

## Prof. COŞKUN ÖZKAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAM-2592-2021

ScopusID: 56265996700

Yoksis Researcher ID: 11409

### Education Information

Doctorate, Istanbul Technical University, İnşaat, Geomatik, Turkey 1998 - 2002

Postgraduate, Istanbul Technical University, İnşaat, Geomatik, Turkey 1996 - 1998

### Dissertations

Doctorate, Uydu Görüntü Verisinin Yapay Sinir Ağları ile Sınıflandırılması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Geomatik, 2002

Postgraduate, Uzaktan Algılama Verileriyle Orman Yangını Analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Geomatik, 1998

### Research Areas

Geotechnical Engineering, Remote sensing, Image Processing, Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Fuzzy Sets and Systems, Neural Networks, Engineering and Technology

### Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, Harita Mühendisliği, 2012 - Continues

### Academic and Administrative Experience

Erciyes University, 2003 - Continues

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

1. **The impact of impervious surface, vegetation, and soil areas on land surface temperatures in a semi-arid region using Landsat satellite images enriched with Ndaisi method data**

Kesikoglu M. H., ÖZKAN C., KAYNAK T.

ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.193, no.3, 2021 (SCI-Expanded)

- II. **Performance of ANN, SVM and MLH techniques for land use/cover change detection at Sultan Marshes wetland, Turkey**  
Kesikoglu M. H., ATASEVER Ü. H., Dadaser-Celik F., ÖZKAN C.  
WATER SCIENCE AND TECHNOLOGY, vol.80, no.3, pp.466-477, 2019 (SCI-Expanded)
- III. **A New SEBAL Approach Modified with Backtracking Search Algorithm for Actual Evapotranspiration Mapping and On-Site Application**  
ATASEVER Ü. H., ÖZKAN C.  
JOURNAL OF THE INDIAN SOCIETY OF REMOTE SENSING, vol.46, no.8, pp.1213-1222, 2018 (SCI-Expanded)
- IV. **A NEW ARTIFICIAL INTELLIGENCE OPTIMIZATION METHOD FOR PCA BASED UNSUPERVISED CHANGE DETECTION OF REMOTE SENSING IMAGE DATA**  
ATASEVER Ü. H., KESİKOĞLU M. H., ÖZKAN C.  
NEURAL NETWORK WORLD, vol.26, no.2, pp.141-154, 2016 (SCI-Expanded)
- V. **Animation-based learning of map projections in geomatics engineering**  
BEŞDOK E., Geymen A., ÖZKAN C., Palancıoğlu H. M.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.20, no.4, pp.666-672, 2012 (SCI-Expanded)
- VI. **Modeling discharge-sediment relationship using neural networks with artificial bee colony algorithm**  
KİSİ O., ÖZKAN C., AKAY B.  
JOURNAL OF HYDROLOGY, vol.428, pp.94-103, 2012 (SCI-Expanded)
- VII. **Neural networks with artificial bee colony algorithm for modeling daily reference evapotranspiration**  
ÖZKAN C., KİSİ O., AKAY B.  
IRRIGATION SCIENCE, vol.29, no.6, pp.431-441, 2011 (SCI-Expanded)
- VIII. **THE ARTIFICIAL BEE COLONY ALGORITHM IN TRAINING ARTIFICIAL NEURAL NETWORK FOR OIL SPILL DETECTION**  
ÖZKAN C., ÖZTÜRK C., Sunar F., KARABOĞA D.  
NEURAL NETWORK WORLD, vol.21, no.6, pp.473-492, 2011 (SCI-Expanded)
- IX. **ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM (ANFIS) BASED LOCAL ORDINARY KRIGING ALGORITHM FOR SCATTERED DATA INTERPOLATION**  
Ozkan C.  
SURVEY REVIEW, vol.41, no.314, pp.395-407, 2009 (SCI-Expanded)
- X. **Modeling forest productivity using envisat MERIS data**  
Berberoglu S., Evrendilek F., Ozkan C., Donmez C.  
SENSORS, vol.7, no.10, pp.2115-2127, 2007 (SCI-Expanded)
- XI. **Surface interpolation by adaptive Neuro-Fuzzy Inference System based local Ordinary Kriging**  
Ozkan C.  
COMPUTER VISION - ACCV 2006, PT I, vol.3851, pp.196-205, 2006 (SCI-Expanded)
- XII. **Comparing feature extraction techniques for urban land-use classification**  
Ozkan C., Erbek F.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.26, no.4, pp.747-757, 2005 (SCI-Expanded)
- XIII. **Comparison of maximum likelihood classification method with supervised artificial neural network algorithms for land use activities**  
Erbek F., Ozkan C., Taberner M.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.25, no.9, pp.1733-1748, 2004 (SCI-Expanded)
- XIV. **Mapping and monitoring of coastal wetlands of Cukurova Delta in the Eastern Mediterranean region**  
Berberoglu S., Yilmaz K., Ozkan C.  
BIODIVERSITY AND CONSERVATION, vol.13, no.3, pp.615-633, 2004 (SCI-Expanded)
- XV. **The Comparison of Activation Functions for Multispectral Landsat TM Image Classification**  
ÖZKAN C., Sunar A. F.  
Photogrammetric Engineering and Remote Sensing, vol.69, no.11, pp.1225-1234, 2003 (SCI-Expanded)

