



FATİH TANK

PROF.

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International Researcher IDs

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Publons / Web Of Science ResearcherID: W-4877-2017

ScopusID: 12041740200

Yoksis Researcher ID: 19415



Learning Knowledge

Doctorate
1997 - 2002

Ankara University, Fen Bilimleri Enstitüsü, Turkey

Postgraduate
1994 - 1997

Ankara University, Fen Bilimleri Enstitüsü, Turkey

Undergraduate
1990 - 1994

Ankara University, Fen Fakültesi, İstatistik Bölümü, Turkey

Dissertations

Doctorate, Sigortacılıkta bağımlı riskler: İki değişkenli durum için yaklaşımlar, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2002

Doctorate, Dependent risks in insurance: Approaches for bivariate cases, Ankara University, Fen Bilimleri Enstitüsü, 2002

Postgraduate, Stokastik üstünlük kuramı ve aktüeryal uygulamaları üzerine bir çalışma, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), 1997

Postgraduate, A study on the stochastic dominance theory and actuarial applications, Ankara University, Fen Bilimleri Enstitüsü, 1997

Academic Titles / Tasks

Professor
2016 - Continues

Ankara University, Uygulamalı Bilimler Fakültesi, Aktüerya Bilimleri Bölümü

Associate Professor
2010 - 2016

Ankara University, Fen Fakültesi, İstatistik Bölümü

Assistant Professor
2010 - 2010

Ankara University, Fen Fakültesi, İstatistik Bölümü

Assistant Professor
2003 - 2010

Kirikkale University, Faculty Of Arts And Sciences, Department Of Statistics

Supported Projects

1. Tank F., ELHAN A. H., AZAP A., Project Supported by Higher Education Institutions, COVID2019 Verileri ile Günlük Tahminlerin İncelenmesi, 2020 - 2020
2. Tank F., Project Supported by Other Private Institutions, Türkiye Morbidite Tablolarının Hazırlanması, 2009 - 2010

Scholarships

2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2013 - 2014

2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2011 - 2011

Boston Üniversitesi - Lisansüstü Ders, World Bank, 1999 - 1999

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Ankara Üniversitesi, March, 2023

Associate Professor Exam, Associate Professor Exam, Ankara Üniversitesi, March, 2023

Associate Professor Exam, Associate Professor Exam, Ankara University, April, 2017

Associate Professor Exam, Associate Professor Exam, Ankara University, April, 2017

Associate Professor Exam, Associate Professor Exam, Ankara University, December, 2016

Associate Professor Exam, Associate Professor Exam, Ankara University, April, 2016

Associate Professor Exam, Associate Professor Exam, Ankara University, April, 2016

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Minimum energy representative points**
Elsawah A. M., Wang Y., TANK F.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.438, 2024 (SCI-Expanded)
2. **A sequential designing-modeling technique when the input factors are not equally important**
Elsawah A. M., Wang Y., Chen Z., Tank F.
COMPUTATIONAL AND APPLIED MATHEMATICS, vol.43, no.1, pp.1-21, 2024 (SCI-Expanded)
3. **Special issue: Computational methods in system reliability**
TANK F., Eryilmaz S.
Journal of Computational and Applied Mathematics, vol.435, 2024 (SCI-Expanded)
4. **Subgroup identification of targeted therapy effects on biomarker for time to event data**
Vishwakarma G. K., Bhattacharjee A., Tank F., Pashchenko A. F.
CANCER BIOMARKERS, vol.38, no.4, pp.413-424, 2023 (SCI-Expanded)
5. **Foreword**
Özdemir N., Yaman R., TANK F.
Journal of Computational and Applied Mathematics, vol.430, 2023 (SCI-Expanded)
6. **Optimal age replacement policy for discrete time parallel systems**

