

## Prof. SERPİL AKTAŞ ALTUNAY

### Personal Information

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### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 1994 - 1999

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 1991 - 1994

Undergraduate, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, Turkey 1986 - 1990

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Karesel Olmsallık Tablolarının Çözümlemesi, Hacettepe Üniversitesi, Fen Fakültesi, İstatistik Bölümü, 1994

### Research Areas

Statistics, Statistical Analysis and Applications, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2010 - 2010

### Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, İstatistik Bölümü, 2012 - Continues

Hacettepe Üniversitesi, Fen Fakültesi, İstatistik Bölümü, 2012 - Continues

### Advising Theses

AKTAŞ ALTUNAY S., Estimation of Variance Components in Gage Repeatability & Reproducibility, Postgraduate, Z.DİNDAŞ(Student), 2018

AKTAŞ ALTUNAY S., Genetik epidemiyolojide genelleştirilmiş doğrusal modeller yaklaşımı, Doctorate, Ö.KARADAĞ(Student), 2016

- AKTAŞ ALTUNAY S., Uç değerler teorisi ve Türkiye deprem verisi üzerine bir uygulama, Postgraduate, S.GÜNEY(Student), 2015
- AKTAŞ ALTUNAY S., Yüksek dereceden yanıt yüzeyi modelleri üzerine bir çalışma, Postgraduate, E.ÇİFTÇİ(Student), 2011
- AKTAŞ ALTUNAY S., Sıralı seçenek hipotezlerinde kullanılan testler, Postgraduate, H.DAĞLIOĞLU(Student), 2008
- AKTAŞ ALTUNAY S., Yapısal eşitlik modelleri, Postgraduate, C.TEZCAN(Student), 2008
- AKTAŞ ALTUNAY S., Kesikli seçim analizi ve bir uygulama, Postgraduate, S.OSMANOĞLU(Student), 2005

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

- I. **Parameter estimates for two-way repeated measurement MANOVA based on multivariate Laplace distribution**  
Celikbicak M. B. , AKTAŞ ALTUNAY S.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.4, pp.1533-1549, 2020 (Journal Indexed in SCI)
- II. **Assessment of SNP-SNP interactions by using square contingency table analysis**  
KARADAĞ ÇAMAN Ö., Altun G., Aktas S.  
ANAIŞ DA ACADEMIA BRASILEIRA DE CIENCIAS, vol.92, no.3, 2020 (Journal Indexed in SCI)
- III. **A generalized, multi-stage adjusted, latent class linear mixed model for testing genetic association**  
KARADAĞ ÇAMAN Ö., Aktas S.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.48, no.8, pp.2301-2312, 2019 (Journal Indexed in SCI)
- IV. **Publication Preview Source A Generalized Multi-Stage Adjusted, Latent Class Linear Mixed Model for Testing Genetic Association**  
AKTAŞ ALTUNAY S., KARADAĞ Ö.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.1, no.1, pp.1-10, 2018 (Journal Indexed in SCI Expanded)
- V. **Power Divergence Statistics under Quasi Independence Model for Square Contingency Tables**  
AKTAŞ ALTUNAY S.  
Sains Malaysiana, vol.45, pp.1573-1578, 2016 (Journal Indexed in SCI Expanded)
- VI. **Subsymmetry and asymmetry models for multiway square contingency tables with ordered categories**  
Aktas S.  
OPEN MATHEMATICS, vol.14, pp.195-204, 2016 (Journal Indexed in SCI)
- VII. **Testing the Trend for Genotype Distribution of Hypertension Patients in Case-Control Studies**  
Karadag O., Aktas S.  
INTERNATIONAL JOURNAL OF HUMAN GENETICS, vol.16, pp.16-21, 2016 (Journal Indexed in SCI)
- VIII. **Generalized maximum entropy approach to unreplicated factorial experiments**  
ARAT M. M. , Aktas S.  
STATISTICS AND ITS INTERFACE, vol.9, no.3, pp.295-302, 2016 (Journal Indexed in SCI)
- IX. **MARGINAL HOMOGENEITY MODEL FOR ORDERED CATEGORIES WITH OPEN ENDS IN SQUARE CONTINGENCY TABLES**  
Aktas S., WU S.  
REVSTAT-STATISTICAL JOURNAL, vol.13, no.3, pp.233-242, 2015 (Journal Indexed in SCI)
- X. **ESTIMATION OF THE CORRELATION COEFFICIENT FOR TRIANGULAR CONTINGENCY TABLES UNDER THE BIVARIATE NORMAL DISTRIBUTION**  
Aktas S.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.39, no.1, pp.75-80, 2010 (Journal Indexed in SCI)
- XI. **Estimation of symmetric disagreement using a uniform association model for ordinal agreement data**  
Aktas S., Saracbasi T.  
ASTA-ADVANCES IN STATISTICAL ANALYSIS, vol.93, no.3, pp.335-343, 2009 (Journal Indexed in SCI)