## XVI. Forest fire analysis with remote sensing data

Sunar A. F., Ozkan C.

INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.22, no.12, pp.2265-2277, 2001 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Mapping of Actual Evapotranspiration Using the SEBAL Technique and Landsat 8 Satellite Imagery: The Case of Kayseri**  
Atasever Ü. H., Çobaner M., Çetin M., Özkan C., İnan H.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.7, no.2, pp.234-246, 2016 (Peer-Reviewed Journal)
- II. **Kamera Kalibrasyonunda Zeki Optimizasyon Tekniklerinin Etkinliği**  
ÖZKAN C., BENDEŞ E.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.36, no.4, pp.340-350, 2010 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Spektral Dönüşümler, Mekansal Dönüşümler**  
Özkan C.  
in: Dijital Görüntü İşleme, Prof.Dr.Filiz Sunar, Editor, Anadolu Üniversitesi Açıköğretim Fakültesi, Eskişehir, pp.35-91, 2017
- II. **Isıl Uzaktan Algılama, Sınıflandırma, Dijital Görüntü İşleme**  
ÖZKAN C.  
in: Uzaktan Algılama, Sunar F., Editor, Anadolu Üniversitesi Açıköğretim Fakültesi, Eskişehir, pp.46-177, 2011

## Refereed Congress / Symposium Publications in Proceedings

- I. **The Determination of Coastline Change Using Support Vector Machine in Berdan Dam Lake, Turkey**  
KAYNAK T., ÇİÇEKLİ S. Y., KESİKOĞLU M. H., ÖZKAN C.  
2nd International Conference on Engineering Technology and Innovation (ICETI), Budapest, Hungary, 7 - 11 March 2018
- II. **The determination of coastline changes using artificial neural networks in Yamula Dam Lake, Turkey**  
KESİKOĞLU M. H., Cicekli S. Y., Kaynak T., ÖZKAN C.  
8th International Conference on Information Technology, ICIT 2017, Amman, Jordan, 17 - 18 May 2017, pp.737-740
- III. **A New SEBAL Approach Modified with Back-Tracking Search Algorithm for Actual Evapotranspiration Mapping and Field Application**  
Atasever Ü. H., Özkan C.  
VI. Uzaktan Algılama ve CBS Sempozyumu, Adana, Turkey, 5 - 07 October 2016, pp.182-193
- IV. **THE USAGE OF RUSBOOST BOOSTING METHOD FOR CLASSIFICATION OF IMPERVIOUS SURFACES**  
KESİKOĞLU M. H., ATASEVER Ü. H., ÖZKAN C., BEŞDOK E.  
23rd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing (ISPRS), Prague, Czech Republic, 12 - 19 July 2016, pp.981-985
- V. **Actual Evapotranspiration Mapping Using Sebal Technique and Landsat 8 Satellite Image: The Case of Kayseri**  
Atasever Ü. H., Çobaner M., Çetin M., Özkan C., İnan H.  
VIII. Ulusal Hidroloji Kongresi, Şanlıurfa, Turkey, 8 - 10 September 2015
- VI. **İnsansız Hava Araçları ile Sayısal Arazi Modeli Üretimi**