- ERYILMAZ S., TANK F.
TOP, vol.31, no.3, pp.475-490, 2023 (SCI-Expanded)
7. **Computing minimal signature of coherent systems through matrix-geometric distributions**
Eryilmaz S., Tank F.
JOURNAL OF APPLIED PROBABILITY, vol.58, no.3, pp.621-636, 2021 (SCI-Expanded)
 8. **Compound sum distributions with dependence**
Nadarajah S., Kwong H. S., TANK F.
STATISTICS, vol.55, no.2, pp.409-425, 2021 (SCI-Expanded)
 9. **On bivariate compound sums**
Tank F., Eryilmaz S.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.365, 2020 (SCI-Expanded)
 10. **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, no.9, pp.2552-2565, 2019 (SCI-Expanded)
 11. **Using fuzzy logic to interpret dependent risks**
Kemaloglu S., Shapiro A. F., TANK F., APAYDIN A.
Insurance: Mathematics and Economics, vol.79, pp.101-106, 2018 (SCI-Expanded)
 12. **The distributions of sum, minima and maxima of generalized geometric random variables**
TANK F., Eryilmaz S.
STATISTICAL PAPERS, vol.56, no.4, pp.1191-1203, 2015 (SCI-Expanded)
 13. **Some results on the extreme distributions of surplus process with nonhomogeneous claim occurrences**
TANK F., Tuncel A.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.44, no.2, pp.475-484, 2015 (SCI-Expanded)
 14. **Computational results on the compound binomial risk model with nonhomogeneous claim occurrences**
Tuncel A., TANK F.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.263, pp.69-77, 2014 (SCI-Expanded)
 15. **On the interplay between distortion, mean value and Haezendonck-Goovaerts risk measures**
Goovaerts M., Linders D., Van Weert K., TANK F.
INSURANCE MATHEMATICS & ECONOMICS, vol.51, no.1, pp.10-18, 2012 (SCI-Expanded)
 16. **On reliability analysis of a two-dependent-unit series system with a standby unit**
Eryilmaz S., TANK F.
APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.15, pp.7792-7797, 2012 (SCI-Expanded)
 17. **A study on fuzzy robust regression and its application to insurance**
Kula K. Ş., TANK F., Dalkiliç T. E.
Mathematical and Computational Applications, vol.17, no.3, pp.223-234, 2012 (SCI-Expanded)
 18. **Modeling of claim exceedances over random thresholds for related insurance portfolios**
Eryilmaz S., Gebizlioglu O. L., TANK F.
INSURANCE MATHEMATICS & ECONOMICS, vol.49, no.3, pp.496-500, 2011 (SCI-Expanded)
 19. **Neural networks approach for determining total claim amounts in insurance**
Dalkilic T. E., Tank F., Kula K. S.
INSURANCE MATHEMATICS & ECONOMICS, vol.45, no.2, pp.236-241, 2009 (SCI-Expanded)
 20. **Determination of dependency parameter in joint distribution of dependent risks by fuzzy approach**
Tank F., Gebizlioglu O., Apaydin A.
INSURANCE MATHEMATICS & ECONOMICS, vol.38, no.1, pp.189-194, 2006 (SCI-Expanded)

