

## Prof. AYLIN ALIN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: E-8799-2010

ScopusID: 12242677800

Yoksis Researcher ID: 143199

### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2003 - 2006

Postgraduate, Michigan State University, College of Natural Science, Department of Statistics and Probability, United States Of America 1995 - 1997

Undergraduate, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Statistics, Turkey 1989 - 1993

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Testing non-additivity in statistical models, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2006

### Research Areas

Bioinformatics, Statistical Analysis and Applications

### Academic Titles / Tasks

Professor, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2015 - Continues

Associate Professor, Michigan State University, College Of Natural Sciences, Statistics And Probability, 2014 - 2015

Associate Professor, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2010 - 2015

Assistant Professor, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2007 - 2010

Lecturer, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2003 - 2006

Lecturer, Aydın Adnan Menderes University, Faculty Of Arts And Sciences, 1999 - 2003

Research Assistant, Aydın Adnan Menderes University, Faculty Of Arts And Sciences, 1998 - 1999

## Academic and Administrative Experience

Rectorate Commissioner, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2024 - Continues  
Birim Sosyal Sorumluluk Komisyonu Başkanı, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2021 - Continues  
Rectorate Commissioner, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2021 - Continues  
Birim Kalite Komisyonu Başkanı, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2021 - Continues  
Rektörlük Kalite Komisyonu Üyesi, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2019 - Continues  
University Executive Board Member, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2018 - Continues  
Dean, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2018 - Continues  
Member of the Senate, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2018 - Continues  
Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2021 - 2022  
Rectorate Commissioner, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2019 - 2021  
Fakülte Kurulu Üyesi, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2016 - 2019  
Head of Department, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2016 - 2019  
Fakülte Yönetim Kurulu Üyesi, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2016 - 2019  
Deputy Head of Department, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2011 - 2013

## Courses

Research, Doctorate, 2021 - 2022  
Seminer, Postgraduate, 2021 - 2022  
Thesis, Doctorate, 2021 - 2022  
Uzmanlık Alanı, Postgraduate, 2021 - 2022  
Tez, Postgraduate, 2021 - 2022

## Advising Theses

Alin A., Robust Differential Network Analysis, Doctorate, A.Ölmez(Student), Continues  
Alın A., Predicting Solar Energy with Robust Machine Learning Methods, Postgraduate, C.DUTÇUN(Student), Continues  
Alin A., Diyabetik Retinopatinin Tespit ve Sınıflandırılması, Postgraduate, B.PIŞKİN(Student), Continues  
Alın A., Gerçek Dünya Koşullarında Elektrikli Araç Bataryalarının Menzil Performansı ve Makine Öğrenimi ile Batarya Sağlığı Tahminlemesi, Postgraduate, E.Emre(Student), Continues  
Alın A., Video based physical violation detection using machine learning methods, Postgraduate, M.Fatih(Student), 2022  
ALIN A., Gen ekspresyon verilerini analizi için kısmi en küçük kareler yöntemi, Postgraduate, A.ÖLMEZ(Student), 2018  
ALIN A., Genelleştirilmiş doğrusal modellerde sorun tanımlama aracı olarak Jackknife den sonra Bootstrap yöntemi, Doctorate, U.BEYAZTAŞ(Student), 2016  
ALIN A., Lojistik regresyon modelinde bazı yanlış model tanımlamaları, Doctorate, S.EREEŞ(Student), 2013  
ALIN A., Bootstrap yöntemi ile birim kök testi, Postgraduate, E.TUĞ(Student), 2013  
ALIN A., Doğrusal regresyon modellerinde uç değerlerin ve etkin gözlemlerin belirlenmesinde bootstrapten-sonra jackknife yöntemi, Postgraduate, U.BEYAZTAŞ(Student), 2012  
ALIN A., Cezalandırılmış lojistik regresyon, Postgraduate, D.GÖKSÜLÜK(Student), 2011

## Advising Graduates (Non-Thesis)

Alın A., Pekiştirilmiş Öğrenme ile Mayın Tarlası Çözücüsünün Eğitimi, Masters (Non-Thesis), E.CEYLAN(Student), 2019

## Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship,

Çanakkale Onsekiz Mart Üniversitesi, March, 2024

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Ondokuz Mayıs Üniversitesi, December, 2023

Doctorate, Doctorate, Panjab Üniversitesi, April, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Çukurova Üniversitesi, March, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Çukurova Üniversitesi, March, 2023

Associate Professor Exam, Associate Professor Exam, Dokuz Eylül Üniversitesi, December, 2022

Associate Professor Exam, Associate Professor Exam, Dokuz Eylül University, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, February, 2020

## Designed Programs

Alın A., Masters (Non-Thesis), Veri Bilimi Tezsiz Yüksek Lisans, 2018 - Continues

Alın A., Postgraduate, Data Science, 2018 - Continues

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

- I. **Function-on-Function Partial Quantile Regression**  
Beyaztaş U., Shang H. L., Alın A.  
JOURNAL OF AGRICULTURAL BIOLOGICAL AND ENVIRONMENTAL STATISTICS, vol.27, no.1, pp.149-174, 2022 (SCI-Expanded)
- II. **Robust multivariate diagnostics for PLSR and application on high dimensional spectrally overlapped drug systems**  
Alın A., Agostinelli C., Gergov G., Katsarov P., Al-Degs Y.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.89, no.6, pp.966-984, 2019 (SCI-Expanded)
- III. **Robust change point detection for linear regression models**  
Alın A., Beyaztaş U., Martin M. A.  
STATISTICS AND ITS INTERFACE, vol.12, no.2, pp.203-213, 2019 (SCI-Expanded)
- IV. **Advanced spectrophotometric chemometric methods for resolving the binary mixture of doxylamine succinate and pyridoxine hydrochloride**  
Katsarov P., Gergov G., Alın A., Pilicheva B., Al-Degs Y., Simeonov V., Kassanova M.  
ACTA PHARMACEUTICA, vol.68, no.1, pp.61-73, 2018 (SCI-Expanded)
- V. **Sufficient m-out-of-n (m/n) bootstrap**  
Alın A., Martin M. A., Beyaztaş U., Pathak P. K.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.87, no.9, pp.1742-1753, 2017 (SCI-Expanded)
- VI. **Robust iteratively reweighted SIMPLS**  
Alın A., Agostinelli C.  
JOURNAL OF CHEMOMETRICS, vol.31, no.3, 2017 (SCI-Expanded)
- VII. **Assessment of different PLS algorithms for quantification of three spectrally overlapping drugs**  
Gergov G., ALIN A., Doychinova M., De Luca M., Simeonov V., Al-Degs Y.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.49, no.2, pp.410-421, 2017 (SCI-Expanded)
- VIII. **Influences of misspecification on asymptotic relative efficiency of coefficients of determination: Application to agriculture**  
Erees S., ALIN A.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.46, no.3, pp.1842-1857, 2017 (SCI-Expanded)