- KARKINLI A. E., KESİKOĞLU A., KESİKOĞLU M. H., ATASEVER Ü. H., ÖZKAN C., ÇİVİCİOĞLU BEŞDOK P., BEŞDOK E.  
TUFUAB VIII. Teknik Sempozyumu, Turkey, 21 - 23 May 2015
- VII. **Sultan Sazlığı Milli Parkı Ramsar Bölgesi Arazi Örtüsünün Belirlenmesi Boosting Sınıflandırma Yaklaşımı**  
KESİKOĞLU M. H., ATASEVER Ü. H., KESİKOĞLU A., KARKINLI A. E., ÖZKAN C., BEŞDOK E.  
TÜRKİYE ULUSAL FOTOGRAMETRİ Ve UZAKTAN ALGILAMA BİRLİĞİ (TUFUAB) VIII.SEMPOZYUMU, Turkey, 21 - 23 May 2015
- VIII. **A New Change Detection Approach Based On Backtracking Search Optimization (BSA) Algorithm And Difference Image Combination For Optical Imagery**  
Atasever Ü. H., Çivicioğlu Beşdok P., Beşdok E., Özkan C.  
V. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, İstanbul, Turkey, 14 - 17 October 2014
- IX. **Optik Görüntüler için Geri-İzleme Arama Optimizasyon Algoritması (BSA) ve Fark Görüntüsü Kombinasyonu Tabanlı Yeni Bir Değişim Saptama Yaklaşımı**  
ATASEVER Ü. H., ÇİVİCİOĞLU BEŞDOK P., BEŞDOK E., ÖZKAN C.  
V. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, UZAL CBS 2014, İstanbul, Turkey, 14 - 17 October 2014
- X. **A New Unsupervised Change Detection Approach Based on Dwt Image Fusion and Backtracking Search Optimization Algorithm for Optical Remote Sensing Data**  
ATASEVER Ü. H., ÇİVİCİOĞLU BEŞDOK P., BEŞDOK E., ÖZKAN C.  
Mid-term Symposium of ISPRS Technical Commission VII "Thematic Processing, Modeling and Analysis of Remotely Sensed Data", İstanbul, Turkey, 29 September - 02 October 2014, pp.15-18
- XI. **Performance Comparison Of Evolutionary Algorithms For Image Clustering**  
ÇİVİCİOĞLU BEŞDOK P., ATASEVER Ü. H., ÖZKAN C., BEŞDOK E., KARKINLI A. E., KESİKOĞLU A.  
Mid-term Symposium of ISPRS Technical Commission VII "Thematic Processing, Modeling and Analysis of Remotely Sensed Data", İstanbul, Turkey, 29 September - 02 October 2014, pp.71-74
- XII. **Change Detection In Satellite Images Using Fuzzy C-Means Clustering And Principal Component Analysis**  
Kesikoğlu M. H., Atasever Ü. H., Özkan C.  
ISPRS Conference on "Serving Society with Geoinformatics", Antalya, Turkey, 1 - 04 December 2013, pp.129-132
- XIII. **UNSUPERVISED CHANGE DETECTION IN SATELLITE IMAGES USING FUZZY C-MEANS CLUSTERING AND PRINCIPAL COMPONENT ANALYSIS**  
KESİKOĞLU M. H., ATASEVER Ü. H., ÖZKAN C.  
ISPRS Conference on Serving Society with Geoinformatics (SSG), Antalya, Turkey, 11 - 17 November 2013, pp.129-132
- XIV. **Uzaktan Algılamada Kontrolsüz Değişim Belirleme**  
KESİKOĞLU M. H., ATASEVER Ü. H., ÖZKAN C.  
14. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 14 - 17 May 2013, no.0
- XV. **EVAMAPPER: A NOVEL MATLAB TOOLBOX FOR EVAPOTRANSPIRATION MAPPING**  
ATASEVER Ü. H., KESİKOĞLU M. H., ÖZKAN C.  
ISPRS Conference on Serving Society with Geoinformatics (SSG), Antalya, Turkey, 11 - 17 November 2013, pp.23-26
- XVI. **COMPARISON OF SEMI-AUTOMATIC AND AUTOMATIC SLICK DETECTION ALGORITHMS FOR JIYEH POWER STATION OIL SPILL, LEBANON**  
Osmanoglu B., ÖZKAN C., Sunar A. F.  
ISPRS Conference on Serving Society with Geoinformatics (SSG), Antalya, Turkey, 11 - 17 November 2013, pp.189-193
- XVII. **The Use of Bagged Decision Trees Method in Determining Land Cover**  
Atasever Ü. H., Özkan C.  
IV. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Zonguldak, Turkey, 16 - 19 October 2012
- XVIII. **The Use of Bagged-Decision Tree Method For Determination Of Land Cover**  
Atasever Ü. H., Özkan C.

