 14 May 2022, pp.23

2. Pazar Eğilimine Göre Grup Kısıtlı Portföy Modeli ve Sezgisel Çözümü

Korkmaz Y., Kemalbay G.

8. Uluslararası Marmara Fen Bilimleri Kongresi, Kocaeli, Turkey, 13 - 14 May 2022, pp.24

3. Borsa İstanbul Stock Index Return Direction Prediction with Economic News Using Text Mining Ulusoy B., Kemalbay G.

7. Uluslararası Mühendislik Ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 16 - 18 April 2022, pp.830

4. Portfolio Optimization Based on Stock Price Prediction with Long-Short-Term Memory Approach Erözel S., Yığman M., Kemalbay G.

7. Uluslararası Mühendislik Ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 16 - 18 April 2022, pp.911

5. Developing a Personalized Recommender System in an E-Commerce Firm

Levent A., Kemalbay G.

7. Uluslararası Mühendislik Ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 16 - 18 April 2022, pp.823

6. Propensity to Buy Prediction for an E-Commerce Company with Unbalanced Data Set

Rendeci Z., Kemalbay G.

7. Uluslararası Mühendislik Ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 16 - 18 April 2022, pp.931

7. Autoencoder Based Deep Learning Approach in Recommender Systems

Durdu U., Kemalbay G.

5. Uluslararası Mühendislik Ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 24 - 25 April 2021, pp. 669

8. Genetic Programming in Financial Time Series Prediction

Kemalbay G.

 $\label{lem:continuous} \begin{tabular}{l} Virtual International Conference on Soft Computing, Optimization Theory and Applications , Ranchi, India, 26-27 \\ March 2021, pp.17 \end{tabular}$

9. Component-wise Records of Bivariate Random Sequences

Kemalbay G.

Recent Advances in Probability & Statistics: An International Conference in Honor of Ismihan Bayramoglu (Bairamov) for His 60th Birthday, İstanbul, Turkey, 24 - 25 June 2019, pp.16

10. Sezgisel Algoritmalar ile Portföy Optimizasyonu: BIST 30 Uygulaması

Kurtulmuş C., Kemalbay G.

Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi, Kocaeli, Turkey, 26 - 28 April 2019, pp.165

11. Yapay Sinir Ağları İle Uzun Dönem Türkiye Elektrik Tüketim Tahmini

Turgut S., Kemalbay G.

XI International Balkan and Near Eastern Social Sciences Congress Series, Tekirdağ, Turkey, 09 March 2019, pp.939

12. The Joint Distribution of Marginal Records in Extended Bivariate Random Sequences

KEMALBAY G.

4th International Conference on New Advances in Statistics, Saint Petersburg, Russia, 11 May 2018, pp.22

13. A Hybrid Seasonal Autoregressive Integrated Moving Average for the Predicting of Tourism Demand Kemalbay G., Berak Korkmazoğlu Ö.

4th International Conference on New Advances in Statistics, Sankt-Peterburg, Russia, 11 - 13 May 2018, pp.23

14. On Distribution of Bivariate Record Statistics

KEMALBAY G.

3rd International Researchers, Statisticians and Young Statisticians Congress 3rdIRSYSC, 24 - 26 May 2017

15. Distribution of the Second Upper Record Statistics from Bivariate Sample

KEMALBAY G.

3rd International Conference on Advances in Statistics ICAS2017, 28 - 30 April 2017

16. Prediction of the Stock Index Direction with Binary Classification Methods

Kemalbay G., Alkış B. N.

3rd International Balkan and Near Eastern Social Sciences Congress Series III. IBANESS, Edirne, Turkey, 4 - 05 March 2017, pp.1779

17. The Rank of Bivariate Extreme Order Statistics: An Application in Hydrology

KEMALBAY G.

12th International Conference on Ordered Statistical Data OSD2016, 25 - 28 May 2016

18. A Genetic Programming Based Stock Return Prediction

KEMALBAY G., BERAK KORKMAZOĞLU Ö.

5th World Conference on Business, Economics and Management 5th WCBEM, 12 - 14 May 2016

19. Classification of the Stock Index Direction with Logit Model

KEMALBAY G., ALKIŞ B. N.

