

## Asst. Prof. NURAY BAŞ

### Personal Information

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### International Researcher IDs

ScholarID: ktnY4FwAAAAJ

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### Education Information

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2016 - 2020

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2013 - 2016

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, Turkey 1988 - 1994

### Dissertations

Doctorate, PERFORMANCE RESEARCH ACCORDING TO THE DIFFERENT TERRAIN TYPES IN SAM PRODUCTION WİTH LiDAR DATA, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2016

Postgraduate, SUMMARY A PLOT STUDY ON NATIONALIZATION OF INFORMATION SYSTEM OF PAŞAKÖY-B.BAKKALKÖY, ISTANBUL AREA POWER TRANSMISSION LINES, Istanbul Technical University, Fen Bilimleri Enstitüsü, 1998

### Research Areas

Remote sensing, Engineering and Technology

### Academic and Administrative Experience

Erasmus Program Department Coordinator, Sivas Cumhuriyet University, Mühendislik Fakültesi, Harita Mühendisliği, 2022 - Continues

Head of Department, Sivas Cumhuriyet University, Mühendislik Fakültesi, Harita Mühendisliği, 2020 - Continues

### Courses

Kentsel Planlama, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Mühendislik Etiği, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021

Kartoğrafya, Undergraduate, 2023 - 2024

Uzaktan Algılamada LiDAR Veri Analiz Teknikleri ve Uygulamaları, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Taşınmaz Hukuku, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Bilgisayar Destekli Kartoğrafya, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Analiz ve Değerlendirme Teknikleri, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Mekansal Analizin Temelleri, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Harita Mühendisliğine Giriş, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Uzaktan Algılama ile Kentsel Araştırmalar, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Kentsel ve Kırsal Arazi Düzenlemesi, Postgraduate, 2022 - 2023  
Taşınmaz Değerlemesi, Undergraduate, 2020 - 2021  
İş Sağlığı ve Güvenliği-II, Undergraduate, 2019 - 2020

## Jury Memberships

Doctorate, Doctorate, Sivas Cumhuriyet Üniversitesi, May, 2024  
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, May, 2024  
Doctoral Examination, Doctoral Examination, Sivas Cumhuriyet Üniversitesi, May, 2024  
Doctoral Examination, Doctoral Examination, Sivas Cumhuriyet Üniversitesi, June, 2023

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

- I. **Building footprint extraction using orthophotos based on Artificial Neural Network and fusion of dense point cloud with Digital Topographic Map — Istanbul, Turkey**  
Baş N.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.15, no.13, pp.2-17, 2022 (SCI-Expanded)
- II. **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)
- III. **EFFECTIVE LiDAR DATA CLASSIFICATION BY ROW DATA AND PARAMETER ANALYSIS FRAMEWORK**  
Bas N., Coşkun H. G., Kaya Ş., BAYRAM B., Celik H.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.6, pp.4068-4075, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **An effective approach for analysis of shoreline change and determination of its future location using satellite imagery: A case study of the Lake Burdur, Turkey**  
Koç A., Baş N.  
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.14, no.1, pp.61-72, 2024 (Peer-Reviewed Journal)
- II. **Determination of Dangerous Parts of the Energy Transmission Line by the Canopy Height Model Produced from LiDAR Data**  
BAