

## Res. Asst. PhD RUTKAY ATUN

### Personal Information

Office Phone: [+90 0346 219 1163](tel:+9003462191163)

Fax Phone: [+90 0346 219 1165](tel:+9003462191165)

Email: [ratun@cumhuriyet.edu.tr](mailto:ratun@cumhuriyet.edu.tr)

Web: <https://avesis.cumhuriyet.edu.tr/6783>

### International Researcher IDs

ScholarID: fKkiXRoAAAAJ

ORCID: 0000-0001-9959-2058

Publons / Web Of Science ResearcherID: GRF-0181-2022

Yoksis Researcher ID: 261600

### Education Information

Doctorate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, GEOMATİK MÜHENDİSLİĞİ, Turkey 2022 - 2024

Doctorate, Eskişehir Technical University, LİSANSÜSTÜ EĞİTİM ENSTİTÜSÜ, UZAKTAN ALGILAMA VE COĞRAFI BİLGİ SİSTEMLERİ, Turkey 2019 - 2021

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Geomatik Mühendisliği, Turkey 2016 - 2018

Undergraduate, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, Turkey 2010 - 2014

### Research Areas

Geotechnical Engineering

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

- I. **Non-destructive above ground biomass estimation of individual tree species using airborne LiDAR data for combating global warming**  
BAŞ N., GÜRSOY Ö., TÜRK T., ATUN R., KOC K.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.27, no.4, pp.422-440, 2022 (SCI-Expanded)
- II. **Drought analysis of Van Lake Basin with remote sensing and GIS technologies**  
ERDEM F., ATUN R., AVDAN Z. Y., ATILA İ., AVDAN U.  
The Egyptian Journal of Remote Sensing and Space Science, vol.24, no.3, pp.1093-1102, 2021 (SCI-Expanded)
- III. **Investigating Surface Water Pollution by Integrated Remotely Sensed and Field Spectral Measurement Data: A Case Study**  
GÜRSOY Ö., ATUN R.  
POLISH JOURNAL OF ENVIRONMENTAL STUDIES, vol.28, no.4, pp.2139-2144, 2019 (SCI-Expanded)
- IV. **USING REMOTE SENSING IN DETECTING SUGAR BEET FIELDS TREATED WITH DIFFERENT DOSES OF PHOSPHORUS**  
GÜRSOY Ö., ATUN R.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, pp.1247-1253, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Detecting the Chemical Changes of Sugar Beet by Using Remote Sensing Technology**  
Atun R., Gürsoy Ö.  
Eurasian Journal of Agricultural Research, vol.4, no.2, pp.72-80, 2020 (Peer-Reviewed Journal)
- II. **Determining The Forest Fire Risk with Sentinel 2 Images**  
ATUN R., Kalkan K., GÜRsoy Ö.  
Turkish Journal of Geosciences, vol.1, no.1, pp.21-25, 2020 (Peer-Reviewed Journal)
- III. **Investigation of Salt Stress in Rosemary Plant by Remote Sensing Technique**  
ATUN R., UÇAR SÖZMEN E., GÜRsoy Ö.  
Türkiye Tarımsal Araştırmalar Dergisi, vol.7, no.2, pp.120-127, 2020 (Peer-Reviewed Journal)
- IV. **Biyoklimatik Konfor ve Arazi Kullanımı Arasındaki İlişkinin CBS ve UA Teknikleri Kullanılarak İncelenmesi: İzmir İli Örneği**  
Erkek E., Başaran N., ATUN R., Kalaycı Ö., Lamba H., Öner A., ÇABUK S. N., UYGUÇGİL H., Ağaçsapan B.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.20, no.2020, pp.174-188, 2020 (Peer-Reviewed Journal)
- V. **Comparison of Spectral Classification Methods in Water Quality**  
GÜRsoy Ö., ATUN R.  
Cumhuriyet Science Journal, vol.39, no.2, pp.543-549, 2018 (Peer-Reviewed Journal)
- VI. **Coğrafi Bilgi Sistemleri ile İklim Değişikliklerinin İzlenmesi: İzmir İli Örneği**  
BİRDAL A. C., KORKMAZ E., ERŞEN G., TÜRK T., ATUN R.  
Doğal Afetler ve Çevre Dergisi, vol.4, no.1, pp.45-55, 2018 (Peer-Reviewed Journal)
- VII. **Spectral Classification in Lithological Mapping A Case Study of Matched Filtering**  
GÜRsoy Ö., CANBAZ O., GÖKCE A., ATUN R.  
Cumhuriyet Science Journal, vol.38, no.4, pp.731-737, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **The effect and accuracy of the use of UAV in road projects on the calculation of earthworks**  
Ersoy İ., Gürsoy Ö., Atun R.  
4th International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 14 - 16 December 2022, pp.92
- II. **CBS tabanlı akıllı tarımsal ürün yetiştiriciliği-Sivas ili örneği**  
Ersoy İ., Gürsoy Ö., Atun R.  
4th International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 14 - 16 December 2022, pp.581-584
- III. **Determining the Change in the Coastline of the Kızılırmak River with Remote Sensing Techniques**  
Aydın A., Ağuş C., Gürsoy Ö., Atun R.  
IGSCONG, Balıkesir, Turkey, 8 - 11 June 2022, pp.579-588
- IV. **Investigation of Temporal Change of Agricultural Plots Around Kızılırmak River in Sivas Province**  
Ağuş C., Aydın A., Gürsoy Ö., Atun R.  
IGSCONG, Balıkesir, Turkey, 8 - 11 June 2022, pp.589-598
- V. **The Use of Vegetation Index to Determine the Amount of Fertilizer in Sugar Beet: A Case Study**  
ATUN R., GÜRsoy Ö.  
International Congress on Agriculture and Forestry Research (AGRIFOR), Marmaris, Turkey, 8 - 10 April 2019, pp.117-120
- VI. **Classification of Water Quality by Using Remote Sensing**  
GÜRsoy Ö., ATUN R.  
International Congress on Agriculture and Forestry Research (AGRIFOR), Muğla, Turkey, 8 - 10 April 2019, pp.121-124

