

## Prof. DENİZ İNAN

### Personal Information

**Email:** denizlukuslu@marmara.edu.tr

**Web:** <https://avesis.marmara.edu.tr/denizlukuslu>

### International Researcher IDs

ScholarID: 1M5pqHoAAAAJ

ORCID: 0000-0002-0408-1309

Publons / Web Of Science ResearcherID: ABI-5496-2020

ScopusID: 36183213900

Yoksis Researcher ID: 110523

### Education Information

Doctorate, Marmara University, Faculty of Arts and Sciences, Mathematics, Turkey 2005 - 2010

Postgraduate, Marmara University, Faculty of Arts and Sciences, Mathematics, Turkey 2002 - 2005

Undergraduate, Marmara University, Faculty of Arts and Sciences, Mathematics, Turkey 1998 - 2002

### Dissertations

Doctorate, İç İlişki Durumunda Cox Oransal Hazard Modeli İçin Farklı Tahmin Edicilerin İncelenmesi, Marmara Üniversitesi, Faculty of Arts and Sciences, Mathematics, 2010

Postgraduate, Modelleme Sürecinde Weibull Dağılımının Kullanılması, Marmara Üniversitesi, Faculty of Arts and Sciences, Mathematics, 2005

### Research Areas

Statistics, Natural Sciences

### Academic Titles / Tasks

Professor, Marmara University, Faculty of Arts and Sciences, Statistics, 2021 - Continues

Associate Professor, Marmara University, Faculty of Arts and Sciences, Statistics, 2016 - 2021

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Statistics, 2013 - 2016

Research Assistant, Marmara University, Faculty of Arts and Sciences, Statistics, 2009 - 2013

Research Assistant, Marmara University, Faculty of Arts and Sciences, Mathematics, 2003 - 2009

### Published journal articles indexed by SCI, SSCI, and AHCI

- Adaptive Elastic Net Based on Modified PSO for Variable Selection in Cox Model with High-Dimensional Data: A Comprehensive Simulation Study**  
Sancar N., Onakpojeruo E. P., İNAN D., Uzun Ozsahin D.  
IEEE Access, vol.11, pp.127302-127316, 2023 (SCI-Expanded)

- II. **Type-1 fuzzy forecasting functions with elastic net regularization**  
Tak N., İNAN D.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.199, 2022 (SCI-Expanded)
- III. **Serum kisspeptin levels along reproductive period in women: is it a marker for aging?**  
EREL C. T., ÖZÇİVİT İ. B., İNAN D., Mut A., Karakus Hatipoglu B., KONUKOĞLU D.  
GYNECOLOGICAL ENDOCRINOLOGY, vol.38, pp.267-272, 2022 (SCI-Expanded)
- IV. **A new alternative estimation method for Liu-type logistic estimator via particle swarm optimization: an application to data of collapse of Turkish commercial banks during the Asian financial crisis**  
Sancar N., İnan D.  
JOURNAL OF APPLIED STATISTICS, vol.48, no.13-15, pp.2499-2514, 2021 (SCI-Expanded)
- V. **Serum kisspeptin levels correlated with anti-mullerian hormone levels in women with and without polycystic ovarian syndrome**  
Mut A., Erel C. T., İNAN D., Oner Y. O.  
GYNECOLOGICAL ENDOCRINOLOGY, vol.37, no.5, pp.462-466, 2021 (SCI-Expanded)
- VI. **Binary particle swarm optimization as a detection tool for influential subsets in linear regression**  
Deliorman G., Inan D.  
JOURNAL OF APPLIED STATISTICS, vol.48, no.13-15, pp.2441-2456, 2021 (SCI-Expanded)
- VII. **Er:YAG laser treatment of urinary incontinence after failed TOT/TVT procedures**  
EREL C., Carazo Fernandez L. D., İNAN D., Makul M.  
EUROPEAN JOURNAL OF OBSTETRICS & GYNECOLOGY AND REPRODUCTIVE BIOLOGY, vol.252, pp.399-403, 2020 (SCI-Expanded)
- VIII. **Particle swarm optimization based ridge logistic estimator**  
İNAN D., Sancar N.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.49, no.3, pp.669-683, 2020 (SCI-Expanded)
- IX. **Identification of influential observations based on binary particle swarm optimization in the cox PH model**  
Sancar N., İNAN D.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.49, no.3, pp.567-590, 2020 (SCI-Expanded)
- X. **Predictive factors for the efficacy of Er:YAG laser treatment of urinary incontinence**  
Erel C. T., İNAN D., Mut A.  
MATURITAS, vol.132, pp.1-6, 2020 (SCI-Expanded)
- XI. **A novel method as a diagnostic tool for the detection of influential observations in the Cox proportional hazards model**  
SANCAR N., İNAN D.  
Quality & Quantity, vol.52, pp.1253-1266, 2018 (SCI-Expanded)
- XII. **Particle swarm optimization based Liu-type estimator**  
İNAN D., EĞRİOĞLU E., Sarica B., AŞKIN Ö. E., TEZ M.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.46, no.22, pp.11358-11369, 2017 (SCI-Expanded)
- XIII. **Combining the Liu-type estimator and the principal component regression estimator**  
Inan D.  
STATISTICAL PAPERS, vol.56, no.1, pp.147-156, 2015 (SCI-Expanded)
- XIV. **Analysing effect of the factors on ultrasonic seam tensile properties of nonwoven fabrics by Nested Anova Design**  
KAYAR M., MISTIK S. İ., İNAN D.  
INTERNATIONAL JOURNAL OF CLOTHING SCIENCE AND TECHNOLOGY, vol.27, no.6, pp.803-817, 2015 (SCI-Expanded)
- XV. **Biological variations of ADAMTS13 and von Willebrand factor in human adults**  
Kilercik M., COŞKUN A., SERTESER M., İNAN D., Unsal I.  
BIOCHEMIA MEDICA, vol.24, no.1, pp.138-145, 2014 (SCI-Expanded)

- XVI. **Liu-Type Logistic Estimator**  
İnan D., Erdogan B.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.42, pp.1578-1586, 2013 (SCI-Expanded)
- XVII. **A New Estimator for Cox Proportional Hazard Regression Model in Presence of Collinearity**  
İNAN D., TEZ M.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.41, pp.2437-2444, 2012 (SCI-Expanded)
- XVIII. **DETERMINATION OF STRESS RESPONSES INDUCED BY ALUMINUM IN MAIZE (ZEA MAYS)**  
VARDAR F., İsmailoğlu I., İNAN D., Unal M.  
ACTA BIOLOGICA HUNGARICA, vol.62, no.2, pp.156-170, 2011 (SCI-Expanded)
- XIX. **CYTOTOXIC EFFECTS OF AN ELECTROMAGNETIC FIELD ON THE MERISTEMATIC ROOT CELLS OF LENTILS (Lens clunaris Medik.)**  
Eren P., VARDAR F., BİR BİR Y., İNAN D., Uenal M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.19, no.3, pp.481-488, 2010 (SCI-Expanded)

### Articles Published in Other Journals

- I. **A simple mathematical tool to forecast COVID-19 cumulative case numbers**  
Balak N., İnan D., Ganau M., Zoia C., Sönmez S., Kurt B., Akgül A., Tez M.  
CLINICAL EPIDEMIOLOGY AND GLOBAL HEALTH, vol.12, 2021 (ESCI)
- II. **A Modelling Approach to Increase the Explained Risk in the Proportional Hazards Regression**  
İNAN D., AŞKIN Ö. E.  
Journal of the Turkish Statistical Association, vol.11, pp.1-11, 2018 (Peer-Reviewed Journal)
- III. **Parameter Estimation of Shared Frailty Models Based on Particle Swarm Optimization**  
AŞKIN Ö. E., İNAN D., BÜYÜKLÜ A. H.  
International Journal of Statistics and Probability, vol.6, pp.48-58, 2017 (Peer-Reviewed Journal)
- IV. **Liu type estimator in cox proportional hazard regression model in presence of collinearity**  
İNAN D., TEZ M.  
20TH INTERNATIONAL CONFERENCE, EURO MINI CONFERENCE CONTINUOUS OPTIMIZATION AND KNOWLEDGE-BASED TECHNOLOGIES, EUROPT'xx2008, pp.301-305, 2008 (Peer-Reviewed Journal)

