Prof. SEVTAP AYŞE KESTEL

Personal Information

Email: skestel@metu.edu.tr

Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, Turkey 1989 - 2007
Post Graduate, Saint John''s University, The Peter J. Tobin College of Business, School of Risk Management, Insurance and Actuarial Science, United States Of America 1997 - 1998
Post Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, Turkey 1986 - 1988
Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, Turkey 1981 - 1985

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, A Probabilistic Model for the Evaluation of Lifeline Networks under Seismic Hazard., Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 1997
Post Graduate, Estimation of Reliability Indices by Monte Carlo Simulation in Electric Power Generation Systems, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 1989

Research Areas

Mathematics, Economics, Social Sciences and Behavioral Sciences, Statistics, Statistical Analysis and Applications, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Institute Of Applied Mathematics, Actuarial Science, 2017 - Continues
Associate Professor, Middle East Technical University, Institute Of Applied Mathematics, Actuarial Science, 2012 - 2017
Assistant Professor, Middle East Technical University, Institute Of Applied Mathematics, Actuarial Science, 2009 - 2012

Professional Experience

Head of Department, Middle East Technical University, Institute of Applied Mathematics, Financial Mathematics, 2017 - Continues
Assistant Director of the Institute, Middle East Technical University, Institute of Applied Mathematics, 2012 - 2017
Deputy Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics,

1998 - 2001
Deputy Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 1996 - 1997

Advising Theses

Kestel S. A. , Dalkır S., INFLUENCE OF RENEWABLE ENERGY ON CARBON PRICES IN THE USA, Post Graduate, H.ESİN(Student), 2020
Kestel S. A. , Türker Bayrak Ö., DETERMINATION OF ADEQUATE FUNDING FOR UNEMPLOYMENT INSURANCE IN TURKEY, Post Graduate, H.BURAK(Student), 2020
Kestel S. A. , HOUSING MARKET DYNAMICS AND ADVANCES IN MORTGAGES: OPTION BASED MODELING AND HEDGING, Doctorate, B.YILMAZ(Student), 2019
Askan Gündoğan A., Kestel S. A. , BROADBAND GROUND MOTION SIMULATION WITHIN DUZCE CITY (TURKEY), Post Graduate, E.ÖZMEN(Student), 2019
Kestel S. A. , Uğur Ö., Comparison of machine learning algorithms on consumer credit classification, Post Graduate, O.KOÇ(Student), 2019
Kestel S. A. , Sezgin Alp Ö., Corporate strategies for currency risk management, Post Graduate, İ.BERAT(Student), 2019
Kestel S. A. , Sürücü B., Modelling and Forecasting Age-Segmented Mortality: Evaluation of Lee-Carter Method and Its Extensions, Post Graduate, R.SIDAR(Student), 2019
Kestel S. A. , Early warning model with machine learning for Turkish Insurance Sector, Post Graduate, G.BURAK(Student), 2019
Kestel S. A. , Utilization of outlier-adjusted lee-carter model in mortality estimation on whole life annuities, Post Graduate, C.YAVRUM(Student), 2019
Kestel S. A. , Weber G., Modeling problems in a regional labor market - by mars and artificial intelligence - poland case, Post Graduate, S.GÜTMEN(Student), 2019
Kestel S. A. , Measuring longevity risk on second pillar pension system: Turkey case, Post Graduate, G.NURDAĞ(Student), 2018
YOZGATLIGİL C., KESTEL S. A. , Mixture of vines for dependence modeling: Finite mixture and Cd-vine approaches with applications, Doctorate, Ö.OZAN(Student), 2018
Kestel S. A. , Çalışkan Schindler N., Empirical comparison of portfolio risk diversification algorithms, Post Graduate, Ç.YERLİ(Student), 2018
Kestel S. A. , De Lourdes Centena M., Reinsurance pricing using exposure curve of two dependent risks, Post Graduate, G.AKARSU(Student), 2018
UĞUR Ö., KESTEL S. A. , Efficient Simulation and Modelling of Counterparty Credit Risk, Doctorate, A.ALİ(Student), 2018
Kestel S. A. , Tank F., The comparison of risk measures on claim distributions: Turkish motor insurance case, Post Graduate, C.TELKES(Student), 2018
KESTEL S. A. , Flexibility modelling of natural gas contracts: i·stanbul case, Post Graduate, C.FUAD(Student), 2016
YOZGATLIGİL C., KESTEL S. A. , Bivariate hidden Markov model to capture the dependency in claim estimate, Post Graduate, Z.OFLAZ(Student), 2016
KESTEL S. A. , Discrete-time surplus process for takaful insurance with multiple threshold levels, Post Graduate, A.ACHLAK(Student), 2016
KESTEL S. A. , Risk premium estimation in mtpl insurance using copula:Turkey case, Post Graduate, E.USTA(Student), 2016
KESTEL S. A. , Assessment of Solvency II requirements for Turkish insurance market, Post Graduate, M.HÖBEK(Student), 2016
KESTEL S. A. , CPPI strategy on defined contribution pension scheme under cushion option and discrete time trading setting, Post Graduate, A.GÜLVEREN(Student), 2016
KESTEL S. A. , Hydro inflow forecasting and virtual power plant pricing in the Turkish electricity market, Post Graduate, S.ÇABUK(Student), 2016
KESTEL S. A. , A quantitative risk assessment methodology for occupational accidents in underground coal mines:A case