- VII. **REMOTE SENSING TECHNIQUES FOR RESEARCH AND CLASSIFICATION OF THE PHOSPHORUS AMOUNT REQUIRED FOR SUGAR BEET PLANT**  
ATUN R., GÜRSOY Ö.  
AgroSym 2018, Jahorina, Bosnia And Herzegovina, 4 - 07 October 2018
- VIII. **Comparison of Spectral Classification Techniques in Determining the Amount of Fertilizer in Sugar Beet**  
ATUN R., GÜRSOY Ö.  
GREEN ROOM SESSIONS 2018 International GEA (Geo Eco-Eco Agro) Conference, Podgorica, Serbia And Montenegro, 1 - 03 November 2018, pp.54
- IX. **MONITORING OF ROSEMARY PLANT STRESS BY USING REMOTE SENSING**  
UÇAR SÖZMEN E., GÜRSOY Ö., ATUN R., CANBAZ O.  
AgroSym 2018, Jahorina, Bosnia And Herzegovina, 4 - 07 October 2018
- X. **MONITORING OF TREE SPECIES IN THE FOREST BY USING REMOTE SENSING**  
GÜRSOY Ö., ATUN R., UYSAL M.  
AgroSym 2018, Jahorina, Bosnia And Herzegovina, 4 - 07 October 2018
- XI. **COMPARISON OF LITHOLOGIC MAPPING WITH ASTER AND HYPERION DATA: A CASE STUDY IN THE NORTHERN OF ZARA (SİVAS), TURKEY**  
CANBAZ O., ATUN R., GÜRSOY Ö., GÖKCE A., TÜRK T., BİRDAL A. C.  
4th International Scientific Conference Geobalcanica 2018, Ohrid, Macedonia, 15 - 16 May 2018
- XII. **Aster Swir Görüntülerinde Eşleşen Filtreleme Yöntemi İle Hidrotermal Alterasyon Zonlarının Tespiti: Zara Kuzeyi (Sivas/Türkiye)**  
CANBAZ O., GÜRSOY Ö., GÖKCE A., ATUN R.  
71. Türkiye Jeoloji Kurultayı At: Ankara, Turkey, 23 - 27 April 2018
- XIII. **COMPARISON OF LITHOLOGIC MAPPING WITH ASTER AND HYPERION DATA: A CASE STUDY IN THE NORTHERN OF ZARA (SIVAS), TURKEY**  
CANBAZ O., ATUN R., GÜRSOY Ö., GÖKCE A., TÜRK T., BİRDAL A. C.  
4th International Scientific Conference on Geobalcanica, Ohrid, Macedonia, 15 - 16 May 2018, pp.163-166
- XIV. **THE COMPARISON OF MATCH FILTERING AND SPECTRAL INFORMATION DIVERGENCE METHODS FOR DETECTING OF WATER QUALITY**  
GÜRSOY Ö., ATUN R.  
4th International Scientific Conference on Geobalcanica, Ohrid, Macedonia, 15 - 16 May 2018, pp.443-446
- XV. **INTEGRATION OF UNMANNED AERIAL VEHICLE DATA WITH GEOGRAPHICAL INFORMATION SYSTEMS**  
TÜRK T., BİRDAL A. C., GÜRSOY Ö., ATUN R.  
4th International Scientific Conference on Geobalcanica, Ohrid, Macedonia, 15 - 16 May 2018, pp.605-613
- XVI. **Detecting Suitable Areas for Wind Power Plant by the use of GIS: A Case Study of Sivas Province**  
ATUN R., GÜRSOY Ö., BİRDAL A. C.  
UCTEA International Geographical Information Systems Congress 2017, 15-18 November 2017, Adana, Turkey, Adana, Turkey, 15 - 18 November 2017, pp.260-268
- XVII. **Monitoring Climate Changes by Geographical Information Systems: A Case Study of Izmir Province**  
BİRDAL A. C., KORKMAZ E., ERŞEN G., ATUN R., TÜRK T.  
UCTEA International Geographical Information Systems Congress 2017, Adana, Turkey, 15 - 18 November 2017
- XVIII. **Investigation of The Amount of Water Required for Sugar Beet by Using Remote Sensing Technology**  
GÜRSOY Ö., DEMİRBAŞ A., ATUN R.  
The 19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 4 - 06 October 2017
- XIX. **THE USE OF REMOTE SENSING AND LOCAL SPECTRAL MEASUREMENTS IN THE DETERMINATION AND MONITORING OF WATER POLLUTION**  
GÜRSOY Ö., ÖZYONAR F., ATUN R.  
The 19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 4 - 06 October 2017

