

## Prof. AYŞEN AKKAYA

### Personal Information

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### Education Information

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Statistics, Turkey 1989 - 1995

### Research Areas

Geotechnical, Statistics, Statistical Analysis and Applications

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2008 - Continues

### Professional Experience

Head of Department, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Statistics, 2015 - Continues

### Advising Theses

Akkaya A., DEVELOPMENT OF EARTHQUAKE MAGNITUDE CONVERSION EQUATIONS: STOCHASTIC REGRESSION VERSUS GENERAL ORTHOGONAL REGRESSION, Post Graduate, O.KINCI(Student), 2019

Akkaya A., Micro-level analysis of unregistered employment in Turkey with group comparisons, Post Graduate, M.İNER(Student), 2019

Akkaya A., MULTI-HAZARD RELIABILITY OF ELECTRIC POWER TRANSMISSION NETWORKS WITH SPATIALLY CORRELATED COMPONENTS, Post Graduate, U.ALTAY(Student), 2019

Akkaya A., Multi-criteria decision making in site selection for nuclear power plants, Post Graduate, B.TUNCER(Student), 2019

AKKAYA A., Comparison of iterative algorithms for parameter estimation in nonlinear regression, Post Graduate, G.MUSLUOĞLU(Student), 2018

YAMAN İ. Ö. , AKKAYA A., Strength assessment of Turkish cements, Post Graduate, N.İPEK(Student), 2017

AKKAYA A., Reconstruction of gene regulatory networks, Doctorate, S.BALCI(Student), 2014

BAYKAL N., AKKAYA A., A new framework for evaluation of field based academic performances of higher education institutions, Post Graduate, F.ÖMRÜZUN(Student), 2011

ŞENER C., AKKAYA A., A grid-based seismic hazard analysis application, Post Graduate, Ç.KOCAİR(Student), 2010

AKKAYA A., Robust estimation and hypothesis testing in microarray analysis, Doctorate, B.EMRE(Student), 2010

AKKAYA A., Pairwise multiple comparisons under short-tailed symmetric distribution, Post Graduate, S.BALCI(Student), 2007

AKKAYA A., Experimental design with short-tailed and long-tailed symmetric error distributions, Post Graduate, Y.ELİF(Student), 2004  
ALPASLAN F. N. , AKKAYA A., Bayesian learning under nonnormality, Post Graduate, Y.ELİF(Student), 2004  
AKKAYA A., Goodness-of-fit tests and outlier detection, Doctorate, B.SÜRÜCÜ(Student), 2003  
AKKAYA A., Applications of estimation techniques on genetic and other types of data, Post Graduate, M.ASLAN(Student), 2003  
AKKAYA A., Autoregressive models: Statistical inference and applications, Doctorate, Ö.TÜRKER(Student), 2002  
AKKAYA A., Analysis of economic data using robust methods, Post Graduate, E.ERDOĞAN(Student), 2002

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, January, 2019

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Estimating parameters in autoregressive models in non-normal situations: Asymmetric innovations**  
Akkaya A., Tiku M.  
Communications in Statistics - Theory and Methods, vol.30, pp.517-536, 2001 (Journal Indexed in SCI Expanded)

## Books & Book Chapters

- **A New Estimation Technique for AR(1) Model with Long-Tailed Symmetric Innovations**  
TÜRKER BAYRAK Ö., AKKAYA A.  
in: Contributions to Statistics: Time Series Analysis and Forecasting, Rojas Ignacio, Pomres Héctor, Valenzuela Olga, Editor, Springer, pp.39-63, 2018
- **A Comparative Study of Stochastic Models for Seismic Hazard Estimation**  
AKKAYA A., semih y.  
in: Land Based and Marine Hazards Scientific and Management Issues, El-Sabh, M.I., Venkatesh, S., Denis, H., Murty, T.S., Editor, Springer Netherlands, pp.5-24, 2016
- **Statistical Seismology Science Gateway**  
Çelebi K., AKKAYA A., ŞENER C.  
in: Science Gateways for Distributed Computing Infrastructures, , Editor, Springer International Publishing, pp.167-180, 2014
- **Estimation of Spatial Correlation of Soil Parameters Based on Data from the Texas AM University NGES**  
AKKAYA A., Vanmarcke E.  
in: Probabilistic Site Characterization at the National Geotechnical Experimentation Sites, Erik Vanmarcke, Gordon A. Fenton, Editor, ASCE Press, pp.29-40, 2003

## Refereed Congress / Symposium Publications in Proceedings

- **Estimation of AR(1) Model Having Generalized Logistic Disturbances**  
AKKAYA A., TÜRKER BAYRAK Ö.  
11. International Statistics Congress- ISC- 2019, Turkey, 4 - 08 October 2019

## Supported Projects

Akkaya A., TUBITAK Project, Elemanları Arasında Mekansal Korelasyon Bulunan Elektrik İletim Ağlarının Çok Boyutlu Tehlike Altındaki Güvenirligi, 2018 - 2019

ÇAKIR M. P. , ALAŞEHİR O., ÖMRÜUZUN F., AKKAYA A., BARIŞ B. T. , ACARTÜRK C., KOÇAK M., Project Supported by Higher Education Institutions, DÜNYA VE TÜRKİYE ÜNİVERSİTELERİ AKADEMİK PERFORMANSLARININ GENEL BAŞARI KRİTERLERİNE GÖRE VE ALANLAR ÖZELİNDE İNCELENMESİ, 2015 - 2017

KALAYLIOĞLU AKYILDIZ Z. I. , AKKAYA A., ÜNLÜ K., Project Supported by Higher Education Institutions, ODTÜ Kampüsünde Çöp Toplama Sistemi Dışında Kalan Evsel Katı Atıkların Analizi ve Çözüm Önerileri, 2016 - 2016

BAYKAL N., ÇAKIR M. P. , Ömrüzun F., AKKAYA A., GÜREL KÖYBAŞI N. A. , BARIŞ B. T. , ACARTÜRK C., Koçak M., Project Supported by Higher Education Institutions, Dünya Üniversiteleri Akademik Performanslarının İncelenmesi., 2012 - 2014

## Scientific Refereeing

Journal Of Applied Statistics, SCI Journal, January 2019

## Citations

Total Citations (WOS):129

h-index (WOS):6