Articles Published in Other Journals

1. **Yarı-Parametrik Çıkarımları Kullanılarak Rekabetçi Risk Modellemesi: Meme-CA Tanılı Vakalarda Mortaliteye Sebep Risklerin Belirlenmesinde Retrospektif bir Çalışma**
POTAS KAYA N., TANK F.
Türkiye Klinikleri Biyoistatistik Dergisi, vol.13, no.2, pp.214-224, 2021 (Peer-Reviewed Journal)
2. **NUMERICAL CHARACTERISTICS OF PARETO DISTRIBUTION UNDER UNCERTAINTY**
Erbay Dalkılıç T., Kesemen T., Tank F.
İstatistik. Türk İstatistik Derneği Dergisi, vol.6, no.2, pp.66-72, 2013 (Peer-Reviewed Journal)
3. **Sarmanov Distribution Class for Dependent Risks and It s Application**
Tank F., Gebizlioğlu Ö. L.
Belgian Actuarial Bulletin, vol.4, no.1, pp.50-52, 2004 (Peer-Reviewed Journal)
4. **ORDERING OF CLAIM SIZE RISKS AND ACTUARIAL IMPLICATIONS**
Gebizlioğlu Ö. L., Tank F.
İstatistik. Türk İstatistik Derneği Dergisi, vol.5, no.1, pp.7-13, 2002 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **Ranking of Turkish Universities Based on Academic Performance by Using Fuzzy c-means Clustering Algorithm**
Apaydın A., Tank F., Başer F.
11th International Statistics Congress, Muğla, Turkey, 4 - 08 October 2019
2. **Non-Ruin Probabilities with Phase-Type Claims**
TUNÇEL A., TANK F.
3rd International Conference on Applied Economics and Finance, Girne, Cyprus (Kktc), 6 - 08 December 2017, pp.33
3. **Yaşam Sürelerinin Aktüeryal Analizlerde Kullanımı**
TANK F., TUNÇEL A., Matkap T.
3rd International Conference on Applied Economics and Finance, Girne, Cyprus (Kktc), 6 - 08 December 2017, pp.149
4. **Ruin analysis of takaful insurance using multiple threshold model**
ARCHLUK A., KESTEL A. S., TANK F.
European Actuarial Jounal Conference 2016, Lyon, France, 5 - 08 September 2016
5. **Survival Probabilities for Compound Binomial Risk Model with Discrete Phase Type Claims**
TUNÇEL A., TANK F.
20th International Congress on InsuranceMathematics and Economics (IME 2016), 24 - 27 July 2016
6. **Assessment of an insurance problem as a multi objective optimization problem**
APAYDIN A., TANK F., TÜRKŞEN Ö.
15th International Congress on Insurance: Mathematics and Economics-IME, 14 - 17 June 2011
7. **Pareto Distribution and Numerical Characteristics of This Distribution under Uncertainty**
ERBAY DALKILIÇ T., KESEMEN T., TANK F.
13. International Congress on Insurance: Mathematics and Economics, Turkey, 01 May 2009, pp.88
8. **A New Neural Networks Algorithm and Its Application in Insurance**
ERBAY DALKILIÇ T., TANK F., ŞANLI KULA K.
13. International Congress on Insurance: Mathematics and Economics, Turkey, 01 May 2009, pp.59
9. **An Application of a New Fuzzy Robust Regression Algorithm to Actuarial Science**
ŞANLI KULA K., TANK F., ERBAY DALKILIÇ T.
13. International Congress on Insurance: Mathematics and Economics, Turkey, 01 May 2009, pp.29
10. **The Effects of Temperature Changes to the Anesthetic Gas Concentration**
Sezdi M., Dogruyol F., Akan A., Tank F.

14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.461-462

11. **Anesthetic Gas Concentration Changes Related to the Temperature and Humidity in High and Low Flow Anesthesia**
Sezdi M., Akan A., Tank F.
Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, Minnesota, United States Of America, 3 - 06 September 2009, pp.877-880
12. **On the Selection of Copulas for the Modelling of Dependent Risks**
KIZILOK KARA E., TANK F., GEBİZLİOĞLU Ö. L., YAĞCI B., AÇIK KEMALOĞLU S.
12th International Congress on Insurance: Mathematics Economics, 16 - 18 July 2008
13. **A Study on Fuzzy Portfolio Selection in Insurance**
TANK F.
Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus, Turkey, 01 May 2008, pp.40
14. **Fuzzy Programming in Risk Analysis**
APAYDIN A., EROĞLU İNAN G., TANK F.
International Actuarial Meeting on Risk Measures and Solvency Proceedings, Turkey, 01 May 2007, pp.869
15. **A Study on Joint Distribution of Fuzzy Dependent Risks**
TANK F., APAYDIN A., GEBİZLİOĞLU Ö. L.
International Actuarial Meeting on Risk Measures and Solvency Proceedings, Turkey, 01 May 2007, pp.872
16. **On Optimal Risk Decisions as a Characterization Problem**
GEBİZLİOĞLU Ö. L., TANK F.
Ordered Statistical Data: Approximations, Bounds and Characterizations, Turkey, 01 May 2005, pp.869
17. **On Dependent Risks and Their Distribution**
TANK F., GEBİZLİOĞLU Ö. L.
International Congress on Characterizations Modelling and Applications, Turkey, 01 May 2001, pp.113-116

