

Asst. Prof. ÖVGÜCAN GÖNENÇ ERDEMİR

Personal Information

Office Phone: [+90 312 297 6160](tel:+903122976160) Extension: 131

Email: ovgucan@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/ovgucan>

International Researcher IDs

ORCID: 0000-0002-4725-3588

Yoksis Researcher ID: 193655

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Aktüerya Bilimleri A.B.D, Turkey 2014 - 2020

Postgraduate, Hacettepe University, Fen Bilimleri , Aktüerya Bilimleri , Turkey 2011 - 2014

Undergraduate, Hacettepe University, Fen Fakültesi, Aktüerya Bilimleri , Turkey 2007 - 2011

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Modified Pseudo-Copula Regression Model, Hacettepe University, Fen Fakültesi, Aktüerya Bilimleri Bölümü, 2020

Postgraduate, GENELLEŞTİRİLMİŞ DOĞRUSAL MODELLER İÇİN SINIRLI DALGALANMALI KREDİBİLİTE YAKLAŞIMI, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Aktüerya Bilimleri (YI), 2014

Research Areas

Social Sciences and Humanities, Actuarial Studies, Statistics, Statistical Analysis and Applications, Natural Sciences

Courses

Financial Time Series, Undergraduate, 2022 - 2023

Actuarial Mathematics 2, Undergraduate, 2022 - 2023

Actuarial Mathematics 1, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

1. **An Adjusted Iterative Algorithmic Approach for the Maximum Likelihood Estimation of the Pseudo-Copula Regression: P-MBP**
Erdemir Ö. G.

SOFT COMPUTING, pp.1-15, 2023 (SCI-Expanded)

- II. **Evaluation of systemic immune-inflammation index efficacy in predicting complicated appendicitis in pediatric emergency department**

Tekeli A., Çalışkan M. B., Bahadır G. B., Erdemir Ö. G.

ULUSAL TRAVMA VE ACIL CERRAHI DERGISI, vol.29, no.5, pp.566-573, 2023 (SCI-Expanded)

- III. **A modified pseudo-copula regression model for risk groups with various dependency levels**

Erdemir Ö. G., Sucu M.

JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, pp.1-22, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Comparative Perspective on Multivariate Modeling of Insurance Compensation Payments with Regression-Based and Copula-Based Models**

Erdemir Ö. G.

Ekoist journal of econometrics and statistics (Online), vol.39, pp.161-171, 2023 (Peer-Reviewed Journal)

- II. **Farklı saklama koşulları ve bekletme sürelerinin ışıkla uyarılabilen fosfor (PSP) plak görüntülerindeki ortalama gri değere (OGD) etkis**

Pamukçu U., Tetik H., Peker İ., Erdemir Ö. G., Zafersoy Akarşlan Z.

Acta Odontologica Turcica, vol.40, no.3, pp.61-67, 2023 (Peer-Reviewed Journal)

- III. **Estimation of Premium of Fire and Natural Disaster Insurance with Box-Jenkins Models and Artificial Neural Networks**

Dilmen B., Arıkel F., Gencer Ş., Kayır Ş., Erdemir Ö. G.

İstatistikçiler Dergisi: İstatistik ve Aktüerya, vol.15, no.2, pp.60-71, 2022 (Peer-Reviewed Journal)

- IV. **A Comparative Study on Performance of Insurance Companies with Grey Relational Analysis and Analytic Hierarchy Process**

Erdemir Ö. G., Kırkağaç M.

Alanya Akademik Bakış, vol.6, no.3, pp.2627-2645, 2022 (Peer-Reviewed Journal)

- V. **The Incorporation of Generalized Linear Models into Bivariate Gaussian Copula and An Application**

Erdemir Ö. G., Sucu M.

Journal of Statistics & Applied Science , vol.5, pp.1-9, 2022 (Peer-Reviewed Journal)

- VI. **Eliptik Sözde-Kopulalar ile Esnek Bağımlılık Modellemesi**

Erdemir Ö. G., Sucu M.

İstatistikçiler Dergisi: İstatistik ve Aktüerya, vol.13, no.2, pp.61-77, 2020 (Peer-Reviewed Journal)

- VII. **On Comparison of Models for Count Data with Excessive Zeros in Non-Life Insurance**

ERDEMİR Ö. G., KARADAĞ ATAŞ Ö.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.38, no.3, pp.1543-1553, 2020 (ESCI)

- VIII. **A Comparative Study on Modeling of Dependence Between Claim Severity and Frequency with Archimedean Copulas**

Erdemir Ö. G., Sucu M.