- XX. **Modeling of Climate Change on Sivas Province with The Help of Geographical Information Systems**  
BİRDAL A. C., ATUN R., TÜRK T.  
19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region,  
Roma, Italy, 4 - 06 October 2017
- XXI. **Farklı Dozlarda Zn Ve Cd Uygulamalarının Şekerpancarı Etkisinin Spektral İmzasına Etkisinin Belirlenmesi**  
GÜRSOY Ö., DEMİRBAŞ A., ATUN R., DURUKAN H.  
TUFUAB 2017, Afyon, Turkey, 27 - 29 April 2017, pp.144-147
- XXII. **FARKLI DOZLARDA ZN VE CD UYGULAMALARININ ŞEKERPANCARININ SPEKTRAL İMZASINA ETKİSİNİN BELİRLENMESİ**  
GÜRSOY Ö., DEMİRBAŞ A., ATUN R., DURUKAN H.  
TUFUAB IX. Teknik Sempozyumu, Afyon, Turkey, 27 - 29 April 2017

## Supported Projects

- Baş N., ATUN R., Project Supported by Higher Education Institutions, LiDAR Verisi ve Optik Görüntü Kaynaştırma Yöntemleri ile Ormanlık Alanda Biyokütle Hesabı, 2020 - 2021
- Birdal A. C., Gürsoy Ö., Bektaş Ö., Koşaroğlu S., Atun R., Türk T., Yılmaz H., Canbaz O., Project Supported by Higher Education Institutions, Sivas Cumhuriyet Üniversitesi Kampüs Alanının Zemin Özelliklerinin ve Altyapı Sistemlerinin Yer Radarı (GPR) Yöntemi ile Tespit Edilmesi ve CBS Ortamına Aktarılması, 2019 - 2020
- Ünsal E., Atun R., Project Supported by Higher Education Institutions, Bina Çatıları İçin Coğrafi Bilgi Sistemi Kullanılarak Güneş Enerjisi Üretimi Optimizasyonu, 2018 - 2020
- Gürsoy Ö., Atun R., Project Supported by Higher Education Institutions, SPEKTRAL SINIFLANDIRMA YÖNTEMLERİNİN KARŞILAŞTIRILMASI VE DOĞRULUK ANALİZİ, 2018 - 2019
- Gürsoy Ö., Atun R., Project Supported by Higher Education Institutions, UZAKTAN ALGILAMA VE YERSEL SPEKTRAL ÖLÇME VERİLERİ KULLANILARAK BİTKİLERİN KİMYASAL DEĞİŞİMLERİNİN ARAŞTIRILMASI, 2017 - 2018
- Gürsoy Ö., Atun R., Project Supported by Higher Education Institutions, Uzaktan Algılama ve Yersel Spektral Ölçme Verilerinin Entegrasyonu İle Yüzeysel Su Kirliliğinin Araştırılması Kızılırmak Örneği, 2015 - 2017

## Metrics

- Publication: 33  
Citation (WoS): 13  
Citation (Scopus): 14  
H-Index (WoS): 3  
H-Index (Scopus): 1