- IV. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu 2012, Zonguldak, Turkey, 1 - 04 October 2012
- XIX. The Usage of Support Vector Machines and Random Forest Method in Determination of Oil Spills**  
Atasever Ü. H., Özkan C., Sunar F.  
IV. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu 2012, Zonguldak, Turkey, 1 - 04 October 2012
- XX. Automatic calculation of oil slick area from multiple sar acquisitions for deepwater horizon oil spill**  
Osmanoğlu B., ÖZKAN C., Sunar A. F., Staples G.  
22nd Congress of the International Society for Photogrammetry and Remote Sensing, ISPRS 2012, Melbourne, Australia, 25 August - 01 September 2012, vol.39, pp.63-66
- XXI. Testing the generalization efficiency of oil slick classification algorithm using multiple sar data for deepwater horizon oil spill**  
ÖZKAN C., Osmanoglu B., Sunar A. F., Staples G., Kalkan K., BALIK ŞANLI F.  
22nd Congress of the International Society for Photogrammetry and Remote Sensing, ISPRS 2012, Melbourne, Australia, 25 August - 01 September 2012, vol.39, pp.67-72
- XXII. The Use of Artificial Intelligence Optimization Algorithms In Unsupervised Classification**  
ATASEVER Ü. H., Özkan C., Sunar F.  
31th EARSeL Symposium, Czech Republic, 1 - 04 June 2011
- XXIII. The Use Of Differential Evolution Algorithm In Unsupervised Classification**  
Atasever Ü. H., Özkan C., Sunar F.  
Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu 2010, Kocaeli, Turkey, 1 - 04 December 2010, pp.182-189
- XXIV. Kontrolsüz Siniflendirmede Diferansiyel Gelişim Algoritmasının Kullanımı**  
ATASEVER Ü. H., ÖZKAN C., SUNAR A. F.  
III. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu 2010, Kocaeli, Turkey, 11 - 13 October 2010, pp.182-189
- XXV. Post-Fire Evaluation Using SPOT 4 Satellite Images**  
Sunar A. F., Esemen K., ÖZKAN C.  
29th EARSeL Symposium, Chania, Greece, 15 - 18 June 2009, pp.404-411
- XXVI. Oil-spill detection using generalized linear model and genetic algorithm: A case study in Lebanon**  
ÖZKAN C., Sunar A. F.  
28th European-Association-of-Remote-Sensing-Laboratories (EARSeL) Symposium and Workshops on Remote Sensing for a Changing Europe, İstanbul, Turkey, 2 - 05 June 2008, pp.180-187
- XXVII. Direk Lineer Transformasyon Yönteminde Yapay Zeka Tekniklerinin Uygulanması**  
BENDEŞ E., ÖZKAN C.  
UZAKTAN ALGILAMA VE COĞRAFİ BİLGİ SİSTEMLERİ SEMPOZYUMU (Uzalcsb2008), Kayseri, Turkey, 1 - 04 October 2008, pp.1-9
- XXVIII. Effectiveness of boosting algorithms in forest fire classification**  
ÖZKAN C., Sunar A. F., BERBEROĞLU S., DÖNMEZ C.  
21st Congress of the International Society for Photogrammetry and Remote Sensing, ISPRS 2008, Beijing, China, 3 - 11 July 2008, vol.37, pp.625-630
- XXIX. Percent tree cover mapping from Envisat MERIS and MODIS data**  
BERBEROĞLU S., DÖNMEZ C., ÖZKAN C., Sunar A. F.  
21st International Congress for Photogrammetry and Remote Sensing, ISPRS 2008, Beijing, China, 3 - 11 July 2008, vol.37, pp.1115-1120
- XXX. Surface interpolation by adaptive neuro-fuzzy inference system based local ordinary kriging**  
ÖZKAN C.  
7th Asian Conference on Computer Vision, ACCV 2006, Hyderabad, India, 13 - 16 January 2006, pp.196-205
- XXXI. Geometric accuracy of high-resolution data for urban planning**  
Yaşa F., Sunar A. F., Ulubay A., ÖZKAN C.  
20th ISPRS Congress on Technical Commission VII, İstanbul, Turkey, 12 - 23 July 2004, vol.35, pp.1017-1021
- XXXII. Rectification of remotely sensed images with artificial neural network**  
Sunar A. F., ÖZKAN C.

