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Education Information

Doctorate, Ankara University, Sosyal Bilimler Enstitüsü, Bölgesel Coğrafya (Dr), Turkey 2009 - 2014

Postgraduate, Ankara University, Sosyal Bilimler Enstitüsü, Bölgesel Coğrafya (YI) (Tezli), Turkey 2004 - 2009

Undergraduate, Ankara University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1998 - 2002

Dissertations

Doctorate, Türkiye'xxde Yıllık Ortalama Toplam Yağışın Kriging Yöntemiyle Belirlenmesi, Ankara University, Sosyal Bilimler Enstitüsü, Bölgesel Coğrafya (Dr), 2014

Postgraduate, Ankara şehrinin fiziksel gelişiminin coğrafi bilgi sistemleri (CBS) ve uzaktan algılama (UA) teknikleri ile analizi, Ankara University, Sosyal Bilimler Enstitüsü, Bölgesel Coğrafya (YI) (Tezli), 2009

Academic Titles / Tasks

Associate Professor, Ankara University, Dil ve Tarih-Coğrafya Fakültesi, Coğrafya Bölümü, 2024 - Continues

Assistant Professor, Ankara University, Dil ve Tarih-Coğrafya Fakültesi, Coğrafya Bölümü, 2015 - 2024

Research Assistant, Ankara University, Dil ve Tarih-Coğrafya Fakültesi, Coğrafya Bölümü, 2005 - 2015

Research Assistant, Harvard University, Institute For Quantitative Social Science, Center For Geographic Analysis, 2006 - 2008

Research Assistant, Ludwig-Maximilians-Universitaet München, Faculty Of Geoscience, Geography, 2006 - 2007

Academic and Administrative Experience

Ankara University, 2015 - Continues

University Executive Board Member, Ankara University, 2017 - 2021

Courses

TEZ ÇALIŞMASI, Doctorate, 2018 - 2019

UZMANLIK ALAN DERSİ, Postgraduate, 2018 - 2019

ARAŞTIRMA YÖNTEMLERİ, Postgraduate, 2018 - 2019

TEZ ÇALIŞMASI, Postgraduate, 2018 - 2019

TEMEL İSTATİSTİK I, Undergraduate, 2018 - 2019
YER KÜRE SİSTEMLERİ, Undergraduate, 2018 - 2019
UZMANLIK ALAN DERSİ, Doctorate, 2018 - 2019

Advising Theses

AYDIN O., Doğu Karadeniz Havzası'ndaki Taşkınların Hidrolojik Modelleme Yöntemiyle (HEC-HMS) Belirlenmesi, Postgraduate, T.ERGÜL(Student), 2020
AYDIN O., Şehir taşkın modellemesi: Bodrum örneği, Postgraduate, N.BEGUM(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Spatial-temporal analysis of precipitation characteristics in Artvin, Turkey**
Aydin O., Raja N. B.
Theoretical and Applied Climatology, vol.142, no.1-2, pp.729-741, 2020 (SCI-Expanded)
- II. **A reconstruction of Turkey's potential natural vegetation using climate indicators**
Raja N. B., AYDIN O., ÇİÇEK İ., TÜRKOĞLU N.
JOURNAL OF FORESTRY RESEARCH, vol.30, no.6, pp.2199-2211, 2019 (SCI-Expanded)
- III. **Regionalization of precipitation in Mauritius: a statistical approach**
Raja N. B., AYDIN O.
METEOROLOGICAL APPLICATIONS, vol.26, no.4, pp.711-719, 2019 (SCI-Expanded)
- IV. **Trend analysis of annual precipitation of Mauritius for the period 1981-2010**
Raja N. B., AYDIN O.
METEOROLOGY AND ATMOSPHERIC PHYSICS, vol.131, no.4, pp.789-805, 2019 (SCI-Expanded)
- V. **Space-time kriging of precipitation variability in Turkey for the period 1976-2010**
Raja N. B., AYDIN O., TÜRKOĞLU N., ÇİÇEK İ.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.129, no.1-2, pp.293-304, 2017 (SCI-Expanded)
- VI. **Landslide susceptibility mapping of the Sera River Basin using logistic regression model**
Raja N. B., ÇİÇEK İ., TÜRKOĞLU N., AYDIN O., Kawasaki A.
NATURAL HAZARDS, vol.85, no.3, pp.1323-1346, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Using artificial neural networks for predicting flood events in Artvin, Türkiye**
Aydın O., Raja N. B.
Turkish Journal of Engineering, vol.9, no.2, pp.189-201, 2025 (Scopus)
- II. **Temporal Shoreline Changes From 1984 to 2022 Along Beymelek Beach and Beymelek Lagoon, Antalya, Türkiye**
KILAR H., AYDIN O.
Jeomorfolojik Araştırmalar Dergisi (Online), no.13, pp.40-51, 2024 (Peer-Reviewed Journal)
- III. **Landslide Susceptibility Analysis of Surrounding of Sera Lake by Fuzzy Logic Method**
Aydın O., Raja N.
Afet ve Risk Dergisi, vol.7, no.2, pp.441-456, 2024 (Peer-Reviewed Journal)
- IV. **Applying the Kalman Filter Model to Forecast Shoreline Positions: A Case Study in Şile, İstanbul**
Kılar H., Aydın O.
Türk Coğrafya Dergisi, no.85, pp.47-53, 2024 (Peer-Reviewed Journal)
- V. **Characterising the Seasonal Variations and Spatial Distribution of Ambient PM10 in Urban Ankara, Turkey**