- XII. **Estimation of change point and compound Poisson process parameters for the earthquake data in Turkey**  
Aktas S., Konsuk H., Yigiter A.  
ENVIRONMETRICS, vol.20, no.4, pp.416-427, 2009 (Journal Indexed in SCI)
- XIII. **Comparisons of Sum of Squares Methods in ANOVA Models**  
Ergun G., Aktas S.  
KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI, vol.15, no.3, pp.481-484, 2009 (Journal Indexed in SCI)
- XIV. **Computation of the quasi-independence model for the analysis of triangular contingency tables**  
Aktas S.  
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.89, no.1, pp.72-75, 2008 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Post-hoc comparison tests for odds ratios**  
YILMAZ A. E. , AKTAŞ ALTUNAY S.  
ELECTRONIC JOURNAL OF APPLIED STATISTICAL ANALYSIS, vol.15, no.1, pp.75-94, 2022 (Journal Indexed in ESCI)
- II. **Inter-Rater Agreement under Stratified Random Sampling Scheme**  
YILMAZ A. E. , AKTAŞ ALTUNAY S.  
International Journal of Advances in Engineering and Pure Sciences, vol.32, no.3, pp.297-294, 2020 (Refereed Journals of Other Institutions)
- III. **Testing the Marginal Proportions for Marginal Homogeneity Model in Square Contingency Tables with Ordered Categories**  
Altun G., AKTAŞ ALTUNAY S.  
Internationa Journal of Mathematics and Computation, vol.30, no.1, pp.93-104, 2019 (Refereed Journals of Other Institutions)
- IV. **Latent Class Models Approach to the Multi-rater Agreement**  
YILMAZ A. E. , AKTAŞ ALTUNAY S.  
International Journal of Applied Mathematics and Statistics, vol.57, 2018 (Refereed Journals of Other Institutions)
- V. **Generalized Estimating Equations for Genetic Association Studies of Multi-Correlated Longitudinal Family Data**  
KARADAĞ ATAŞ Ö., AKTAŞ ALTUNAY S.  
Gazi Journal of Science, vol.31, pp.273-280, 2018 (Refereed Journals of Other Institutions)
- VI. **Bradley-Terry Modeli ile Türkiye Basketbol Süper Ligi'nde Takımların Ev Sahibi Olma Avantajının İncelenmesi**  
BAHÇECİTAPAR M., RIFAT E., AKTAŞ ALTUNAY S.  
Hacettepe Spor Bilimleri Dergisi, vol.29, pp.15-26, 2018 (Refereed Journals of Other Institutions)
- VII. **Çoklu doğrusal bağlantı durumunda doğrusal karma modelin kullanımı ve bir uygulama**  
BAHÇECİTAPAR M., AKTAŞ ALTUNAY S.  
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, pp.1349-1359, 2017 (Refereed Journals of Other Institutions)
- VIII. **PISA 2012 Matematik Puanları İçin Doğrusal Karma Etkiler Modeli**  
BAHÇECİTAPAR M., AKTAŞ ALTUNAY S.  
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, 2017 (Refereed Journals of Other Institutions)
- IX. **Students opinions about science and technology in Turkey and the United states: A Cros cultural study**  
KORKMAZ H., THOMAS J. A. , TATAR N., AKTAŞ ALTUNAY S.  
International OnlineJournal of Education and Teaching, vol.4, pp.330-344, 2017 (Refereed Journals of Other Institutions)
- X. **Students out of achool experiences, job priorities, and perceptions toward themselves as a scientist:**

**a cross cultural study**

Korkmaz H., Thomas J. A. , Tatar N., Aktaş Altunay S.