of Turkish Hard Coal Enterprises, Doctorate, H.HÜSEYİN(Student), 2016
Kestel S. A. , Kalaycı E., Flexibility modelling of natural gas contracts: istanbul case, Post Graduate, C.FUAD(Student), 2016
UĞUR Ö., KESTEL S. A. , Stochastic surplus processes with VaR and CVaR simulations in actuarial applications, Post Graduate, M.ŞİMŞEK(Student), 2016
KESTEL S. A. , Determination of inflation rate in a hidden Markov model framework: Turkey case, Post Graduate, D.AYDOĞAN(Student), 2015
KESTEL S. A. , Modeling future mortality rates using both deterministic and stochastic approaches, Post Graduate, E.HASGÜL(Student), 2015
KESTEL S. A. , An early warning model for Turkish insurance companies, Post Graduate, G.OCAK(Student), 2015
KESTEL S. A. , Constant proportion portfolio insurance in defined-contribution pension plan management, Doctorate, B.ZEYNEP(Student), 2015
KESTEL S. A. , The estimation of adopted mortality and morbidity rates using Markov model and phase type law: Turkish case, Post Graduate, F.AKAT(Student), 2015
KESTEL S. A. , ASKAN GÜNDOĞAN A., Ground motion simulations based on regional input parameters and their impact on insurance premiums: Bursa case, Post Graduate, B.ÜNAL(Student), 2015
Kestel S. A. , Küçüközmen C., The relation between crude oil prices and financial market indicators: a copula approach, Post Graduate, D.EZGİ(Student), 2014
KESTEL S. A. , Demand, supply and partial equilibrium analysis of Turkish electricity energy pricing, Post Graduate, A.ÖZDEMİR(Student), 2013
Kestel S. A. , Genetic algorithm approach for the optimization of technical trading rule parameters, Post Graduate, T.HÜLAGÜ(Student), 2001
Tiku M. L. , Kestel S. A. , Experimental design under nonnormality, Doctorate, B.ŞENOĞLU(Student), 2000
Kestel S. A. , Parameter Estimation of Some Discrete Trivaiate Distributions and Applications of These Distributions, Post Graduate, Ö.Mehmet(Student), 1997

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

- **Computation of Hedging Coefficients for Mortgage Default and Prepayment Options: Malliavin Calculus Approach**
  YILMAZ B., Selcuk-Kestel A. S.
  JOURNAL OF REAL ESTATE FINANCE AND ECONOMICS, vol.59, pp.673-697, 2019 (Journal Indexed in SSCI)
- **The estimation of adopted mortality and morbidity rates using model and the phase type law: the Turkish case**
  Akat F., Selcuk-Kestel A. S. , Tank F.
  Communications in Statistics: Simulation and Computation, vol.48, pp.2552-2565, 2019 (Journal Indexed in SCI)
- **AGGREGATE CLAIM ESTIMATION USING BIVARIATE HIDDEN MARKOV MODEL**
  Oflaz Z. N. , YOZGATLIGİL C., Selcuk-Kestel A. S.
  ASTIN BULLETIN, vol.49, pp.189-215, 2019 (Journal Indexed in SCI)
- **Constant proportion portfolio insurance in defined contribution pension plan management**
  TEMOÇİN B. Z. , Korn R., Selcuk-Kestel A. S.
  ANNALS OF OPERATIONS RESEARCH, vol.266, pp.329-348, 2018 (Journal Indexed in SCI)
- **Preface: Advances of OR in commodities and financial modelling**
  KESTEL S. A. , Yolcu-Okur Y., Weber G.
  ANNALS OF OPERATIONS RESEARCH, vol.260, pp.1-2, 2018 (Journal Indexed in SCI)
- **Constant proportion portfolio insurance in defined contribution pension plan management under discrete-time trading**
  TEMOÇİN B. Z. , KORN R., Selcuk-Kestel A. S.
  ANNALS OF OPERATIONS RESEARCH, vol.260, pp.515-544, 2018 (Journal Indexed in SCI)
- **Analysis of training sample selection strategies for regression-based quantitative landslide susceptibility mapping methods**

ERENER A., Sivas A. A. , KESTEL S. A. , Duzgun H. S.
COMPUTERS & GEOSCIENCES, vol.104, pp.62-74, 2017 (Journal Indexed in SCI)

- **Simulation of large earthquakes and its implications on earthquake insurance rates: a case study in Bursa region (Turkey)**
  ÜNAL B., Askan A., Selcuk-Kestel A. S.
  NATURAL HAZARDS, vol.85, pp.215-236, 2017 (Journal Indexed in SCI)
- **The impact of crude oil prices on financial market indicators: copula approach**
  Kayalar D. E. , KÜÇÜKÖZMEN C. Ç. , KESTEL S. A.
  ENERGY ECONOMICS, vol.61, pp.162-173, 2017 (Journal Indexed in SSCI)
- **The impact of crude oil prices on financial market indicators Copula Approach**
  ÖZTÜRKKAYALAR D., KÜÇÜKÖZMEN C., KESTEL A. S.
  Energy Economics, vol.61, pp.162-173, 2016 (Journal Indexed in SSCI)
- **Adjusting SPI for crop specific agricultural drought**
  YILDIRAK Ş. K. , KESTEL A. S.
  ENVIRONMENTAL AND ECOLOGICAL STATISTICS, vol.22, pp.681-691, 2015 (Journal Indexed in SCI)
- **Analysis of portfolio diversification between REIT assets**
  Rees P., Selcuk-Kestel A. S.
  JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.425-433, 2014 (Journal Indexed in SCI)
- **A GIS-based software for lifeline reliability analysis under seismic hazard**
  KESTEL A. S. , DÜZGÜN H. Ş. , ODUNCUOĞLU L.
  COMPUTERS & GEOSCIENCES, vol.42, pp.37-46, 2012 (Journal Indexed in SCI)
- **Stochastic modeling of accident risks associated with an underground coal mine in Turkey**
  Sari M., Selcuk A. S. , Karpuz C., Duzgun H. S. B.
  SAFETY SCIENCE, vol.47, pp.78-87, 2009 (Journal Indexed in SCI)
- **Accident analysis of two Turkish underground coal mines**
  Sarı M., Duzgun H., Karpuz C., Selcuk A.
  SAFETY SCIENCE, vol.42, pp.675-690, 2004 (Journal Indexed in SCI)
- **Nonnormal regression. II. Symmetric distributions**
  Tiku M., Islam M., Selcuk A.
  COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.30, pp.1021-1045, 2001 (Journal Indexed in SCI)
- **Reliability of lifeline networks with multiple sources under seismic hazard**
  KESTEL A. S. , YUCEMEN M. S.
  NATURAL HAZARDS, vol.21, pp.1-18, 2000 (Journal Indexed in SCI)
- **Reliability of Lifeline Networks under Seismic Hazard**
  KESTEL A. S. , YUCEMEN M. S.
  Reliability Engineering Safety, vol.65, pp.213-227, 1999 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Quantitative hazard assessment for Zonguldak Coal Basin underground mines**
  Erdogan H. H. , Duzgun H. S. , Selcuk-Kestel A. S.
  INTERNATIONAL JOURNAL OF MINING SCIENCE AND TECHNOLOGY, vol.29, pp.453-467, 2019 (Journal Indexed in ESCI)
- **ASSESSMENT OF SUPPLIER RISK FOR COPPER PROCUREMENT**
  Buzdogan-Lindenmayr E., Kara G., Selcuk-Kestel A. S.
  COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, pp.1045-1060, 2019 (Journal Indexed in ESCI)
- **A STOCHASTIC APPROACH TO MODEL HOUSING MARKETS: THE US HOUSING MARKET CASE**
  YILMAZ B., Selcuk-Kestel A. S.
  NUMERICAL ALGEBRA CONTROL AND OPTIMIZATION, vol.8, pp.481-492, 2018 (Journal Indexed in ESCI)