- IX. **Robust confidence regions for multinomial probabilities**  
ALIN A., Basu A.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.85, no.3, pp.538-551, 2015 (SCI-Expanded)
- X. **Sufficient jackknife-after-bootstrap method for detection of influential observations in linear regression models**  
Beyaztaş U., Alın A.  
STATISTICAL PAPERS, vol.55, no.4, pp.1001-1018, 2014 (SCI-Expanded)
- XI. **Delete-2 Jackknife-After-Bootstrap in Regression**  
BEYAZTAŞ U., ALIN A.  
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, vol.30, no.7, pp.993-1002, 2014 (SCI-Expanded)
- XII. **Jackknife-After-Bootstrap as Logistic Regression Diagnostic Tool**  
BEYAZTAŞ U., ALIN A.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.43, no.9, pp.2047-2060, 2014 (SCI-Expanded)
- XIII. **Adjusted power-divergence test statistics for simple goodness-of-fit under clustered sampling**  
ALIN A.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.84, no.9, pp.1904-1916, 2014 (SCI-Expanded)
- XIV. **Robust BCa-JaB method as a diagnostic tool for linear regression models**  
BEYAZTAŞ U., ALIN A., Martin M. A.  
JOURNAL OF APPLIED STATISTICS, vol.41, no.7, pp.1593-1610, 2014 (SCI-Expanded)
- XV. **Jackknife-After-Bootstrap Method for Detection of Influential Observations in Linear Regression Models**  
BEYAZTAŞ U., ALIN A.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.42, no.6, pp.1256-1267, 2013 (SCI-Expanded)
- XVI. **IMPROVED STRAIGHTFORWARD IMPLEMENTATION OF A STATISTICALLY INSPIRED MODIFICATION OF THE PARTIAL LEAST SQUARES ALGORITHM**  
ALIN A., Ali M. M.  
PAKISTAN JOURNAL OF STATISTICS, vol.28, no.2, pp.217-229, 2012 (SCI-Expanded)
- XVII. **Penalized power-divergence test statistics for testing linear-by-linear association**  
ALIN A.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.82, no.2, pp.227-239, 2012 (SCI-Expanded)
- XVIII. **Comparison of PLS algorithms when number of objects is much larger than number of variables**  
Alın A.  
STATISTICAL PAPERS, vol.50, no.4, pp.711-720, 2009 (SCI-Expanded)
- XIX. **Power-Divergence Test Statistics for Testing Linear by Linear Association**  
ALIN A.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.38, no.7, pp.1381-1390, 2009 (SCI-Expanded)
- XX. **Ordinary and penalized minimum power-divergence estimators in two-way contingency tables**  
Alın A., Kurt S.  
COMPUTATIONAL STATISTICS, vol.23, no.3, pp.455-468, 2008 (SCI-Expanded)
- XXI. **Comparison of ordinary and penalized power-divergence test statistics for small and moderate samples in three-way contingency tables via simulation**  
Alın A.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.37, no.8, pp.1593-1602, 2008 (SCI-Expanded)
- XXII. **Testing non-additivity (interaction) in two-way ANOVA tables with no replication**  
Alın A., Kurt S.  
STATISTICAL METHODS IN MEDICAL RESEARCH, vol.15, no.1, pp.63-85, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **GLM based auto-regressive process to model Covid-19 pandemic in Turkey**  
Alin A.  
Statistical Communications in Infectious Diseases, vol.13, no.1, pp.1-18, 2021 (Peer-Reviewed Journal)
- II. **Iterated sufficient m-out-of-n (m/n) bootstrap for non-regular smooth function models**  
BEYAZTAŞ U., ALIN A., Bandyopadhyay S.  
Journal of Data Science, vol.16, no.3, pp.593-604, 2018 (Peer-Reviewed Journal)
- III. **Net analyte signal-based methods for the simultaneous determination of paracetamol, propyphenazone and caffeine by UV spectrophotometry**  
Gergov G., Alin A., Katsarov P., Simeonov V., Yankov D., Al-Degs Y.  
Bulgarian Chemical Communications, vol.50, no.2, pp.265-273, 2018 (Scopus)
- IV. **A Review of the Bootstrap Method for Sampling Without Replacement**  
PRAMOD P., ALIN A.  
Michigan State University, Department of Statistics and Probability, 2014 (Non Peer-Reviewed Journal)
- V. **Effects of Misspecifying an Explanatory Variable on Coefficients of Determination in Logistic Regression**  
EREEŞ S., ALIN A.  
Anadolu University Journal Of Science And Technology- B Theoretical Sciences, vol.3, no.1, pp.1-10, 2014 (Peer-Reviewed Journal)
- VI. **Minitab**  
Alin A.  
Wiley Interdisciplinary Reviews: Computational Statistics, vol.2, no.6, pp.723-727, 2010 (ESCI)
- VII. **Multicollinearity**  
Alin A.  
Wiley Interdisciplinary Reviews: Computational Statistics, vol.2, no.3, pp.370-374, 2010 (ESCI)
- VIII. **Simpson's paradox**  
Alin A.  
Wiley Interdisciplinary Reviews: Computational Statistics, vol.2, no.2, pp.247-250, 2010 (ESCI)
- IX. **Kısmi En Küçük Kareler Regresyon Yöntemi Algoritmalarından Nipals ve PLS Kernel Algoritmalarının Karşılaştırılması ve Bir Uygulama**  
BULUT E., ALIN A.  
Dokuz Eylül Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.24, no.2, pp.127-138, 2009 (Peer-Reviewed Journal)
- X. **Partial Least Squares analysis in electrical brain activity**  
ALIN A., KURT S., MCINTOSH A., ÖNİZ A., ÖZGÖREN M.  
Journal of Data Science, vol.7, no.1, pp.99-110, 2009 (Peer-Reviewed Journal)
- XI. **Kısmi En Küçük Kareler Algoritmalarından NIPALS ile SIMPLS in Tanıtımı ve Bir Uygulama**  
BULUT E., ALIN A.  
TÜİK İstatistik Araştırma Dergisi, vol.5, no.2, pp.52-68, 2007 (Peer-Reviewed Journal)
- XII. **Testing Log linear Models in three Way Contingency Tables Using Ordinary and penalized Power divergence Test Statistics**  
ALIN A., KURT S.  
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.2, pp.475-485, 2007 (Peer-Reviewed Journal)
- XIII. **A Note on Penalized Power Divergence Test Statistics**  
ALIN A.  
International Journal of Computational and Mathematical Sciences, vol.1, no.3, pp.209-215, 2007 (Peer-Reviewed Journal)

