

## Asst. Prof. ÇİĞDEM ŞERİFOĞLU YILMAZ

### Personal Information

Office Phone: [+90 462 377 2766](tel:+904623772766)

Email: [cigdemserifoglu@ktu.edu.tr](mailto:cigdemserifoglu@ktu.edu.tr)

Web: <https://avesis.ktu.edu.tr/cigdemserifoglu>

Address: Ktü Harita Mühendisliği, 61080, Ortahisar

### International Researcher IDs

ScholarID: uC64gAgAAAAJ

ORCID: 0000-0002-9738-5124

Publons / Web Of Science ResearcherID: AAT-7884-2020

ScopusID: 57192236380

Yoksis Researcher ID: 226775

### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Harita Mühendisliği, Turkey 2016 - 2020

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Harita Mühendisliği / Uzaktan Algılama, Turkey 2014 - 2016

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Harita Mühendisliği, Turkey 2009 - 2014

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Metaheuristic Pansharpening Based on Symbiotic Organisms Search Optimization, Karadeniz Technical University, Mühendislik Fakültesi, Harita Mühendisliği, 2020

Postgraduate, İHA TABANLI 3 BOYUTLU NOKTA BULUTLARINDA ZEMİN ÜSTÜ NOKTA FİLTRELEME

ALGORİTMALARININ VE SAM ÜRETME YÖNTEMLERİNİN KARŞILAŞTIRILMASI, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Harita Mühendisliği / Uzaktan Algılama, 2016

### Research Areas

Geotechnical Engineering, Remote sensing, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Harita Mühendisliği, 2022 - Continues

Research Assistant PhD, Karadeniz Technical University, Mühendislik Fakültesi, Harita Mühendisliği, 2020 - 2022

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Harita Mühendisliği, 2015 - 2020

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

- I. **Automated detection of damaged buildings in post-disaster scenarios: a case study of Kahramanmaraş (Turkiye) earthquakes on February 6, 2023**  
ŞERİFOĞLU YILMAZ Ç., YILMAZ V., Tansey K., Aljehani N. S. O.  
NATURAL HAZARDS, no.3, pp.1247-1271, 2023 (SCI-Expanded)
- II. **A Metaheuristic Optimization-Based Solution to MTF-GLP-Based Pansharpening**  
ŞERİFOĞLU YILMAZ Ç., GÜNGÖR O.  
PFG-JOURNAL OF PHOTOGRAMMETRY REMOTE SENSING AND GEOINFORMATION SCIENCE, vol.91, no.4, pp.245-272, 2023 (SCI-Expanded)
- III. **A theoretical and practical survey of image fusion methods for multispectral pansharpening**  
Yilmaz C. S., Yilmaz V., GÜNGÖR O.  
INFORMATION FUSION, vol.79, pp.1-43, 2022 (SCI-Expanded)
- IV. **Genetic algorithm-based synthetic variable ratio image fusion**  
Yilmaz V., Yilmaz Ç., GÜNGÖR O.  
GEOCARTO INTERNATIONAL, vol.36, no.9, pp.989-1006, 2021 (SCI-Expanded)
- V. **On the use of the SOS metaheuristic algorithm in hybrid image fusion methods to achieve optimum spectral fidelity**  
Yilmaz Ç., Yilmaz V., GÜNGÖR O.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.41, no.10, pp.3993-4021, 2020 (SCI-Expanded)
- VI. **A genetic algorithm solution to the gram-schmidt image fusion**  
Yilmaz V., YILMAZ Ç., GÜNGÖR O., Shan J.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.41, no.4, pp.1458-1485, 2020 (SCI-Expanded)
- VII. **Metaheuristic pansharpening based on symbiotic organisms search optimization**  
Yilmaz Ç., Yilmaz V., GÜNGÖR O., Shan J.  
ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING, vol.158, pp.167-187, 2019 (SCI-Expanded)
- VIII. **Comparison of the performances of ground filtering algorithms and DTM generation from a UAV-based point cloud**  
YILMAZ Ç., GÜNGÖR O.  
GEOCARTO INTERNATIONAL, vol.33, no.5, pp.522-537, 2018 (SCI-Expanded)
- IX. **Image classification-based ground filtering of point clouds extracted from UAV-based aerial photos**  
Yilmaz V., Konakoglu B., ŞERİFOĞLU YILMAZ Ç., GÜNGÖR O., GÖKALP E.  
GEOCARTO INTERNATIONAL, vol.33, no.3, pp.310-320, 2018 (SCI-Expanded)
- X. **Investigating the performances of commercial and non-commercial software for ground filtering of UAV-based point clouds**  
Yilmaz Ç., Yilmaz V., GÜNGÖR O.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.39, no.15-16, pp.5016-5042, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Improving the Land Cover Mapping Accuracy of the Sentinel-2 Imagery on Google Earth Engine**  
Şerifoğlu Yılmaz Ç.  
Turkish Journal of Remote Sensing and GIS, vol.3, no.2, pp.150-159, 2022 (Peer-Reviewed Journal)
- II. **A review on pansharpening of multispectral images**  
Şerifoğlu Yılmaz Ç., Yılmaz V., Güngör O.  
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.4, pp.1340-1357, 2021 (Peer-Reviewed Journal)
- III. **The Effect of Point Density on Point Cloud Filtering Performance**  
Şerifoğlu Yılmaz Ç., Güngör O.  
Turkish Journal of Remote Sensing and GIS, vol.2, no.1, pp.41-46, 2021 (Peer-Reviewed Journal)
- IV. **Improving SVM Classification Accuracy with Image Fusion-Based Gabor Texture Features**  
Şerifoğlu Yılmaz Ç., Güngör O.