- **Measuring Dependence between Electricity Consumption and Economic Indicators via Copulas: Turkish Case**
  Evkaya O. O. , YOZGATLIGİL C., SELCUK-KESTEL A. S.
  GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, pp.1284-1296, 2018 (Journal Indexed in ESCI)
- **Diversification benefit and return performance of REITs using CAPM and Fama-French: Evidence from Turkey**
  Coskun Y., Selcuk-Kestel A. S. , YILMAZ B.
  BORSA ISTANBUL REVIEW, vol.17, pp.199-215, 2017 (Journal Indexed in ESCI)
- **Assessment of Index-based Drought Insurance**
  EVKAYA Ö. O. , YILDIRAK Ş. K. , KESTEL A. S.
  Ekonomik Yaklaşım, vol.28, pp.1-18, 2017 (Refereed Journals of Other Institutions)
- **Analyses on the Causality in Carbon Emission with respect to Economic Growth and Education**
  ÜNLÜ K. D. , KESTEL A. S.
  GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, pp.161-179, 2017 (Journal Indexed in ESCI)
- **Estimation of earthquake insurance Premium rates Turkish catastrophe insurance pool case**
  TEMOÇİN B. Z. , KESTEL A. S.
  AÜÜF Communications: Series A1: Mathematics and Statistics, vol.65, pp.161-173, 2016 (Other Refereed National Journals)
- **Length biased Inverse Gaussian Hazard Rate Estimation A Predictive Density Approach**
  AKMAN O., KESTEL A. S.
  Advances and Applications in Statistics, vol.6, pp.217-233, 2006 (Journal Indexed in ESCI)
- **Compulsory Earthquake Insurance Scheme for Residences In Turkey And Its Implications**
  KESTEL A. S. , GÜLKAN H. P.
  Journal of International Insurance, vol.1, pp.447-457, 2001 (Refereed Journals of Other Institutions)
- **The Turkish Insurance Market Land of Opportunity**
  KESTEL A. S.
  Journal of International Insurance, vol.1, pp.77-90, 1999 (Refereed Journals of Other Institutions)

Books & Book Chapters

- **Actuarial Present Value and Variance for Changing Mortality and Stochastic Interest Rates**
  YILDIRIM B., KESTEL A. S. , ERGÖKMEN G.
  in: Modeling, Dynamics, Optimization and Bioeconomics II, Pinto, Alberto, Zilberman, David, Editor, Springer Proceedings in Mathematics Statistics, Berkeley, pp.495-512, 2017
- **A Bayesian Pricing Model for CAT Bonds**
  FRIEDER A., FUESS R., KESTEL A. S.
  in: Springer Proceedings in Mathematics Statistics : Modeling, Dynamics, Optimization and Bioeconomics I, Alberto Pinto and David Zilberman, Editor, SPRINGER, 2014

Refereed Congress / Symposium Publications in Proceedings

- **Assessment of Longevity Risk on PensionFunds: Credibility Approach**
  YILDIRIM KÜLEKCİ B., KESTEL A. S.
  11th International Statistics Congress (ISC11), Bodrum, Turkey, 4 - 08 October 2019
- **Exposure Curve for The Sum of Two Dependent Risks**
  Kestel S. A. , Akarsu G., De Lourdes Centeno M.
  23rd International Congress on Insurance: Mathematics and Economics (IME), Munich, Germany, 10 - 12 July 2019, pp.58
- **Ischemic Heart Disease Morbidity Rates Estimation using Hidden Markov Model Regression**

Oflaz Z., Yozgatlıgil C., Kestel S. A.
23rd International Congress on Insurance: Mathematics and Economics (IME), Munich, Germany, 10 July 2019, pp.53