## Books & Book Chapters

### I. Darbeler ve Eğitim

Alın A., Ergün M. Y.

in: 15 Temmuz: Türkiye Yüzylında Milli İradenin Zaferi, Osman Bilen, Nevin Akkaya, Zafer Duygu, Bahar Soğukkuyu, Esra Uslu, Editor, Dokuz Eylül Yayınları, İzmir, pp.34-37, 2023

### II. Sürekli Rastgele Değişkenler ve Bunların Olasılık Dağılımları

ALIN A.

in: İşletme, İktisat ve Sosyal Bilimler İçin İstatistik Excel, SPSS, R ve Matlab Uygulamalı, Seda Şengül, Gülsen Kırıl, Editor, Nobel Yayınevi, Ankara, pp.143-164, 2020

## Refereed Congress / Symposium Publications in Proceedings

### I. Weighted Robust Hybrid Partial Least Squares Regression Forest

Alın A.

26th International Conference on COMPUTATIONAL STATISTICS (COMPSTAT2024), Giessen, Germany, 27 - 30 May 2024, pp.1

### II. Robust Protein Co-Expression Network for Covid-19

Ölmez A., Alın A.

The 12th Conference of Eastern Mediterranean Region of International Biometric Society (EMR2023), İzmir, Turkey, 8 - 11 May 2023, pp.54

### III. Diabetic retinopathy diagnosis and classification

Pişkin B., Alın A.

THE 12TH INTERNATIONAL CONFERENCE OF THE INTERNATIONAL BIOMETRIC SOCIETY'S EASTERN MEDITERRANEAN REGION (EMR 2023), İzmir, Turkey, 8 - 11 May 2023, pp.78

### IV. WRSmoonRF: Weighted Robust Sufficient m-out-of-n Regression Forest

Alın A.

the 12th International Conference of the International Biometric Society's Eastern Mediterranean Region (EMR 2023), İzmir, Turkey, 8 - 11 May 2023, pp.1

### V. A New Robust Approach for Building Gene Network for Covid-19

Ölmez A., Alın A.

International Symposium in Graduate Researches on Data Sciences, İzmir, Turkey, 02 December 2022, pp.1

### VI. Classification of Diabetic Retinopathy Presence: A Comparison of Three Machine Learning Classification Methods

Pişkin B., Alın A.

The First International Symposium on Graduate Researches in Data Science, İzmir, Turkey, 02 December 2022, pp.1-8

### VII. A New Robust Approach for Similarity Scores in Gene Co-Expression Networks

Ölmez A., Alın A.

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

### VIII. Robust Connectivity Scores for Gene Co-Expression Network Analysis

Alın A., Ölmez A.

2021 Virtual International Workshop of G.S.I., Samos, Greece, 24 - 26 September 2021, pp.17-25

### IX. Sabit Kameralı Derin Öğrenme Fiziksel Şiddet Tespiti Sistemi için Aşırı Hareket Öncül Fonksiyonu

Polat M. F., Alın A.