Academic and Administrative Experience

2016 - 2021	Fakülte Yönetim Kurulu Üyesi	Ankara University, Uygulamalı Bilimler Fakültesi
2010 - 2016	Head of Department	Ankara University, Fen Fakültesi, İstatistik Bölümü
2003 - 2010	Deputy Head of Department	Kirikkale University, Faculty Of Arts And Sciences, Department Of Statistics
2003 - 2010	Head of Department	Kirikkale University, Faculty Of Arts And Sciences, Department Of Statistics

Courses

- 9700547 RISK MANAGEMENT AND INSURANCE, Postgraduate, 2018 - 2019
SAB208 Sigorta İstatistiği, Undergraduate, 2018 - 2019
0116604 Simülasyon, Undergraduate, 2018 - 2019
SAB205 Demografi, Undergraduate, 2018 - 2019
0116701 Emeklilik Matematiği, Undergraduate, 2018 - 2019
SAB103 TEMEL BİLGİSAYAR KULLANIMI, Undergraduate, 2018 - 2019, 2017 - 2018
SAB203 Finansal Matematik, Undergraduate, 2018 - 2019
SAB204 Hayat Sigortaları Matematiği, Undergraduate, 2018 - 2019
0116805 Aktüerya Uygulamaları, Undergraduate, 2018 - 2019

0116804 Reasürans, Undergraduate, 2018 - 2019
SAB211 Veri Tabanı ve Yönetimi, Undergraduate, 2018 - 2019
SAB104 Bilgisayar Programlama, Undergraduate, 2018 - 2019, 2017 - 2018
0116305 Demografi, Undergraduate, 2018 - 2019
SAB101 Olasılık, Undergraduate, 2017 - 2018
SAB102 İstatistik, Undergraduate, 2017 - 2018
SAB106 Temel Sigortacılık, Undergraduate, 2017 - 2018
9700584 ADVANCED ACTUARIAL MATHEMATICS, Postgraduate, 2016 - 2017, 2015 - 2016
İST206 Bilgisayar Programlama IV, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
810524 RİSK TEORİSİ VE METODLARI, Postgraduate, 2015 - 2016, 2014 - 2015
810525 AKTÜERYA ANALİZİ, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
İST205 BİLGİSAYAR PROGRAMLAMA III, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
İST206 Bilgisayar Programlama IV (2.Ögr.), Undergraduate, 2015 - 2016
İST423 RİSK YÖNETİMİ, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012

Advising Theses

Tank F., A study on IBNR calculation for car in insurance, Postgraduate, S.DURUSOY(Student), 2019
Tank F., Evaluation of the variables of social vulnerability index in natural disasters by using principal component analysis method: Application for Turkey on the basis of 81 provinces, Postgraduate, S.CEMİL(Student), 2018
TANK F., The comparison of risk measures on claim distributions: Turkish motor insurance case, Postgraduate, C.TELKES(Student), 2018
TANK F., Discrete-time surplus process for takaful insurance with multiple threshold levels, Postgraduate, A.ACHLAK(Student), 2016
Tank F., Some statistical inference for cases with competing risks, Doctorate, N.POTAS(Student), 2015
Tank F., Discrete time risk models based on non-homogeneous claim occurrences, Doctorate, A.TUNÇEL(Student), 2013

Activities in Scientific Journals

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, First Editor, 2018 - Continues
European Actuarial Journal, Committee Member, 2012 - Continues
İSTATİSTİK JOURNAL OF THE TURKISH STATISTICAL ASSOCIATION, Editor, 2010 - Continues

Metrics

Publication: 43
Citation (WoS): 107
Citation (Scopus): 142
H-Index (WoS): 6
H-Index (Scopus): 6

Research Areas

Actuarial Studies, Statistics