### Books & Book Chapters

- I. **İşletme, İktisat ve Sosyal Bilimler İçin İstatistik. Excel, SPSS, R ve Matlab Uygulamalı**  
İnan D.  
Nobel Yayın Dağıtım, İstanbul, 2020

### Refereed Congress / Symposium Publications in Proceedings

- I. **Type-1 Penalized Regression Functions**  
TAK N., İNAN D.  
11 th. International Statistics Congress ISC2019, 4 - 08 October 2019
- II. **Estimating Optimal Value for the Shrinkage and Biasing Parameters in Liu-Type Logistic Regression based on Particle Swarm Optimization**  
SANCAR N., İNAN D.  
11 th. International Statistics Congress ISC2019, 4 - 08 October 2019
- III. **Binary Particle Swarm Optimization as a Detection Tool for Influential Subsets in Linear Regression**  
İNAN D., DELİORMAN G.  
11 th. International Statistics Congress ISC2019, 4 - 08 October 2019

- IV. **Type-1 Panelized Regression Functions**  
TAK N., İNAN D.  
11TH International Statistics Congress, Muğla, Turkey, 4 - 08 October 2019
- V. **Liu-type Logistic Estimator based on Particle Swarm Optimization**  
SANCAR N., İNAN D.  
21st European Young Statisticians meeting, Belgrade, Serbia And Montenegro, 29 July - 02 August 2019, pp.23-24
- VI. **Particle Swarm Optimization Based Ridge Logistic Estimator.**  
İNAN D., SANCAR N.  
International Conference on Trends and Perspectives in Linear Statistical Inference, Bedlowo, Poland, 20 - 24 August 2018
- VII. **A novel Method for Detection of Influential Data Points in Cox Model**  
SANCAR N., İNAN D.  
International Conference on Trends and Perspectives in Linear Statistical Inference, Bedlowo, Poland, 20 - 24 August 2018
- VIII. **Detection of Outliers in Survival Data by Using Press-Type Residuals**  
İNAN D.  
IRSYSC 2017 - 3RD INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, 24 - 26 May 2017
- IX. **Sağkalım Modellerinin Tahmin Performansının Bulanık C Ortalamalar Algoritması Kullanılarak Arttırılması**  
İNAN D.  
TOBB ETU Endüstri Mühendisliği Bölüm Seminerleri, Turkey, 09 November 2016
- X. **Robust Estimation for Cox Regression Model Based on Sufficient Jackknife After Bootstrap Method**  
İNAN D.  
International Conference on Trends and Perspectives in Linear Statistical Inference (Linstat2016), 22 - 25 August 2016
- XI. **A Novel Modelling Approach to Increase the Explained Risk in the Proportional Hazards Regression**  
İNAN D., AŞKIN Ö. E., SARICA B.  
The 10th Tartu Conference on Multivariate Statistics, Tartu, Estonia, 28 June - 01 July 2016
- XII. **A novel Modelling Approach to Increase the Explained Risk in the Proportional Hazards Regression**  
İNAN D., AŞKIN Ö. E., SARICA B.  
Tartu Conference on Multivariate Statistics, Tartu, Estonia, 28 June - 01 July 2016
- XIII. **A New Approach to Improve the Prediction Performance of the Proportional Hazards Regression**  
İnan D., Aşkın Ö. E., Sarıca B.  
X th International Statistics Days Conference, Giresun, Turkey, 7 - 09 October 2016, pp.14-22
- XIV. **Weibull Regression Model with Shared Gamma Frailty**  
Aşkın Ö. E., İnan D.  
European Young Statisticians Meeting, Praha, Czech Republic, 31 August - 04 September 2015
- XV. **Particle Swarm Optimization Based Liu Type Estimator**  
İnan D., Eğrioğlu E., Tez M., Sarıca B.  
The Seventh International Conference on Mathematical Statistics (PROBASTAT), Bratislava, Slovakia, 29 June - 03 July 2015
- XVI. **An Alternative Estimation Method For Shared Frailty Models**  
Aşkın Ö. E., İnan D., Büyüklü A. H.  
The Seventh International Conference on Mathematical Statistics (PROBASTAT), Bratislava, Slovakia, 29 June - 03 July 2015
- XVII. **Particle Swarm Optimization Based Liu Type Estimator**  
İNAN D., EĞRİOĞLU E., TEZ M., SARICA B.  
7 th International Conference on Probability and Statistics, 29 June - 03 July 2015
- XVIII. **A Comparison of Compound Poisson Class Distributions**  
Aşkın Ö. E., İnan D., Büyüklü A. H.