II. International Applied Statistics Conference (UYİK-2021), Tokat, Turkey, 29 June - 02 December 2021, pp.179-184

### X. Robust Gene Co-Expression Network Analysis

ALIN A., ÖLMEZ A., KARAKÜLAH G.

5th International Researchers, Statisticians and Young Statisticians Congress, 18 - 20 October 2019

- XI. **Change Point Detection in ARMA(p,q) Process and Application on Headway Data.**  
Hacıoğlu A., ALIN A., ÇALIŞKANELLİ S. P., BEYAZTAŞ U.  
IRSYSC2019, Aydın, Turkey, 4 - 08 October 2019
- XII. **Robust Random Forest for Regression**  
ALIN A.  
10th International Workshop on Simulation and Statistics, Salzburg, Austria, 2 - 06 September 2019
- XIII. **Differential Network Analysis with Partial Least Square Regression**  
ALIN A., ÖLMEZ A., KARAKÜLAH G., SUNER KARAKÜLAH A.  
11th International Statistics Days Conference (11th ISDC2018), Muğla, Turkey, 3 - 07 October 2018
- XIV. **Robust Multivariate Outlier Diagnostics in Chemometrics with Application to Spectrally Overlapping Drugs**  
ALIN A., Agostinelli C., Gergov G., Katsarov P., Al-Degs Y.  
SDSS2018, Reston, VA, United States Of America, 16 - 19 May 2018
- XV. **Change point detection in vehicle time headways**  
ALIN A., Hacıoğlu A., TANYEL S., BEYAZTAŞ U.  
4th International Researchers, Statisticians and Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018, pp.161
- XVI. **Differential network analysis on mouse brain parts using PLSR**  
ALIN A., Ölmez a., KARAKÜLAH G., SUNER KARAKÜLAH A.  
4th International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2018), 28 - 30 April 2018
- XVII. **Gene Co-Expression Network Analysis with Partial Least Square Regression**  
ÖLMEZ A., ALIN A., KARAKÜLAH G., SUNER KARAKÜLAH A.  
COSTAS 2017 (International Conference on Computational and Statistical Methods in Applied Sciences) Kongresi, Samsun, Turkey, 9 - 11 November 2017
- XVIII. **Gene Co-Expression Network Analysis with Partial Least squares Regression**  
Ölmez A., ALIN A., KARAKÜLAH G., SUNER KARAKÜLAH A.  
International Conference on Computational and Statistical Methods in Applied Sciences, Samsun, Turkey, 9 - 11 November 2017
- XIX. **Robust Outlier Detection in Partial Least Squares Regression**  
ALIN A., Agostinelli C.  
ISI2017, Marrakech, Morocco, 16 - 21 July 2017
- XX. **Linear regression Model with Change Points**  
Gelmedi C., ALIN A.  
3rd International Researchers, Statisticians, Young Statisticians Congress (IRSYSC2017), Konya, Turkey, 24 - 26 May 2017
- XXI. **Sufficient m out of n Bootstrap**  
ALIN A., MARTIN M., BEYAZTAŞ U., PATHAK P.  
LINSTAT16, 22 - 25 August 2016
- XXII. **Robust weighted Partial Least Squares Regression**  
ALIN A., AGOSTINELLI C.  
ICORS2016, 4 - 08 July 2016
- XXIII. **Robust Change Point Regression**  
ALIN A., BEYAZTAŞ U.  
ICSMHD2016, 18 - 21 May 2016
- XXIV. **Some notes on sufficient bootstrap**  
BEYAZTAŞ U., ALIN A.  
LINSTAT2014, Sweden, 24 - 28 August 2014
- XXV. **Adjusted power Divergence test statistics for Simple Goodness of Fit under Clustered Sampling**  
ALIN A.  
Int. Conf. On Advances in Prob. and Stat.-Theory and Applications: A Celebration pf N. Balakrishnan's 30 years of