2nd International Conference on Advances in Statistics ICAS2016, Zagreb, Croatia, 19 - 22 April 2016

20. Forecasting Tourist Arrivals to Turkey with Genetic Programming

Berak Korkmazoğlu Ö., Kemalbay G.

2nd International Conference on Advances in Statistics ICAS2016, Zagreb, Croatia, 19 - 22 April 2016

21. A Hydrological Application of the Rank of Bivariate Extreme Order Statistics KEMALBAY G.

2nd International Conference on Advances in Statistics ICAS2016, Zagreb, Croatia, 19 - 22 April 2016

22. Estimating Covariance As a Measure of Portfolio Risk Between Highly Correlated Assets Kemalbay G., Berak Korkmazoğlu Ö.

International Conference on Advances in Statistics ICAS2015, Dubai, United Arab Emirates, 24 - 28 March 2015, pp.103

23. Conditional Bivariate Order Statistics Connected with The Modified Bivariate Binomial Distribution KEMALBAY G., BAYRAMOĞLU İ.

7th International Workshop on Applied Probability (IWAP), Antalya, Turkey, 16 - 19 June 2014

24. Distribution of the Rank of Order Statistics from Bivariate Sample

KEMALBAY G., BAYRAMOĞLU İ.

11th International Conference on Ordered Statistical Data, Bedlewo, Poland, 2 - 06 June 2014

25. On a New Sample Rank of Bivariate Order Statistics

KEMALBAY G., BAYRAMOĞLU İ.

9th International Statistic Days Symposium, Antalya, Turkey, 10 - 14 May 2014

26. On Marginal Distribution of Conditional Largest Order Statistics From Bivariate Sample KEMALBAY G.

8th International Statistics Congress, Antalya, Turkey, 27 - 30 October 2013

27. Distribution of Conditional Order Statistics

KEMALBAY G., BAYRAMOĞLU İ.

8th International Symposium of Statistics, Antalya, Turkey, 11 - 13 October 2012

28. Distribution of Bivariate Order Statistics When Some of Observations are Truncated

KEMALBAY G., BAYRAMOĞLU İ.

OSDA-2012 Tenth International Conference on Ordered Statistical Data and Their Applications, Murcia, Spain, 23 - 25 May 2012

29. Conditional Bivariate Order Statistics

KEMALBAY G., BAYRAMOĞLU İ.

ICAPS-2011 International Conference on Advances in Probability and Statistics-Theory and Applications: A Celebration of N. Balakrishnan's 30 years of Contributions to Statistics, Hong Kong Sar, China, 28 - 31 December 2011

30. Portfolio Selection with Higher Moments A Polynomial Goal Programming Approach to ISE 30 Index KEMALBAY G., ÖZKUT C. M., FRANKO C.

12th International Symposium on Econometrics, Operations Research and Statistics, Denizli, Turkey, 26 - 29 May 2011

31. On The Lifetime Evaluation of n f k G Systems

KEMALBAY G.

International Science and Technology Conference ISTEC, Cyprus (Kktc), 27 - 29 October 2010

32. Türkiye de Bütçe Dengesi Yapısının VAR Tekniği ile Analizi

KEMALBAY G.

International Science and Technology Conference ISTEC, Cyprus (Kktc), 27 - 29 October 2010

33. Dahi Matematikçi Andrey N Kolmogorov

AZİMLİ A., KEMALBAY G.

IV. Ulusal Mantık, Matematik ve Felsefe Sempozyumu, İzmir, Turkey, 5 - 08 September 2006

2019 - Continues	Bölüm Staj Komisyonu	Yildiz Technical University, Faculty of Arts & Science, Department of
2015 - Continues	Başkanı Bölüm Erasmus Staj Komisyonu Üyesi	Statistics Yildiz Technical University, Faculty of Arts & Science, Department of Statistics
2014 - 2019	Bölüm Staj Komisyonu Üyesi	Yildiz Technical University, Faculty of Arts & Science, Department of Statistics

Courses

Doctorate

İstatistikte İleri Matematiksel Yöntemler, Doctorate, 2016 - 2017

Postgraduate

İstatistikte Matematiksel Yöntemler, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Undergraduate

Optimizasyon, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Statistics, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Olasılığa Giriş, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Probability and Statistics, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Probability Theory and Statistics, Undergraduate, 2016 - 2017