- Raja N. B., AYDIN O., TÜRKOĞLU N., ÇİÇEK İ.
ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL, vol.5, no.2, pp.349-362, 2018 (ESCI)
- VI. **Evaluation of Kriging with External Drift Method in Spatial Modelling of Precipitation: A Case of Aegean Region, Turkey**
AYDIN O.
Dumlupınar Üniversitesi Sosyal Bilimler Dergisi, vol.56, no.2, pp.1-18, 2018 (Peer-Reviewed Journal)
- VII. **Spatial Distribution and Modelling of the Total Fertility Rate in Turkey Using Spatial Data Analysis Techniques**
AYDIN O., Aslantas Bostan P., Ozgur E. M.
JOURNAL OF GEOGRAPHY-COĞRAFYA DERGISI, no.37, pp.27-45, 2018 (ESCI)
- VIII. **Türkiye’de Su Kıtlığının Mekânsal Ölçekte Değerlendirilmesi**
Aydın O., Eser Ünalı Ü., Duman N., Çiçek İ., Türkoğlu N.
Türk Coğrafya Dergisi, vol.68, pp.11-18, 2017 (Peer-Reviewed Journal)
- IX. **Yağışın Mekansal Dağılımında Deterministik ve Stokastik Yöntemler:Mauritius Örneği Doğu Afrika**
Aydın O., Raja N. B.
Coğrafi Bilimler Dergisi, vol.14, no.1, pp.1-14, 2016 (Peer-Reviewed Journal)
- X. **Türkiye de Yağışın Farklı Mekânsal Enterpolasyon Yöntemleriyle Karşılaştırılması**
Türkoğlu N., Aydın O., Duman N., Çiçek İ.
Journal of Human Sciences, vol.13, no.3, 2016 (Peer-Reviewed Journal)
- XI. **Karmaşık Kent Sistemi Kentsel Büyüme Kavramlarının Anlaşılması ve Kent Modelleme Teknikleri**
AYDIN O.
Türk Coğrafya Dergisi, vol.64, pp.51-60, 2015 (Peer-Reviewed Journal)
- XII. **Fiziki Coğrafyada Jeostatistikın Önemi**
AYDIN O., TÜRKOĞLU N., ÇİÇEK İ.
Uluslararası İnsan Bilimleri Dergisi, vol.12, no.2, pp.1397-1415, 2015 (Peer-Reviewed Journal)
- XIII. **Ege Bölgesi’nde Yağışın Mekânsal Dağılımı**
AYDIN O., TÜRKOĞLU N., ÇİÇEK İ.
Coğrafi Bilimler Dergisi, vol.11, no.2, pp.101-120, 2013 (Peer-Reviewed Journal)
- XIV. **Spatial Patterns of Marriage Migration in Turkey**
ÖZGÜR E. M., AYDIN O.
Marriage and Family Review, vol.48, no.5, pp.418-442, 2012 (Scopus)
- XV. **Türkiye’de Evlilik Göçünün Mekânsal Veri Analizi Teknikleriyle Değerlendirilmesi**
Özgür E. M., Aydın O.
Coğrafi Bilimler Dergisi, vol.9, no.1, pp.29-40, 2011 (Peer-Reviewed Journal)
- XVI. **CBS Temelli Hücresel Otomata Yöntemiyle Kentsel Büyüme Modeli Ankara Örneği**
AYDIN O.
Coğrafi Bilimler Dergisi, vol.9, no.2, pp.135-157, 2011 (Peer-Reviewed Journal)
- XVII. **Türkiye de kadın evlilik göçü**
ÖZGÜR E. M., AYDIN O.
e-Journal of New World Sciences Academy, vol.5, no.1, pp.18-31, 2010 (Peer-Reviewed Journal)
- XVIII. **Ankara nın kentsel gelişiminin uzaktan algılama ve coğrafi bilgi sistemleriyle ölçülmesi**
AYDIN O., ÖZGÜR E. M.
e-Journal of New World Sciences Academy, vol.4, no.4, pp.215-242, 2009 (Peer-Reviewed Journal)
- XIX. **Computing excavated volume in a road project using GIS programs A case study from Şırnak Turkey**
DOĞAN A., AYDIN O., YANALAK M., YUSUF GÖKHAN A.
Geosound Yerbilimleri Dergisi, vol.50, pp.1-11, 2007 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **NYSA COĞRAFYASI VE BÖLGENİN JEOLJİK-TEKTONİK ÖZELLİKLERİ**