Journal of Statisticians: Statistics and Actuarial Sciences, vol.13, no.1, pp.18-29, 2020 (Peer-Reviewed Journal)

- IX. **Selection of Financial Performance Determinants for Non-Life Insurance Companies Using Panel Data Analysis**

Erdemir Ö. G.

The Journal of Accounting and Finance, vol.82, pp.251-264, 2019 (Peer-Reviewed Journal)

- X. **The Use of the Multivariate Statistical Methods in the Performance Analysis of Non-Life Insurance Companies**

Erdemir Ö. G., Tatlıdil H. H.

Journal of Financial Researches and Studies, vol.18, no.10, pp.56-69, 2018 (Peer-Reviewed Journal)

- XI. **The Analysis of the Comprehensive Insurance Demand for Turkey Using Utility Theory and System Simulation**

KIRKAĞAÇ M., ERDEMİR Ö. G., GENÇTÜRK Y.

Anadolu University Journal of Science and Technology-A Applied Sciences and Engineering, vol.18, no.1, pp.115-121, 2017 (Peer-Reviewed Journal)

XII. Data Reduction in Data Envelopment Analysis: A Research on Efficiency of Insurance Companies

ERDEMİR Ö. G., TATLIDİL H. H.

Journal of Current Research on Business and Economics (JoCRBE), vol.7, no.1, pp.65-78, 2017 (Peer-Reviewed Journal)

XIII. Genelleştirilmiş Doğrusal Model Bileşenlerinin Kredibilite Üzerindeki Etkilerinin Araştırılması

ERDEMİR Ö. G., SUCU M.

İstatistikçiler Dergisi: İstatistik ve Aktüerya, vol.9, no.1, pp.37-46, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. Emeklilik Fonlama ve Değerlendirmesine Problem Çözümü Yaklaşımı

GENÇTÜRK Y., HAMURKAROĞLU C., KIRKAĞAÇ M., ERDEMİR Ö. G., KARAGÜL B. Z.

Nobel, Ankara, 2017

Refereed Congress / Symposium Publications in Proceedings

I. Spatio-Temporal Modelling of Insurance Claim Frequency and Severity

Hajipour R. F., Erdemir Ö. G., Büyükyazıcı M.

7th International Researchers - Statisticians and Young Statisticians Congress (7. IRSYSC), İstanbul, Turkey, 2 - 05 November 2023, pp.1

II. Multivariate Modeling of Insurance Compensation Payments with Regression Model and Copula via Machine Learning Techniques: A Comparison Study

Erdemir Ö. G.

IV. International Applied Statistics Conference (UYIK – 2023), Sarajevo, Bosnia And Herzegovina, 26 - 29 September 2023, pp.1

III. Some Modifications on Elliptical Pseudo-Copulas and A Flexible Dependency Modelling Approach

Erdemir Ö. G., Sucu M.

6th International Researchers - Statisticians and Young Statisticians Congress, Antalya, Turkey, 3 - 06 November 2022, pp.1-5

IV. The Combination of Generalized Linear Model and Copula: An Application Study in R

Erdemir Ö. G., Sucu M.

, XX. International Symposium on Econometrics, Operational Research and Statistics 2020, Ankara, Turkey, 12 - 14 February 2020, pp.1

V. Performance Evaluation of Non-Life Insurance Companies via Grey Relational Analyse and Analytic Hierarchy Process

Kırkağaç M., Erdemir Ö. G.

11. International Statistics Congress, Muğla, Turkey, 4 - 08 October 2019, pp.1-20

VI. Pricing of Non-Life Insurance Under Independency Assumption: An Example of Comprehensive Insurance Pricing

Erdemir Ö. G., Sucu M.

19th International Symposium on Economics, Operations Research and Statistics, Antalya, Turkey, 17 - 20 October 2018, pp.1-20

VII. A Comparative Study on Modelling Claim Frequency in the Presence of Zero-Inflation

Erdemir Ö. G., Karadağ Ataş Ö.