Contributions to Statistics, Hong Kong, 28 - 31 December 2011

- XXVI. **Robust BCa JaB method as a diagnostic tool for linear regression models**  
BEYAZTAŞ U., ALIN A., MARTIN M.  
8th Annual Prob/Stat Day Conference at UMBC, United States Of America, 18 - 20 April 2014
- XXVII. **Power Divergence test Statistics**  
ALIN A.  
I. GENÇ İSTATİSTİKÇİLER SEMPOZYUMU, Turkey, 10 - 11 December 2013
- XXVIII. **Delete 2 Jackknife after Bootstrap in Regression**  
BEYAZTAŞ U., ALIN A.  
y-BIS 2013, Turkey, 19 - 21 September 2013
- XXIX. **BCa JaB Method as a Diagnostic Tool for Linear Regression Models**  
BEYAZTAŞ U., ALIN A.  
18TH ESYM, Croatia, 26 - 30 August 2013
- XXX. **Robust confidence regions for multinomial probabilities**  
ALIN A., BASU A.  
ICORS2013, Russia, 8 - 12 July 2013
- XXXI. **Effects of misspecifying an explanatory variable on coefficients of determination in logistic regression**  
EREEŞ S., ALIN A.  
8th International Symposium of Statistics, Turkey, 11 - 13 October 2012
- XXXII. **Sufficient Jackknife after Bootstrap Method for Detection of Influential Observations in Linear Regression Models**  
BEYAZTAŞ U., ALIN A.  
8th International Symposium of Statistics, Turkey, 11 - 13 October 2012
- XXXIII. **Jackknife after Bootstrap as Logistic Regression Diagnostic Tool**  
BEYAZTAŞ U., ALIN A.  
LINSTAT2012 & IWMS2012, Poland, 15 - 20 July 2012
- XXXIV. **Penalizing Power Divergence Test Statistics For Testing Linear By Linear Association**  
ALIN A.  
LINSTAT2010, 27 - 31 July 2010
- XXXV. **Bootstrap Confidence Regions for Multinomial Probabilities Based on Penalized Power Divergence Test Statistics**  
ALIN A., BASU A.  
LINSTAT2012 & IWMS2012, Poland, 15 - 20 July 2012
- XXXVI. **Penalized Logistic Regression When Multicollinearity Exists Among The Predictors**  
GÖKSÜLÜK D., ALIN A.  
NEDETAS, Turkey, 2 - 04 May 2011
- XXXVII. **Jackknife after bootstrap method for detection of influential observations in linear regression models**  
BEYAZTAŞ U., ALIN A.  
NEDETAS, Turkey, 2 - 04 May 2011
- XXXVIII. **Using Partial Standard Deviations in Partial Least squares Regression**  
ALIN A.  
International Conference Applied Statistics 2008, Slovenia, 21 - 24 September 2008
- XXXIX. **The subitems of Turkish version of MMSE differentiate stages in Alzheimer type of dementia**  
DASTAN S., ALIN A., YENER G.  
X. International Conference on Cognitive Neuroscience, Turkey, 1 - 05 January 2008
- XL. **Improved SIMPLS Algorithm**  
ALIN A.  
International Conference on Multivariate Statistical Modelling and High Dimensional Data Mining, 19 - 23 June 2008