## Supported Projects

- ÖZKAN C., ÇETİN M., İNAN H., ÇOBANER M., TUBITAK Project, Landsat 8 Verileri Kullanarak Diferansiyel Arama Algoritması ile Modifiye Edilmiş Yeni Bir Sebal Yaklaşımı Tasarımı, 2014 - 2016
- ÖZKAN C., ATASEVER Ü. H., KESİKOĞLU M. H., Project Supported by Higher Education Institutions, Uzaktan Algılamada Diferansiyel Arama Algoritması (DS) Tabanlı Yeni Bir Kontrolsüz Değişim Belirleme Yaklaşımı, 2013 - 2014
- ÖZKAN C., KESİKOĞLU M. H., Project Supported by Higher Education Institutions, Sultan Sazlığı Milli Parkı ve Ramsar Alanı Kıyı Değişiminin Uydu Görüntü Analizleriyle İncelenmesi, 2013 - 2014
- BEŞDOK E., PALANCIOĞLU H. M., ÖZKAN C., Project Supported by Higher Education Institutions, TERMAL KAMERA VE GÖRÜNTÜLEME SİSTEMİ (TERMOGRAFIK FOTOGRAFİ), 2006 - 2012
- ÖZKAN C., ATASEVER Ü. H., Project Supported by Higher Education Institutions, Uydu Görüntülerinin Sınıflandırılmasında Hızlandırma (Boosting) Destek Vektör Makineleri, Rastgele Orman (Random Forest) ve Regresyon Ağaçları Yöntemlerinin Kullanılması, 2009 - 2010
- ÖZKAN C., KIZILOK N., Project Supported by Higher Education Institutions, UZAKTAN ALGILAMANIN TOPLULAŞTIRMA PROJELERİNDEKİ KULLANIM OLANAKLARI, 2008 - 2009
- ÖZKAN C., BENDEŞ E., Project Supported by Higher Education Institutions, KAMERA KALİBRASYONUNDA ZEKİ OPTİMİZASYON YÖNTEMLERİNİN KULLANIMI, 2008 - 2009
- BEŞDOK E., ÇİVICİOĞLU BEŞDOK P., GEYMEN A., ÖZKAN C., TUBITAK Project, İnertiyel Konumlandırma Tabanlı Hareket Yakalama Arabirimi, 2007 - 2009
- EYEMEN A., ÖZKAN C., PALANCIOĞLU H. M., BEŞDOK E., Project Supported by Higher Education Institutions, ERCİYES DAĞI YÜZEY DEFORMASYONLARININ İNTERFOROMETRİK RADAR VERİLERİYLE ANALİZİ, 2007 - 2009
- BEŞDOK E., PALANCIOĞLU H. M., ÖZKAN C., Project Supported by Higher Education Institutions, GPS-INS İNTEGRASYONU VE MODEL HELİKOPTER UYGULAMASI, 2005 - 2006
- BEŞDOK E., ERDOĞAN N., ÖZKAN C., HASALTIN E., ÇİL D., PALANCIOĞLU H. M., Project Supported by Higher Education Institutions, BİOMEDİKAL NESNELERİN 3D KATI MODELLERİNİN ÇIKARTILMASI VE DEFEKT BELİRLEMEDE KULLANIMI, 2004 - 2006
- ÖZKAN C., BEŞDOK E., Project Supported by Higher Education Institutions, YÜKSEK UZAYSAL ÇÖZÜNÜRLÜKLÜ UYDU GÖRÜNTÜ VERİSİYLE KENT BİLGİ SİSTEMİNİN OLUŞTURULMASI, 2004 - 2005

## Metrics

- Publication: 52  
Citation (WoS): 437  
Citation (Scopus): 519  
H-Index (WoS): 10  
H-Index (Scopus): 9

## Non Academic Experience

- EMİ Harita  
Kadastro müdürlüğü