4th International Researchers-Statisticians and Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018, pp.1-20

- VIII. **Sigorta Şirketlerinin Finansal Performans Belirleyicilerinin Panel Veri Analizi ile Araştırılması**
ERDEMİR Ö. G.
3.Ulusal Sigorta ve Aktüerya Kongresi, Karabük, Turkey, 28 - 29 September 2017
- IX. **A Bonus-Malus System Design Using Generalized Linear Model**
ERDEMİR Ö. G., SUCU M.
3rd International Researchers - Statisticians and Young Statisticians Congress, Konya, Turkey, 25 - 26 May 2017
- X. **Principal Component Analysis as a Method of Measuring the Performance of Turkish Nonlife Insurance Companies**
ERDEMİR Ö. G., TATLIDİL H. H.
3rd European Actuarial Journal Conference & Summer School of the French Institut des (EAJ 2016 & IA Summer School), Lyon, France, 5 - 08 September 2016
- XI. **Investigation of the Demand for Motor Own Damage Insurance Using Utility Function A Simulation Study**
KIRKAĞAÇ M., ERDEMİR Ö. G., GENÇTÜRK Y.
2nd Researchers - Statisticians and Young Statisticians Congress, 4 - 08 May 2016
- XII. **Integration of Data Envelopment Analysis and Principal Component Analysis in the Efficiency Research of Turkish Insurance Companies**
ERDEMİR Ö. G., TATLIDİL H. H.
2nd Researchers - Statisticians and Young Statisticians Congress, 4 - 08 May 2016
- XIII. **Credibility Analysis of Risk Classes by Generalized Linear Model**
ERDEMİR Ö. G., SUCU M.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 23 - 29 September 2015, vol.1738
- XIV. **Genelleştirilmiş Doğrusal Modellerde Model Değerlendirmesi ve Seçimi Kasko Sigortası Örneği**
ERDEMİR Ö. G., SUCU M.
9. Uluslararası İstatistik Kongresi, Antalya, Turkey, 28 October - 01 November 2015
- XV. **Mekansal Etkinin Genelleştirilmiş Doğrusal Karma Model ile Analizi**
ERDEMİR Ö. G.
2.Ulusal Sigorta ve Aktüerya Kongresi, 17-18 Eylül 2015, Hacettepe Üniversitesi, Ankara., Ankara, Turkey, 17 - 18 September 2015
- XVI. **Optimization Studies in Non Life Insurance**
ERDEMİR Ö. G., SUCU M.
Operations Research and Statistics, 7-12 May 2015, Trakya University, Edirne., Edirne, Turkey, 7 - 12 May 2015
- XVII. **Jewell s Hierarchical Credibility Model and An Implementation in R Program**
ERDEMİR Ö. G., SUCU M.
9th International Statistics Day Symposium, ISDD (IGS), 10-14 May 2014, Side, Antalya, 10 - 14 May 2014
- XVIII. **Markov Süreçleri Yaklaşımı ile Trafik Sigortalarında Hasarsızlık İndirim Sistemi İngiltere Örneği No Claim Discount NCD**
ERDEMİR Ö. G., SUCU M.
1. Genç İstatistikçiler Sempozyumu, 10-11 Eylül 2013, Hacettepe İstatistik Bölümü, Ankara., Turkey, 10 - 12 September 2013

Supported Projects

- YILDIRAK Ş. K., TATLIDİL H. H., ERDEMİR Ö. G., Project Supported by Higher Education Institutions, Hayat-Dışı Sigorta Şirketlerinin Performans Ölçüm Yöntemi Olarak Temel Bileşen Analizi, 2016 - 2017
- ERDEMİR Ö. G., Project Supported by Higher Education Institutions, Genelleştirilmiş Doğrusal Model ile Risk Sınıflarının Güvenilirlik Analizi, 2015 - 2016
- YILDIRAK Ş. K., KARATAŞ R., ERDEMİR Ö. G., KIRKAĞAÇ M., ŞENTÜRK ACAR A., NEVRUZ E., BULUT KARAGEYİK B., ARIK A., KARAGÜL B. Z., ŞİMŞEK G., et al., Project Supported by Higher Education Institutions, II. Ulusal Sigorta ve Aktüerya

Kongresi, 2015 - 2016

YILDIRAK Ő. K., BULUT KARAGEYİK B., ERDEMİR Ö. G., ŐAHİN Ő., KARABEY U., NEVRUZ E., Project Supported by Higher Education Institutions, Tarım Sigortaları ve Tarımda Doğal Afet Yönetiminin Etkinliđinin Deđerlendirilmesi, 2015 - 2016

Metrics

Publication: 35