AYDIN O.

in: ÇİFT YAKALI KENT NYSA, ÖZTANER SERDAR HAKAN, Editor, TÜRKİYE İŞ BANKASI KÜLTÜR YAYINLARI, İstanbul, pp.427-436, 2022

II. Hidrografya Özellikleri

AYDIN O.

in: Memleket Pusulası Nevşehir, İhsan Çiçek, Editor, Eski Babil Yayınları, pp.27-47, 2019

III. Geostatistics For Conserving Marine Species

AYDIN O., KABA E., KAVASAKI A.

in: Research Reviews in Science and Mathematics, Prof. Dr. Rıdvan KARAPINAR, Editor, GECE KİTAPLIĞI, Ankara, pp.5-22, 2019

IV. Klimatoloji Çalışmalarında CBS Kullanımı

YILMAZ E., AYDIN O., ÇİÇEK İ.

in: Coğrafya Araştırmalarında Coğrafi Bilgi Sistemleri Uygulamaları, Akköprü, Ebru Döker, Mehmet Fatih, Editor, Pegem Akademi, Ankara, pp.29-56, 2019

V. New Approaches To Flash Flood Forecasting In The Mediterranean Region

RAJA N. B., AYDIN O.

Lambert Academic Publishing, Saarbrücken, 2017

VI. Geostatistical Interpolation of Precipitation in Turkey

AYDIN O., ÇİÇEK İ.

Lambert Academic Publishing, Saarbrücken, 2015

Refereed Congress / Symposium Publications in Proceedings

I. YAPAY ZEKA İLE YAĞIŞ TAHMİN ÇALIŞMALARI: BİBLİYOMETRİK ANALİZ

AYDIN O., KILAR H.

11. TÜRKİYE KUVATERNER SEMPOZYUMU, İstanbul, Turkey, 06 November 2024, pp.38-39

II. YAPAY ZEKA İLE DEPREM TAHMİNİ: KAHRAMANMARAŞ DEPREMİ VE ETKİLERİ ÜZERİNE İNCELEMELER

AYDIN O., Ardıç S., KILAR H.

11. TÜRKİYE KUVATERNER SEMPOZYUMU, İstanbul, Turkey, 06 November 2024, pp.84-85

III. BULANIK MANTIK YÖNTEMİYLE HEYELAN DUYARLILIK ANALİZİ ÖRNEĞİ: SERA GÖLÜ VE ÇEVRESİ

AYDIN O., RAJA N. B.

1st Istanbul International Geography Congress, İstanbul, Turkey, 20 June 2019

IV. Using artificial neural network method for modelling precipitation-runoff: the case of Artvin

AYDIN O., RAJA N. B.

International Geography Symposium on the 30th Anniversary of TUCAUM, Ankara, Turkey, 3 - 06 November 2018

V. Spatial and temporal characteristics of precipitation events in Artvin city

AYDIN O., RAJA N. B.

International Congress on the 75th Anniversary of Turkish Geographical Society, Ankara, Turkey, 8 - 10 November 2017

VI. Modelling particulate matter (PM10) and sulphur dioxide (SO2) concentrations in urban Ankara using climate parameters

AYDIN O., RAJA N. B.

International Symposium on GIS Applications in GeographyGeosciences, Çanakkale, Turkey, 18 - 21 October 2017

VII. A statistical analysis of regional precipitation in Mauritius

RAJA N. B., AYDIN O.

International Symposium on GIS Applications in GeographyGeosciences, Çanakkale, Turkey, 18 - 21 October 2017

VIII. ESTIMATION OF WATER SCARCITY IN BASINS OF TURKEY

AYDIN O., ÇİÇEK İ., TÜRKÖĞLU N., Eser Ünalı Ü., DUMAN N.