International Journal of Curriculum and Instruction, vol.63, no.9, pp.63-80, 2017 (Refereed Journals of Other Institutions)

- XI. **Generalized Estimating Equations Approach To Multi-Way Contingency Tables With Longitudinal Data In Case-Control Studies,**  
BAHÇECİTAPAR M., AKTAŞ ALTUNAY S.  
Türkiye Klinikleri Biyoistatistik Dergisi, 2017 (Refereed Journals of Other Institutions)
- XII. **Beta Regression For The Indicator Values of Well-Being Index for Provinces in Turkey**  
ÜNLÜ H., AKTAŞ ALTUNAY S.  
Journal of Engineering Technology and Applied Sciences, vol.2, pp.101-111, 2017 (Refereed Journals of Other Institutions)
- XIII. **Genetik Çalışmalarında Ailesel Yakınlıkların Ölçümü için Sınıf içi ve Sınıflar Arası Korelasyon Katsayıları**  
KARADAĞ Ö., AKTAŞ ALTUNAY S.  
journal of statisticians: statistics and actuarial sciences, vol.10, pp.96-103, 2017 (Refereed Journals of Other Institutions)
- XIV. **Estimation of Sample Size and Power for General Full Factorial Design in Educational Experiments**  
BAHÇECİTAPAR M., KARADAĞ Ö., AKTAŞ ALTUNAY S.  
Journal of Statisticians: Statistics and Actuarial Sciences, vol.9, pp.79-86, 2016 (Other Refereed National Journals)
- XV. **Karesel Olumsuzluk Tablolarında Asimetri ve Çarpık Simetri Modelleri**  
GÖKÇEN A., AKTAŞ ALTUNAY S.  
Türkiye Klinikleri Biyoistatistik Dergisi, vol.8, pp.152-161, 2016 (Refereed Journals of Other Institutions)
- XVI. **Quasi likelihood Approach to Rater Agreement plus Linear by Linear Association Model for Ordinal Contingency Tables**  
AKTAŞ ALTUNAY S., BAHÇECİTAPAR M.  
Journal of Statistics: Advances in Theory and Applications, vol.16, pp.1-15, 2016 (Refereed Journals of Other Institutions)
- XVII. **Evaluation of Consumer Confidence Index of Central Bank of Turkey**  
AKTAŞ ALTUNAY S., KARAGÖZ D.  
The Online Journal of Science and Technology, vol.5, pp.31-36, 2015 (Refereed Journals of Other Institutions)
- XVIII. **Effect Size For Saw Tooth Power Function in Binomial Trials**  
AKTAŞ ALTUNAY S.  
Int. J. Stat. Math, vol.14, pp.24-31, 2015 (Refereed Journals of Other Institutions)
- XIX. **Analysis of Cancer Incidence Data Using Generalized Linear Model with Nested Effect**  
AKTAŞ ALTUNAY S.  
Advances and Applications in Statistics, vol.44, pp.43-56, 2015 (Refereed Journals of Other Institutions)
- XX. **Türkiye deki İllerin 2012 2013 Örgün Eğitim İstatistikleri Bakımından Sınıflandırılması ve Sıralanması**  
SEMİH K., AKTAŞ ALTUNAY S., KARADAĞ Ö.  
Journal of Research in Education and Teaching, vol.4, pp.98-110, 2015 (Refereed Journals of Other Institutions)
- XXI. **Hasta Memnuniyetine Yanıt Yüzeyi Yöntemi Yaklaşımı**  
ÇİTÇİ E., AKTAŞ ALTUNAY S.  
Avrupa Bilim ve Teknoloji Dergisi, vol.2, pp.132-145, 2015 (Refereed Journals of Other Institutions)
- XXII. **Trends in Human Development Index of Member Countries of European Union**  
KARAGÖZ D., AKTAŞ ALTUNAY S.  
The Online Journal of Science and Technology, vol.5, pp.68-79, 2015 (Refereed Journals of Other Institutions)
- XXIII. **Testing the transition probabilities in square contingency tables**  
AKTAŞ ALTUNAY S.  
Journal of Scientific Research and Reports, vol.8, pp.1-6, 2015 (Refereed Journals of Other Institutions)
- XXIV. **Evaluation of Consumer Confidence Index of Central Bank of Turkey Consumer Tendency Survey**