- **Uzun Ömürlülük Risk Analizi: Kredibilite Yaklaşımı**
  Yıldırım Külekci B., Kestel S. A.
  4. Ulusal Sigorta ve Aktüerya Kongresi, Ankara, Turkey, 24 - 25 June 2019, pp.75
- **Single-Family Houses Portfolio Optimization under Impact of Large Investors in Housing Markets**
  Yılmaz B., Korn R., Kestel S. A.
  9th General AMaMeF Conference, Paris, France, 11 - 14 June 2019, pp.54-55
- **Hydro Inflow Forecasting and Virtual Power Plant Pricing in the Turkish Electricity market**
  Çabuk S., Kestel S. A. , Kalaycı E.
  7th Multinational Energy and Value Conference, Ankara, Turkey, 23 - 25 May 2019, pp.13
- **Extreme Value Theory on Valuation of Actuarial Risk**
  YILDIRIM KÜLEKCİ B., KESTEL A. S. , KARABEY U.
  11. International Statistics Days Conference, BODRUM, Turkey, 3 - 07 October 2018
- **Default and Prepayment Risk Management Using Option Based Mortgage Contract PricingMethod**
  YILMAZ B., KESTEL A. S.
  4th European Actuarial Journal Conference, Leuven, Belgium, 9 - 11 September 2018, pp.71
- **Optimal Stop-Loss Reinsurance: A Dependence Analysis of Aggregate Claims under Certain Distributions**
  MERT Ö. M. , KESTEL A. S.
  4th European Actuarial Journal Conference, Leuven, Belgium, 9 - 11 September 2018, pp.61
- **Multivariate Extreme Value Theory on the Valuation of Tail Behavior in Actuarial Science**
  YILDIRIM KÜLEKCİ B., KESTEL A. S. , KARABEY U.
  4th European Actuarial Journal Conference, Leuven, Belgium, 9 - 11 September 2018
- **Data sharing under confidentiality**
  Başer E., Hülagu T., Akyıldız E., Bilgen A., Cenk M., Keskinkurt-Paksoy İ., Kestel S. A.
  Ninth IFC Conference , Basel, Switzerland, 30 - 31 August 2018, pp.1057-1072
- **Estimation Of Claim Amounts Using Bivariate Hidden Markov Models**
  Oflaz Z., Yozgatlıgil C., Kestel S. A.
  31. International Congress of Actuaries, Berlin, Germany, 3 - 08 June 2018, pp.121
- **Dependence Analysis with Normally Distributed Aggregate Claims in Stop Loss Insurance**
  MERT Ö. M. , KESTEL A. S.
  10th Internatioanal Statistics Congress (ISC2017) Ankara, Ankara, Turkey, 6 - 08 December 2017
- **Risk Measurement Using Extreme Value Theory: The Case of BIST100 Index**
  YILDIRIM B., KESTEL A. S. , KARABEY U.
  10th International Statistics Congress, Ankara, Turkey, 6 - 08 December 2017
- **Determination of Sensitivities for Mortgage Default and Prepayment Options**
  YILMAZ B., KESTEL A. S.
  8th General AMaMeF Conference, Amsterdam, Netherlands, 19 - 23 June 2017, pp.58
- **The Effect of Macro-Economic Factors on Housing Markets: US Case**
  YILMAZ B., KESTEL A. S.
  IRSYSC 2017 – 3RD INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, Konya, Turkey, 24 - 26 May 2017, pp.228
- **The Influence of Longevity Risk on Pension Funds: Turkish Case**
  YILDIRIM B., KESTEL A. S.
  3RD INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, Konya, Turkey, 24 - 26 May 2017
- **An Alternative Stochastic Mortality Trend Model**
  HASGÜL E., KESTEL A. S. , YOLCU OKUR Y.
  PARTY 2017, 8 - 13 January 2017