Turkish Journal of Remote Sensing and GIS, vol.1, no.1, pp.34-44, 2020 (Peer-Reviewed Journal)

**V. LAND COVER MAPPING WITH ADVANCED CLASSIFICATION ALGORITHMS**

ŞERİFOĞLU YILMAZ Ç., GÜNGÖR O., KAHRAMAN H. T.

Nature Sciences, vol.13, no.3, pp.41-50, 2018 (Peer-Reviewed Journal)

**VI. Determination of Tree Crown Diameters with Segmentation of a UAS-Based Canopy Height Model**

Yılmaz V., Yılmaz S. C., Tasci L., GÜNGÖR O.

IPSI BGD TRANSACTIONS ON INTERNET RESEARCH, vol.13, no.2, 2017 (ESCI)

**VII. Using UAS-Based Point Clouds to Generate High Resolution Digital Terrain Model for Forestry Research and Applications**

ŞERİFOĞLU YILMAZ Ç., YILMAZ V., GÜNGÖR O.

EUROPEAN JOURNAL OF FOREST ENGINEERING, vol.2, no.1, pp.35-40, 2016 (Scopus)

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

**I. ASSESSING AIR POLLUTANT EMISSIONS IN THE AFTERMATH OF THE 2021 FOREST FIRES IN MARMARIS AND MANAVGAT, TÜRKİYE: INSIGHTS FROM SATELLITE-BASED MONITORING**

ŞERİFOĞLU YILMAZ Ç.

8th International Conference on GeoInformation Advances, GeoAdvances 2024, İstanbul, Turkey, 11 - 12 January 2024, vol.48, pp.329-336

**II. ON THE USE OF TIME SERIES DATASETS THROUGH GOOGLE EARTH ENGINE TO MONITOR THE FOREST COVER LOSS IN TURKIYE BETWEEN 2001 AND 2021**

Şerifoğlu Yılmaz Ç.

International Conference on Engineering Technologies, Konya, Turkey, 17 - 19 November 2022, pp.20-24

**III. Kentsel Alanlardaki Değişimlerin Tespitinde Görüntü Kaynaştırma Yöntemlerinin Kullanımı**

Şerifoğlu Yılmaz Ç., Yılmaz V., Güngör O.

II. Uluslararası Gayrimenkul Geliştirme ve Yönetimi Konferansı, Ankara, Turkey, 30 January - 02 February 2020

**IV. A Semi-Automatic Approach to Collect Training Datasets for Ground Filtering**

Şerifoğlu Yılmaz Ç., Yılmaz V., Güngör O.

International Symposium on Applied Geoinformatics (ISAG 2019), İstanbul, Turkey, 7 - 09 November 2019, pp.285-290

**V. Investigation of Multiresolution Analysis-based Pansharpening Methods**

Yılmaz V., Şerifoğlu Yılmaz Ç., Güngör O.

International Symposium on Applied Geoinformatics (ISAG 2019), İstanbul, Turkey, 7 - 09 November 2019, pp.280-284

**VI. Investigation of Multiresolution Analysis-based Pansharpening Methods**

YILMAZ V., ŞERİFOĞLU YILMAZ Ç., GÜNGÖR O.

International Symposium on Applied Geoinformatics (ISAG2019), İstanbul, Turkey, 7 - 09 November 2019, pp.1-8

**VII. A Semi-Automatic Approach to Collect Training Datasets for Ground Filtering**

ŞERİFOĞLU YILMAZ Ç., YILMAZ V., GÜNGÖR O.

International Symposium on Applied Geoinformatics (ISAG2019), İstanbul, Turkey, 7 - 09 November 2019, pp.1-8

**VIII. Improving Hyperspectral Image Classification with Watershed Segmentation-Based Texture Features**

Şerifoğlu Yılmaz Ç., Yılmaz V., Güngör O.