- AKTAŞ ALTUNAY S., KARAGÖZ D.  
The Online Journal of Science and Technology, vol.5, pp.32-36, 2015 (Refereed Journals of Other Institutions)
- XXV. **Specification of Variance Covariance Structure in Bivariate Mixed Model for Unequally Time Spaced Longitudinal Data**  
BAHÇECİTAPAR M., KARADAĞ Ö., AKTAŞ ALTUNAY S.  
International Journal of Statistics in Medical Research, vol.4, pp.370-377, 2015 (Refereed Journals of Other Institutions)
- XXVI. **A study of resampling methods for testing equality of means in paired population**  
AKTAŞ ALTUNAY S.  
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.1, no.1, pp.1, 2015 (Refereed Journals of Other Institutions)
- XXVII. **Group Based Trajectory Modeling of Longitudinal International Infant Mortality Rates**  
AKTAŞ ALTUNAY S., STEVEN J F.  
Population Review, 2014 (Refereed Journals of Other Institutions)
- XXVIII. **Linear Mixed Model Analysis of Worldwide Longitudinal Infant Mortality Rate Data**  
AKTAŞ ALTUNAY S.  
Journal of Mathematics and System Science, 2013 (Refereed Journals of Other Institutions)
- XXIX. **Optimal Sample Size Determination for the ANOVA Designs**  
KARADAĞ ÇAMAN Ö., Aktas S.  
INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS & STATISTICS, vol.25, no.1, pp.127-134, 2012 (Journal Indexed in ESCI)
- XXX. **Basit Doğrusal Regresyonda Sağlam ve Theil Kestiricilerinin Karşılaştırılması**  
TOKA O., ÇETİN M., AKTAŞ ALTUNAY S.  
İstatistik Araştırma Dergisi, vol.8, no.3, pp.45-53, 2011 (Refereed Journals of Other Institutions)
- XXXI. **Efficient Optimality Criterion for the Response Surface Designs**  
AKTAŞ ALTUNAY S.  
International Journal of Mathematics Computation, vol.13, 2011 (Refereed Journals of Other Institutions)
- XXXII. **Confidence Intervals Based on Robust Estimators**  
ÇETİN M., Aktas S.  
JOURNAL OF MODERN APPLIED STATISTICAL METHODS, vol.7, no.1, pp.253-258, 2008 (Journal Indexed in ESCI)

## **Books & Book Chapters**

- I. **Kategorik Veri Analizi**  
SARAÇBAŞI T., AKTAŞ ALTUNAY S.  
Hacettepe Üniversitesi, 2016

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Ridit and Exponential Weights for Multi-rater Agreement Studies in Latent Class Models**  
YILMAZ A. E. , AKTAŞ ALTUNAY S.  
IRSYSC 2018, İzmir, Turkey, 28 - 30 April 2018
- II. **The Intra And Interclass Correlation Coefficients for Measuring the Familial Relatedness in Genetic Studies**  
KARADAĞ Ö., AKTAŞ ALTUNAY S.  
The 10th International Conference of the ERCIM WG on Computational and Methodological Statistics, 16 - 18 December 2017
- III. **Measuring Degree of Distinguishability and Agreement in Ordinal Rating Scales**  
YILMAZ A. E. , AKTAŞ ALTUNAY S.