- **Actuarial present value and variance for changing mortality and stochastic interest rates**
  Yıldırım B., Selcuk-Kestel A. S. , Coşkun-Ergökmen N. G.
  3rd International Conference on Dynamics, Games and Science, DGS 2014, Porto, Portugal, 17 - 21 February 2014, vol.195, pp.495-512
- **A Stochastic Model Approach to Determine the Pattern in House Prices**
  YILMAZ B., KESTEL A. S.
  Vienna Congress on Mathematical Finance - VCMF 2016, Viyana, Austria, 12 - 14 September 2016
- **Stochastic surplus process and constrained portfolio optimization with VaR and CVaR**
  ŞİMŞEK M., UĞUR Ö., KESTEL A. S.
  3. European Actuarial Journal Conference, Lyon, France, 4 - 08 September 2016
- **Ruin Analysis of Takaful Insurance Using Multiple Threshold Model**
  ACHLAK A., KESTEL A. S. , TANK F.
  3rd European Actuarial Association Conference, Lyon, France, 4 - 08 September 2016
- **Determination of Nonlinear Dependency on Solvency II Requirements using Copulas**
  HASGÜL E., KESTEL A. S.
  Dependence Modeling in Finance, Insurance and Environmental Science, 17 - 19 May 2016
- **STOKASTİK FAİZ ORANI VE MORTALİTE ETKİSİ ALTINDAHAYAT SİGORTASI PRİM HESAPLAMASI**
  YILDIRIM B., KESTEL A. S. , COŞKUNERGÖKMEN G.
  International 9.Statistics Congress, Antalya, Turkey, 27 October - 01 November 2015
- **FUZZY CLUSTERING FOR EARTHQUAKE INSURANCE RISK ASSESSMENT**
  BAŞER F., KESTEL A. S. , APAYDIN A.
  International 9. Statistics Congress, Antalya, Turkey, 27 October - 01 November 2015
- **How effective is SCR when the association is measured with Copulas**
  HASGÜL E., KESTEL A. S. , YILDIRAK Ş. K.
  International 9. Statistics Congress, Antalya, Turkey, 27 October - 01 November 2015
- **Risk Assessment and Pricing of Natural Hazards Earthquake Case**
  KESTEL A. S.
  Second International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, 14 - 16 October 2015
- **Surplus Process with Perturbations of a BrownianMotion in an Insurance Porftfolio**
  ŞİMŞEK M., Ugur O., KESTEL A. S.
  55. EURO Working Group Commodities and Financial Modelling Conference, Ankara, Turkey, 14 - 16 May 2015
- **Wavelet Multivariate Adaptive Regression Splinesand Their Application to the UK Electricity Market**
  YILDIRIM M. H. , BAYRAK Ö. T. , KESTEL A. S. , G WİLHELM W.
  55. EURO Working Group Commodities and Financial Modelling Conference, Ankara, Turkey, 14 - 16 May 2015
- **Flexibility Modelling of Natural Gas Contracts**
  KESTEL A. S. , YAZICI C. F. , KALAYCI E.
  55.EURO Working Group "Commodities and Financial Modelling Conference, Ankara, Turkey, 14 - 16 May 2015
- **A Risk Assessment and Measurement Approach onthe Procurement Analysis of Copper Markets**
  KARA G., LİNDEMAYR E., KESTEL A. S.
  55. EURO Working Group Commodities and Financial Modelling Conference, Ankara, Turkey, 14 - 16 May 2015
- **System Reliability Investigation of Draglines Using Fault Tree Analysis**
  DEMİREL N., Gölbaşı O., KESTEL A. S. , DÜZGÜN H. Ş.
  Mine Planning and Equipment Selection, Delhi, India, 29 September - 01 October 2014, pp.1151-1158
- **Assessment of Survival Models in Constructing Morbidity Tables**
  KESTEL A. S. , AKBULUT D.
  Symposium on Biomathematics and Ecology: Education and Research, 15 - 16 October 2010
- **Risk Assessment of a micro insurance portfolio**
  KASIRGA Y., KESTEL A. S.
  24th Mini Euro Conference EurOPT, 1 - 03 January 2010
- **An international comparison of Turkish coal mining industry safety performance**

SARI M., Karpuz C., SELCUK A.
10th International Symposium on Mine Planning and Equipment Selection (MPES), NEW DELHI, India, 19 - 21 November 2001, pp.917-920