Uygulamalı Optimizasyon, Undergraduate, 2016 - 2017

İstatistikte Parametre Tahmini ve Hipotez Testi, Undergraduate, 2016 - 2017

Computer Programming, Undergraduate, 2016 - 2017

Supervised Theses

Kemalbay G., Derin Yapay Sinir Ağları ile Zaman Serisi Öngörüsü, Doctorate, A.Tukur (Student), Continues

Kemalbay G., A Research on Classification Analysis with Genetic Algorithm, Doctorate, E.Kurtuluş (Student), Continues

Kemalbay G., Metin Madenciliği ve Bir Uygulama, Doctorate, U.Durdu(Student), Continues

Kemalbay G., Derin Sinir Ağları ile Çok Değişkenli Hisse Fiyat Tahmini, Postgraduate, S.Serin(Student), 2024

Kemalbay G., Propensity to Buy Prediction for an E-Commerce Company with Unbalanced Data Set, Postgraduate,

Z.Rendeci(Student), 2023

Kemalbay G., Developing a Personalized Recommender System in an E-commerce Firm, Postgraduate, A.Levent(Student), 2022

Kemalbay G., Autoencoder Based Deep Learning Approach in Recommendation Systems, Postgraduate,

U.Durdu(Student), 2022

Kemalbay G., Cardinality Constrained Portfolio Optimization with Differential Evolution Algorithm, Postgraduate,

C.Kurtulmuş(Student), 2020

Kemalbay G., Turkey's long-term electricity demand forecasting with artificial neural networks, Postgraduate,

S.Turgut(Student), 2019

Kemalbay G., Prediction of the BIST 100 index direction with multiple logistic regression and k-nearest neighbors methods, Postgraduate, B.Nur(Student), 2018

Peer Reviews in Scientific Publications

Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, July 2020 COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, Journal Indexed in SCI-E, June 2020 Journal of Engineering Technology and Applied Sciences, Other Indexed Journal, September 2019 JOURNAL OF APPLIED STATISTICS, SCI Journal, July 2019

JOURNAL OF APPLIED STATISTICS, SCI Journal, November 2018

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, October 2018

Pakistan Journal of Statistics, Other Indexed Journal, September 2018

JOURNAL OF APPLIED STATISTICS, SCI Journal, July 2018

Journal of Engineering Technology and Applied Sciences, Other Indexed Journal, June 2018

COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, SCI Journal, June 2018

JOURNAL OF APPLIED STATISTICS, SCI Journal, April 2018

JOURNAL OF APPLIED STATISTICS, SCI Journal, November 2017

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, SCI Journal, June 2017

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, SCI Journal, April 2017

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, SCI Journal, September 2016

JOURNAL OF APPLIED STATISTICS, SCI Journal, July 2016

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, SCI Journal, April 2016

İSTATİSTİK, Journal of the Turkish Statistical Association, Other Indexed Journal, August 2015

Tasks In Event Organizations

Kemalbay G., Recent Advances in Probability & Statistics: An International Conference in Honor of Ismihan Bayramoglu (Bairamov) for His 60th Birthday, Scientific Congress, İstanbul, Turkey, Haziran 2019

Kemalbay G., 5th International Conference on New Advances in Statistics, Scientific Congress, Athens, Greece, Nisan 2019

Kemalbay G., 4th International Conference on New Advances in Statistics, Scientific Congress, Sankt-Peterburg, Russia,

Mayıs 2018

Kemalbay G., 3rd International Conference on Advances in Statistics, Scientific Congress, Helsinki, Finland, Nisan 2017

Kemalbay G., 2nd International Conference on Advances in Statistics, Scientific Congress, Zagreb, Croatia, Nisan 2016

Kemalbay G., 1st International Conference on Advances in Statistics, Scientific Congress, Dubai, United Arab Emirates,

Mart 2015

Kemalbay G., 11th International Statistics Student Colloquium, Scientific Congress, İstanbul, Turkey, Mayıs 2014

Metrics

Publication: 46 Citation (WoS): 34 Citation (Scopus): 23 H-Index (WoS): 4 H-Index (Scopus): 3

Invited Talks

Virtual International Conference on Soft Computing, Optimization Theory and Applications , Conference, Birla Institute of Technology, India, March 2021

Research Areas

Statistics, Statistical Analysis and Applications, Natural Sciences