2nd International Symposium on Innovative Approaches in Scientific Studies, Samsun, Turkey, 30 November - 02 December 2018, pp.1

**IX. Modified Synthetic Variable Ratio Pansharpening Method**

Yılmaz V., Şerifoğlu Yılmaz Ç., Güngör O.

2nd International Symposium on Innovative Approaches in Scientific Studies, Samsun, Turkey, 30 November - 02 December 2018, pp.1

**X. Texture Based Classification of Hyperspectral Images with Support Vector Machines Classifier**

ŞERİFOĞLU YILMAZ Ç., TUNÇ GÖRMÜŞ E., GÜNGÖR O.

INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY & GEOSCIENCES (ISGGG), Çanakkale, Turkey, 18 - 20 October 2017, pp.88

- XI. **Land Cover Mapping with Advanced Classification Algorithms**  
ŞERİFOĞLU YILMAZ Ç., GÜNGÖR O., KAHRAMAN H. T.  
International Conference on Advanced Engineering Technologies (ICADET) 2017, Bayburt, Turkey, 21 - 23 September 2017, pp.1
- XII. **Integration of Thematic Information to UAV-Based Point Clouds for Ground Filtering**  
Yılmaz V., Şerifoğlu Yılmaz Ç., Güngör O.  
International Conference on Advances and Innovations in Engineering (ICAIE) 2017, Elazığ, Turkey, 10 - 12 May 2017, pp.618-621
- XIII. **Ground Filtering of a UAV-based Point cloud with the Cloth Simulation Filtering Algorithm**  
Şerifoğlu Yılmaz Ç., Yılmaz V., Güngör O.  
International Conference on Advances and Innovations in Engineering (ICAIE) 2017, Elazığ, Turkey, 10 - 12 May 2017, pp.627-630
- XIV. **Performance Comparison of Different Interpolation Techniques in Generation of DTMs from UAV-Based Point Clouds**  
ŞERİFOĞLU YILMAZ Ç., GÜNGÖR O.  
The Selçuk International Scientific Conference On Applied Sciences - 2016, Antalya, Turkey, 27 - 30 September 2016, pp.1-6
- XV. **Performance Evaluation of Different Ground Filtering Algorithms for UAV-based Point Clouds**  
ŞERİFOĞLU Ç., GÜNGÖR O., YILMAZ V.  
International Society for Photogrammetry and Remote Sensing 2016 (ISPRS 2016), Prag, Czech Republic, 12 - 19 July 2016, vol.XLI-B1, pp.245-251
- XVI. **Determining Stand Parameters from UAS-based Point Clouds**  
Yılmaz V., Şerifoğlu Ç., Güngör O.  
International Society for Photogrammetry and Remote Sensing 2016 (ISPRS 2016), Praha, Czech Republic, 12 - 19 July 2016, vol.XLI-B1, pp.413-416
- XVII. **High Resolution Digital Terrain Model Generation from UAS-Based Point Clouds**  
Şerifoğlu Ç., Yılmaz V., Güngör O.  
1st International Symposium of Forest Engineering and Technologies (FETEC 2016), Bursa, Turkey, 2 - 04 June 2016, pp.1-9
- XVIII. **PERFORMANCE EVALUATION OF DIFFERENT GROUND FILTERING ALGORITHMS FOR UAV-BASED POINT CLOUDS**  
Serifoglu Ç., Gungor O., Yilmaz V.  
23rd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing (ISPRS), Prague, Czech Republic, 12 - 19 July 2016, vol.41, pp.245-251

## Supported Projects

TUNÇ GÖRMÜŞ E., GÜNGÖR O., ŞERİFOĞLU YILMAZ Ç., SARALIOĞLU E., Project Supported by Higher Education Institutions, Boyut İndirgeme Yöntemlerinin Hiperspektral Görüntülerin Sınıflandırılmasına Olan Etkilerinin Araştırılması, 2017 - 2018

## Memberships / Tasks in Scientific Organizations

The International Society for Photogrammetry and Remote Sensing (ISPRS), Member, 2020 - Continues, Germany

## Metrics

Publication: 38

Citation (WoS): 219

Citation (Scopus): 233

H-Index (WoS): 9

H-Index (Scopus): 9

## **Congress and Symposium Activities**

The Selçuk International Scientific Conference On Applied Sciences 2016 (ISCAS 2016), Attendee, Antalya, Turkey, 2016

International Society for Photogrammetry and Remote Sensing 2016 (ISPRS 2016), Attendee, Praha, Czech Republic, 2016

1st International Symposium of Forest Engineering and Technologies (FETEC 2016), Attendee, Bursa, Turkey, 2016