- **Implementation of Risk Assessment techniques to Coal Mines in Turkey**
  KESTEL A. S. , BOZDAĞ T., DÜZGÜN H. Ş. , SARI M., KARPUZ C.
  53rd Session of ISI, Bulletin of International Statistical Institute, Seul, South Korea, 14 - 16 January 2001
- **Split Plot Designs under Nonnormality**
  ŞENOĞLU B., KESTEL A. S.
  53rd Session of ISI, Bulletin of International Statistical Institute, Seul, South Korea, 14 - 16 January 2001
- **Analysis of Tuncbilek underground coal mine accidents based on risk analysis techniques**
  SELCUK A., Karpuz C., DUZGUN H., SARI M.
  6th International Conference on Environmental Issues and Management of Waste in Energy and Mineral Production (SWEMP 2000), Calgary, Canada, 30 May - 02 June 2000, pp.237-243
- **Statistical Analysis of Underground Accidents in Tunçbilek Türkiye Based on Risk Management Techniques**
  SARI M., Karpuz C., KESTEL A. S. , DÜZGÜN H. S.
  Sixth International Conference on Environmental Issues and Management of Waste Energy and Mineral Production (SWEMP),, 2 - 04 January 2000
- **Robust time series: Some engineering applications**
  Tiku M., Selcuk A.
  International Conference on Industrial Technology (IEEE ICIT 2000), GOA, India, 19 - 22 January 2000, pp.466-473
- **EARTHQUAKE RELIABILITY OF LIFELINE NETWORKS**
  YUCEMEN M., SELCUK A.
  5th US National Conference on Earthquake Engineering - Earthquake Awareness and Mitigation Across the Nation, Illinois, United States Of America, 10 - 14 July 1994, pp.809-818

Supported Projects

Kestel S. A. , Project Supported by Other Private Institutions, Sahibinden.com: Assessment of Automobile pricing in Turkey using ML Techniques, 2019 - 2019

Kestel S. A. , Project Supported by Other Private Institutions, Sahibinden.com: Assessment of Housing Index using ML, 2019 - 2019

Kestel S. A. , Project Supported by Other Private Institutions, Sahibinden.com -Konut fiyat tahminine ilişkin analizler, 2019 - 2019

Kestel S. A. , Association (NGO), Hava Kuvvetleri Komutanlığı Yardımlaşma Derneği Aktüeryal Değerlendirme Raporu, 2019 - 2019

KESTEL S. A. , AKSU M., KOÇ O., UĞUR Ö., Project Supported by Higher Education Institutions, Bankacılık sektöründe gözetimli öğrenme yaklaşımları kullanılarak kredi riskinin belirlenmesi, 2018 - 2019

KESTEL S. A. , YILDIRIM B., AKARSU G., MERT Ö. M. , HASGÜL E., ŞİMŞEK M., Project Supported by Higher Education Institutions, Hayat ve Hayat Dışı Sigorta Şirketlerinde Mali Yeterlilik Kriterlerine ait Faktörlerin Modellenmesi, 2017 - 2019

KESTEL S. A. , Project Supported by Other Official Institutions, İSTATISTIKSEL VERI TABANLARINDA GİZLİLİĞİN KORUNMASI, 2016 - 2018

YOZGATLIGİL C., EVKAYA Ö. O. , KESTEL S. A. , Project Supported by Higher Education Institutions, Copula Yöntemi ile Karşılaştırmalı Kuraklık Analizi ve Kuraklık Tahminleri: Konya ili örneği, 2017 - 2017

KESTEL S. A. , BAYRAM A., YILMAZ B., Project Supported by Higher Education Institutions, Ekonomik ve Sosyal Göstergelerin Gayrimenkul Piyasaları Üzerindeki Etkisinin Parametrik ve Parametrik Olmayan Yöntemler ile Tahmini, 2017 - 2017

KESTEL S. A. , Project Supported by Other Private Institutions, Hava Kuvvetleri Komutanlığı Yardımlaşma Derneği Fonları Aktüeryal Değerlendirmesi, 2016 - 2016