Conference of the International Journal of Arts & Sciences, 28 June - 01 July 2016

- IX. **Ankara da Hava Kirliliğinin Mekânsal zamansal Analizi**
AYDIN O., RAJA N. B., TÜRKOĞLU N., ÇİÇEK İ.
TÜCAUM Uluslararası Coğrafya Sempozyumu, 13 - 14 October 2016, pp.914-915
- X. **Urban flood modelling the case of Bodrum**
RAJA N. B., AYDIN O.
International Geography Symposium, Ankara, Turkey, 13 - 14 October 2016
- XI. **SPATIAL MODELLING OF THE PRECIPITATION IN TURKEY A GEOSTATISTICAL APPROACH**
AYDIN O., TÜRKOĞLU N., ÇİÇEK İ., DUMAN N.
Conference of the International Journal of Arts & Sciences, 28 June - 01 July 2016
- XII. **Ankara da kentsel mekanın değişimi**
AYDIN O.
Ankara Kenti'xxnin Coğrafyası ve Ankara Üniversitesi, Ankara, Turkey, 13 January - 13 June 2016
- XIII. **Relationship of Temperature Trends and Urban Population Growth in Turkey**
DUMAN N., ÇİÇEK İ., AYDIN O.
2016 IGU Comb Annual Conference The Mediterranean sustainability between climate change and human mobility,
1 - 04 June 2016, pp.35-37
- XIV. **Relationship of Temperature Trends and Urban Population Growth in Turkey**
ÇİÇEK İ., DUMAN N., AYDIN O.
International Geographical Union, Commusion of the Mediterranean Basin (COMB), Antalya, Turkey, 1 - 04 June
2016
- XV. **Using Spatiotemporal Kriging for Interpolating Extreme Precipitation Events in Turkey Case Study of
the Flash Flood Event of the 22 23 September 2015 in Bodrum the Muğla Province**
AYDIN O., RAJA N. B.
International Geographical Union, Commusion of the Mediterranean Basin (COMB), Antalya, Turkey, 1 - 04 June
2016
- XVI. **Application of geostatistical methods for determining annual mean total precipitation in Turkey**
AYDIN O.
GIS Colloguium, Boston, United States Of America, 26 March 2015
- XVII. **Locating of the Ore Bearing Zebra Dolomites by Using Landsat 7 ETM and Quickbird Satellite Data in
Hinzir Mountain, Kayseri, Turkey**
AYDAL D., POLAT O., USLU İ., USLU A.
The Third International Conference on the Geology of Tethys, 8 - 11 January 2008, pp.217-226
- XVIII. **Volume Calculation of The Excavated Areas with the Help of GIS Programs in Open Mined Pits and
Road Projects Example from Şırnak City Turkey**
DOĞAN A., AYDIN O.
57th. Geological Congress of Turkey, Ankara, Turkey, 8 - 12 March 2004
- XIX. **Definition of the Base Metal and Gold Bearing Hydrothermally Altered Areas in Volcanic Rocks by
Using Landsat 7 TM Imagery Case Study from Bayramiç Çanakkale**
DOĞAN A., VURAL A., AYDIN O.
57th. Geological Congress of Turkey, Ankara, Turkey, 8 - 12 March 2004
- XX. **Determiation of the Granitoid Originated Porphyry Copper Enrichments by Using Landsat 7 TM
Imagery Case Study from Malatya Elazığ**
DOĞAN A., ÖZCAN D., AYDIN O.
57th. Geological Congress of Turkey, Ankara, Turkey, 8 - 12 March 2004
- XXI. **The Importance of GIS RS Technics in Determning Controlling and Redrawing Lithological
Boundaries and Tectonic Lines Case Study Area From Adana Çiftethan to Kemerhisar Çamardı Niğde**
DOĞAN A., AYDIN O.
57th. Geological Congress of Turkey, Ankara, Turkey, 8 - 12 March 2004
- XXII. **Cross examination of the Drainage Systems with the Lithological and Tectonic Data by using Landsat
TM imagery in RS GIS Enviroment Case study from Nigde and Hatay Cities Turkey**
DOĞAN A., AYDIN O., ALTAŞ M.

10 th Anniversary of Mersin University Geological Congress, Mersin, Turkey, 12 - 15 October 2003

XXIII. The Importance of GIS RS Techniques in Controlling Geological Maps and Mining Site Investigation in Kızıldağ Ophiolites Hatay Turkey

DOĞAN A., AYDIN O., ALTAŞ M.

10th Anniversary of Mersin University Geological Congress, Mersin, Turkey, 12 - 15 October 2003

XXIV. Investigation of the Auriferous Sulphide Mineralization and Surrounded Altered Areas by Using Landsat TM 7 imagery Case Study from Kisecik Village Hatay Turkey

DOĞAN A., İZZET A., AYDIN O.

56.th. Turkish Geological Congress, Ankara, Turkey, 14 - 20 April 2003

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