- XLI. Comparison of PLS Algorithms When Number of Objects is Much Larger Than Number of Variables**  
ALIN A.  
The International Conference on Trends and Perspectives in Linear Statistical Inference LINSTAT2008, Poland, 21 - 25 April 2008
- XLII. Testing Independence for the Linear by Linear Association Model Using Power Divergence Test Statistics**  
ALIN A.  
The International Conference on Trends and Perspectives in Linear Statistical Inference LINSTAT2008, Poland, 21 - 25 April 2008
- XLIII. Modelling Dichotic and EEG Data Using PLSR with Kernel Matrix Based Algorithms**  
ALIN A., KURT S., ÖNİZ A., ÖZGÖREN M.  
II. Workshop on Brain Biophysics with Young Scientists, Dokuz Eylül University, 21 - 23 February 2008
- XLIV. Penalized Power Divergence Test Statistics vs Ordinary Power Divergence Test Statistics in Two Way Ordinal Contingency Tables**  
ALIN A.  
6. Statistics Days Symposium –IGS2008, Turkey, 27 - 29 August 2008
- XLV. Comparison of Ordinary and Penalized Power Divergence Test Statistics for Small and Moderate Samples in Three Way Contingency Tables Via Simulation**  
ALIN A.  
International Conference Applied Statistics 2007, 23 - 26 September 2007
- XLVI. Kısmi En Küçük Kareler Algoritmalarından NIPALS ve SIMPLS Algoritmalarının Karşılaştırılması**  
BULUT E., ALIN A.  
X. ULUSAL BİYOİSTATİSTİK KONFERANSI, Turkey, 5 - 08 September 2007
- XLVII. Ordinary and Penalized Minimum Power Divergence Estimators in Two Way Contingency Tables**  
ALIN A., KURT S.  
International Conference on Mathematics and Statistics, 11 - 13 June 2007
- XLVIII. Temel Bileşenler Regresyonu ve Kısmi En Küçük Kareler Regresyonu Metotlarının Karşılaştırılması**  
BULUT E., ALIN A.  
5. İSTATİSTİK KONFERANSI, Turkey, 20 - 24 May 2007
- XLIX. Partial Least Squares Analysis in Electrical Brain Activity**  
ALIN A., KURT S., MCINTOSH A. R., ÖNİZ A., ÖZGÖREN M.  
I. Workshop on Brain Biophysics with Young Scientists: Problems and Solutions, Dokuz Eylül Üniversitesi, Turkey, 9 - 11 May 2007
- L. A Note on Penalized Power-Divergence Test Statistics**  
ALIN A.  
Conference of the World-Academy-of-Science-Engineering-and-Technology, Vienna, Austria, 25 - 27 May 2007, vol.21, pp.60-65
- LI. Ordinary and Penalized Power Divergence Test Statistics in Two Way Contingency Tables**  
ALIN A., KURT S.  
The International Conference on Modelling and Simulation, Konya, Turkey, 28 - 30 August 2006
- LII. Testing Log Linear Models in Three Way Contingency Tables Using Ordinary and Penalized Power Divergence Test Statistics**  
ALIN A., KURT S.  
Applied Statistics Symposium, 14 - 17 June 2006
- LIII. Tek Tekrarlı iki Yönlü Tablolarda Etkileşim Toplanamazlık Testi Testing Nonadditivity in Two Way Tables with No Replication**  
ALIN A.  
4. Statistics Days Symposium, Turkey, 13 - 24 May 2004

## Supported Projects

ÖZYILMAZ G., MUSLU N. Ö., ALIN A., ÖZTUNA H. Y., BİLEN O., ÖZEL DEMİRALP F. D., ÖZ K., KÜNTAY E., KAFADAR U., Project Supported by Higher Education Institutions, Hepimiz Çocuktuk, 2023 - Continues

ALIN A., Project Supported by Higher Education Institutions, Dayanıklı Diferansiyel Gen İfade Ağ Analizi, 2021 - Continues

Sade Memişoğlu A., Canlı K., Özel Demiralp F. D., Akıncı G., ALIN A., Project Supported by Higher Education Institutions, Ege Bölgesi Ormanlarında Yayılış Gösteren Bazı Tıbbi Bitkilerin Kolon, Ovaryum ve Meme Kanseri Hücrelerinde Anti-Kanser Etkilerinin ve Kansere Mortalitesinde Etkili Enfeksiyonlara Karşı Aktivitesinin Araştırılması, 2023 - 2025

ALIN A., Project Supported by Higher Education Institutions, Adjusted Power-Divergence Test Statistics for Simple Goodness-of-Fit and Independence Tests under Clustered Sampling, 2012 - 2014

Kurt S., Alın A., Project Supported by Higher Education Institutions, Testing Nonadditivity (Interaction) in Statistical Models, 2005 - 2007

## Activities in Scientific Journals

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, Editor, 2020 - Continues

Journal of Statistics, Committee Member, 2015 - Continues

Pakistan Journal of Statistics and Operation Research, Committee Member, 2012 - Continues

Pakistan Journal of Statistics and Operation Research, Special Issue Editor, 2012 - 2012

## Memberships / Tasks in Scientific Organizations

Athens Institute for Education and Research A World Association of Academics and Researchers, Member, 2022 - Continues, Greece

International Association for Statistical Computing, Member, 2015 - Continues, United States Of America