KESTEL S. A. , YOZGATLIGİL C., HASGÜL E., EVKAYA Ö. O. , Project Supported by Higher Education Institutions, Tarımsal Ürün ve Aktüeryal Karşılıklarının Vine Copulalar aracılığı ile Modellemesi, 2016 - 2016
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KESTEL S. A. , BATMAZ İ., YOLCU OKUR Y., Ünlü K. D. , Project Supported by Higher Education Institutions, Türkiye'de Gayrimenkul Piyasaları ve Diğer Göstergelerin Finans Sektörüne olan Etkisinin Değerlendirilmesi, 2014 - 2014
KESTEL S. A. , DANIŞOĞLU S., Yılmaz S., GÜNER Z. N. , Project Supported by Higher Education Institutions, Emeklilik Sistemini belirleyen bilesenlere ait degiskenligin aktüeryal hesaplamalara olan etkisinin arastirilmasi, 2013 - 2013
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Demirel N., Kestel S. A. , TUBITAK Project, Yürüyen Çekme-Kepçeli Yerkazarların Optimum Verimliliği ve Bakım-Onarımı İçin Sistem Güvenilirliği Modeli Geliştirilmesi, 2011 - 2013
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KESTEL S. A. , Project Supported by Higher Education Institutions, Uzun Ömür Riskinin Türkiye Emeklilik Fonları Üzerine Olan Etkisinin Değerlendirilmesi., 2011 - 2012
KESTEL S. A. , Project Supported by Higher Education Institutions, Türkiye İçin Bireysel Risk Bazına İndirgenmiş Kollektif Hasar Modellemeleri, 2010 - 2010
KESTEL S. A. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Bir Maden İşletmesinin İş Güvenliği Risk Yönetimi ve Sigortalama Teknolojilerinin Geliştirilmesi, 1999 - 2001
KESTEL S. A. , World Bank Supported Project, Turkish Earthquake and Flood Emergency Recovery TEFER Improvement of Natural Hazard Insurance and Disaster Funding Project, 1999 - 2000
KESTEL S. A. , TUBITAK Project, Mekanda Yayılı Enterkonekte Sistemlerin Deprem Güvenirliği, 1995 - 1996

Activities in Scientific Journals

European Actuaries Journal, Committee Member, 2013 - Continues

Memberships / Tasks in Scientific Organizations

Türk İstatistik Derneği, Vice President, 2010 - Continues
International Statistical Institute, Member, 1995 - Continues

Scientific Refereeing

JOURNAL OF APPLIED ECONOMICS, Journal Indexed in SSCI, September 2019
COMPUTATIONAL STATISTICS, Journal Indexed in SCI-E, August 2019
Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics, Journal Indexed in ESCI, June 2019
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, Journal Indexed in SCI-E, May 2019
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, May 2019
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, Journal Indexed in SCI-E, March 2019

Journal Of Industrial And Management Optimization, SCI Journal, October 2018
Sosyal Güvence Dergi, National Scientific Refreed Journal, May 2018
Journal of Computational and Applied Mathematics, SCI Journal, March 2018
Acta Geophysica, SCI Journal, February 2018
Sigma Journal of Engineering and Natural Sciences, Other Indexed Journal, January 2018
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, April 2015

Scientific Consultations

TARSİM Bilim Kurulu, Scientific Consultancy, Orta Doğu Teknik Üniversitesi, Turkey, 2017 - Continues
TC. Hazine ve Maliye Bakanlığı, Scientific Consultancy, Orta Doğu Teknik Üniversitesi, Turkey, 2013 - Continues

Tasks In Event Organizations

Kestel S. A. , Matkap T., Fourth National Actuarial and Insurance Congress, Scientific Congress, Ankara, Turkey, Haziran 2019

Invited Congress and Symposium Activities

23.International Congress on Insurance: Mathematics and Economics- IME2019, Working Group, Munich, Germany, 2019
7th Multinational Energy and Value Conference, Working Group, Ankara, Turkey, 2019
IIF 2019 – CEE & SEE Regional Actuarial Insurance Conference , Inclusive Insurance, Invited Speaker, Skopje, Macedonia, 2019
4th European Actuarial Journal Congress, Attendee, Leuven, Belgium, 2018
31. International Congress of Actuaries, Attendee, Berlin, Germany, 2018

Citations

Total Citations (WOS):268
h-index (WOS):7

Invited Talks

Optimized stop loss reinsurance under certain loss distributions, Seminar, Universitaet Kaiserslautern, Germany, January 2019

Awards

Kestel S. A. , 2017 Yılı Akademik Performans Ödülü , Orta Doğu Teknik Üniversitesi, August 2018
Kestel S. A. , 2015 Yılı Akademik Performans Ödülü, Orta Doğu Teknik Üniverstesi, July 2016
Kestel S. A. , Temoçin B. Z. , Korn R., Constant Proportion Portfolio Insurance in Defined-Contribution Pension Plan Management, Orta Doğu Teknik Üniversitesi, March 2016
Kestel S. A. , 2012 Yılı Akademik Başarı Ödülü, Orta Doğu Teknik Üniversitesi, July 2013