The International Conference on Trends and Perspectives in Linear Statistical Inference (LinStat2014), Linköping, Sweden, 24 - 26 August 2014

**XIX. Modeling multiple time series data using wavelet-based support vector regression**

İnan D., Eygi Erdoğan B.

International Conference on Trends and Perspectives in Linear Statistics, Poznan, Poland, 16 - 20 June 2012

**XX. Combining the Liu Type Estimator and the Principal Component Regression Estimator A Comparative Simulation Study**

İNAN D.

European Young Statisticians Meeting, 17th EYSM, 5 - 09 September 2011

**XXI. A Liu Type Logistic Regression Estimator**

İnan D., Eygi Erdoğan B.

International 7th Statistics Congress-İSTKON, Antalya, Turkey, 28 April - 01 May 2011

**XXII. A New Estimator for Cox Proportional Hazard Regression Model in Presence of Collinearity**

İNAN D., TEZ M.

International Conference on Trends and Perspectives in Linear Statistical Inference (LINSTAT), Tomar, Portugal, 27 June - 03 July 2010

**XXIII. Alüminyum stresinin mısır kökleri üzerindeki etkileri**

VARDAR F., İSMAİLOĞLU I., İNAN D., ÜNAL M.

20. Ulusal Biyoloji Kongresi, Turkey, 21 - 25 June 2010

**XXIV. Yinelemeli Olay Analizi ve Çocuk Suçluluğu Üzerine bir Uygulama**

Tez M., İnan D.

6. İstatistik Günleri Sempozyumu, Samsun, Turkey, 28 - 30 August 2009

**XXV. Liu type estimator in cox proportional hazard regression model in presence of collinearity**

İNAN D., Tez M.

20th International Conference/Euro Mini Conference on Continuous Optimization and Knowledge-Based Technologies (EurOPT 2008), Neringa, Lithuania, 20 - 23 May 2008, pp.301-305

**XXVI. Hızlandırılmış yaşam testi uygulamalarında iki parametrelili Weibull regresyon modelleri**

İNAN D., TEZ M.

5. İstatistik Kongresi, Ankara, Turkey, 20 - 24 May 2007

## Activities in Scientific Journals

Turkish Journal of Forecasting, Committee Member, 2017 - Continues

## Scientific Refereeing

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, Journal Indexed in SCI-E, May 2018

JOURNAL OF APPLIED STATISTICS, Journal Indexed in SCI-E, April 2017

COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, Journal Indexed in SCI-E, March 2017

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, Journal Indexed in SCI-E, June 2016

JOURNAL OF APPLIED STATISTICS, Journal Indexed in SCI-E, March 2016

COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, Journal Indexed in SCI-E, February 2016

COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, Journal Indexed in SCI-E, October 2015

STATISTICAL PAPERS, Journal Indexed in SCI-E, May 2015

COMPUTATIONAL STATISTICS & DATA ANALYSIS, Journal Indexed in SCI-E, May 2015

Communications In Statistics-Simulation And Computation, Journal Indexed in SCI-E, December 2014

Communications In Statistics-Theory And Methods, Journal Indexed in SCI-E, August 2014

## **Tasks In Event Organizations**

İnan D., Young Business and Industrial Statisticians (y-BIS) Workshop on Recent Advances in Data Science and Business Analytics, Scientific Congress, İstanbul, Turkey, Eylül 2019

İnan D., 21st European Young Statisticians Meeting, Scientific Congress, Belgrade, Serbia And Montenegro, Ağustos 2019

İnan D., International Conference on Trends and Perspectives in Linear Statistical Inference LINSTAT 2016, Scientific Congress, İstanbul, Turkey, Aralık 2016

## **Metrics**

Publication: 51

Citation (WoS): 161

Citation (Scopus): 171

H-Index (WoS): 7

H-Index (Scopus): 8