International Statistical Institute, Member, 2014 - Continues, United States Of America

American Statistical Association, Member, 2005 - Continues, United States Of America

Institute of Mathematical Statistics, Member, 2005 - Continues, United States Of America

## Scientific Refereeing

FRONTIERS IN CLIMATE, Journal Indexed in ESCI, July 2023

COMPUTATIONAL STATISTICS, Journal Indexed in SCI-E, April 2023

JOURNAL OF APPLIED STATISTICS, Journal Indexed in SCI-E, February 2023

COMPUTATIONAL STATISTICS, SCI Journal, January 2023

Results in Chemistry, Journal Indexed in ESCI, November 2022

Statistical Modeling and Applications on Real-Time Problems, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, November 2022

COMMUNICATIONS IN STATISTICS -THEORY AND METHODS, Journal Indexed in SCI-E, June 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Dokuz Eylul University, Turkey, June 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Dokuz Eylul University, Turkey, June 2022

COMPUTATIONAL STATISTICS, Journal Indexed in SCI-E, March 2022

## Tasks In Event Organizations

Alın A., Fıstıkoğlu O., 2nd International Symposium Series on Graduate Researches in Data Sciences, Scientific Congress, Turkey, Kasım 2023

Alın A., 7th International Researchers, Statisticians, and Young Statisticians Congress , Scientific Congress, İstanbul, Turkey, Kasım 2023

Alın A., Cavid Oğlu A. İ., Altınışık Tağaç A., First International Biology and Chemistry Symposium Between Dokuz Eylül University and Ganja State University, Scientific Congress, Turkey, Temmuz 2023

Alın A., The 4th Environment Day, Scientific Congress, İzmir, Turkey, Haziran 2023

Alın A., International Symposium Series in Graduate Researches on Data Sciences, Scientific Congress, İzmir, Turkey, Aralık 2022

Alın A., 2nd International Bileteral Workshop between DEU and ANAS, Workshop Organization, Turkey, Kasım 2022

Alın A., Biodiversity, land and water resources of Shusha and surrounding areas: a vision for the future" planned to be held in the cities of Shusha and Baku, Scientific Congress, Baku, Azerbaijan, Eylül 2022

Alın A., Hüseyinova İ., Çavaş L., Nasiboğlu R., Canlı K., Yıldız Tunalı A., Yıldız T., Altınışık Tanaç A., Altunbulak M., International Bileteral Workshop between DEU and ANAS, Workshop Organization, Turkey, Kasım 2021

Alın A., VUPA ÇİLENGİROĞLU Ö., 4th International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2018), Scientific Congress, Turkey, Nisan 2018

## Mobility Activity

Erasmus Programme, Lecturing, Sofya "Sv. Kliment Ohridski" Üniversitesi, Bulgaria, 2019 - 2019

Sabbatical Leave, Lecturing, Michigan State University, United States Of America, 2013 - 2015

## Metrics

Publication: 90

Citation (WoS): 137

Citation (Scopus): 620

H-Index (WoS): 8

H-Index (Scopus): 9

## Scholarships

Grant by University of Tennessee for being speaker in HDM-2008 , University, 2008 - 2008

Yeni Açılan Üniversitelere Öğretim Elemanı Yetiştirme Programı, Ministry of Education, 1995 - 1997

## Awards

Pişkin B., Alın A., Best Oral Presentation Award for presentation titled "Diabetic retinopathy diagnosis and classification", International Biometric Society's Eastern Mediterranean Region , May 2023

Alın A., The Great Achievement Award for the studies during PHD education given by Science Institute of DEU, Dokuz Eylül Üniversitesi Fen Bilimleri Enstitüsü, May 2010

Alın A., o Best Poster Award for the Poster "Comparison of PLS Algorithms When Number of Objects is Much Larger than Number of Variables" presented in LINSTAT2008 held in Będlewo, Poland, , Scientific Committee Of Linstat Conference, April 2008

Alın A., o New Methods Award for the Poster "Partial Least Squares Analysis in Electrical Brain Activity" presented in 1st Workshop on Brain Biophysics with Young Scientists;, Dokuz Eylül University , May 2007