- XIX. Ulusal ve II. Uluslararası Biyoistatistik Kongresi, 25 - 28 October 2017
- IV. **Bayesian Conditional Auto Regressive Model for Mapping Respiratory Disease Mortality in Turkey**  
CAN C. E. , BAKACAK L., AKTAŞ ALTUNAY S., YİĞİTER A.  
İSTKON2017, 6 - 08 December 2017
- V. **., Estimation of Variance Components in Gage Repeatability Reproducibility Studies**  
DİNDAŞ Z., AKTAŞ ALTUNAY S.  
İSTKON2017, 6 - 08 December 2017
- VI. **Karesel Olumsuzluk Tablolarında Gen-Gen Etkileşimlerinin Analizi,**  
ALTUN G., KARADAĞ Ö., AKTAŞ ALTUNAY S.  
18. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu, 5 - 07 October 2017
- VII. **Latent class models approach to the rater agreement in ordered square contingency tables**  
YILMAZ A. E. , AKTAŞ ALTUNAY S.  
61st World Statistics Congress, MARAKEŞ, Morocco, 16 - 21 July 2017
- VIII. **Bivariate Poisson-Laguerre Polynomial Model**  
ÜNLÜ H., AKTAŞ ALTUNAY S.  
3rd International Researchers, Statisticians and Young Statisticians Congress, 24 - 26 May 2017
- IX. **Pairwise Comparisons For Marginal Homogeneity Model in Square Contingency Tables**  
ALTUN G., AKTAŞ ALTUNAY S.  
3rd International Conference On Advances in Statistics, 28 - 30 April 2017
- X. **Goodness of Fit Tests For Hardy Weinberg Equilibrium**  
KARADAĞ Ö., AKTAŞ ALTUNAY S.  
3rd International Conference On Advances In Statistics, 28 - 30 April 2017
- XI. **Bayesian Poisson Hidden Markov Model**  
CAN C. E. , AKTAŞ ALTUNAY S.  
3rd International Conference On Advances In Statistics, 28 - 30 April 2017
- XII. **LATENT CLASS MODELS APPROACH TO THE RATER AGREEMENT**  
YILMAZ A. E. , AKTAŞ ALTUNAY S.  
58th Annual Conference of the South African Statistical Association, Cape-Town, South Africa, 28 November - 01 December 2016
- XIII. **Goodness of Fit Tests for Generalized Gamma Distribution**  
KARADAĞ ÇAMAN Ö., Aktas S.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 23 - 29 September 2015, vol.1738
- XIV. **Çok Terimli Dağılım Varsayımı Altında Trafik Kazalarının Aylara Ve Günlere Göre Dağılımı**  
ÜNLÜ H., AKTAŞ ALTUNAY S.  
6. KARAYOLU TRAFİK GÜVENLİĞİ SEMPOZYUMU, Turkey, 12 - 14 November 2015
- XV. **Generalized Estimating Equations for Genetic Association Studies of Longitudinal Family Data**  
KARADAĞ Ö., AKTAŞ ALTUNAY S.  
22nd International Scientific Symposium on Biometrics, 28 June - 01 July 2015
- XVI. **Triangle Distribution for Positively Skewed Data**  
KARAGÖZ D., AKTAŞ ALTUNAY S.  
6th International Conference on New Horizons in Education, 10 - 12 June 2015
- XVII. **Confidence Interval for Kappa Coefficient under Stratified Sampling**  
YILMAZ A. E. , AKTAŞ ALTUNAY S.  
8th conference of the Eastern Mediterranean Region of the International Biometric Society, 11 - 15 May 2015
- XVIII. **Testing the trend for 2xk contingency tables**  
KARADAĞ Ö., AKTAŞ ALTUNAY S.  
8th conference of the Eastern Mediterranean Region of the International Biometric Society, 11 - 15 May 2015
- XIX. **Detection of Multiple Outliers in Multivariate Data**  
KARAGÖZ D., AKTAŞ ALTUNAY S.  
8th conference of the Eastern Mediterranean Region of the International Biometric Society, 11 - 15 May 2015

- XX. **Ridit and Exponential Type Scores for Estimating Kappa Statistics**  
AKTAŞ ALTUNAY S., YILMAZ A. E.  
11th Applied Statistics 2014, International Conference, Ribno, Slovenia, 21 - 24 September 2014
- XXI. **Departure from Uniform Association in Square Contingency Tables**  
AKTAŞ ALTUNAY S., YILMAZ A. E.  
11th Applied Statistics 2014, International Conference, Ribno, Slovenia, 21 - 24 September 2014
- XXII. **Two Sample t Test Under Serial Dependence**  
AKTAŞ ALTUNAY S., YILMAZ A. E.  
ENBIS-2013, Ankara, Turkey, 15 - 19 September 2013
- XXIII. **Effect of the row and the column scores in contingency tables having ordered categories**  
Aktas S., SARACBASI T.  
International Conference on Applied Statistical in Medical Sciences, Ankara, Turkey, 01 August 1997, vol.4, pp.211-219
- XXIV. **Percutaneous bone-marrow grafting of fractures and bony defects in rabbits**  
Sahin V., Karakas E., Belenli O., Yavuz O., Aktas S.  
International Meeting of the International-Research-Society-of-Orthopaedic-Surgery-and-Traumatology, Sydney, Australia, 16 - 19 April 1999, pp.279-284

## Supported Projects

- KARADAĞ ATAŞ Ö., AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, Genetik Çalışmalarında Ailesel Yakınlıkların Ölçümünde Sınıfıçı ve Sınıflararası Korelasyon Katsayıları, 2017 - 2018
- AKTAŞ ALTUNAY S., YILMAZ A. E., Project Supported by Higher Education Institutions, Sıralanabilir Ölçeklerde Ayırt Edilebilirlik Derecesi ve Uyumun Ölçülmesi, 2017 - 2017
- KARADAĞ ATAŞ Ö., ALTUN G., AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, Karesel Olumsuzluk Tablolarında GenGen Etkileşimlerinin Analizi, 2017 - 2017
- AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, Sıralı Karesel Olumsuzluk Tablolarında Değerlendirici Uyumunu için Gizli Sınıflı Modeller, 2017 - 2017
- CAN C. E., AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, Bayesian Poisson-Hidden Markov Model, 2016 - 2017
- SARAÇBAŞI T., YILMAZ A. E., AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, Değerlendirici Uyumunda Gizli Sınıf Modelleri Yaklaşımı, 2016 - 2017
- YENİAY M. Ö., TURFAN D., AKTAŞ ALTUNAY S., YILMAZ A. E., Project Supported by Higher Education Institutions, Güney Afrika İstatistik Derneği, Cape Town Üniversitesi, 2016 İstatistik Konferansı, 2016 - 2017
- AKTAŞ ALTUNAY S., WU S., Project Supported by Higher Education Institutions, AÇIK UÇLU SIRALANABİLİR KATEGORİLİ KARESEL OLUMSALLIK TABLOLARINDA MARJİNAL HOMOJENLİK MODELİ, 2016 - 2017
- KARAGÖZ D., AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, POSİTİF ÇARPIK VERİLER İÇİN ÜÇGENSEL DAĞILIM TANIMI VE EĞİTİM UYGULAMASI, 2015 - 2016
- KARADAĞ ATAŞ Ö., AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, Uzun Süreli Aile Verisinin Genetik İlişki Çalışmaları için Genelleştirilmiş Tahmin Eşitlikleri, 2015 - 2015
- AKTAŞ ALTUNAY S., KARADAĞ Ö., BAHÇECİTAPAR M., Project Supported by Higher Education Institutions, EŞİT ARALIKLI OLMAYAN UZUNSÜRELİ VERİLER İÇİN İKİ DEĞİŞKENLİ KARMA MODELLERDE VARYANS KOVARYANS MATRİSİNİN BELİRLENMESİ, 2015 - 2015

## Citations

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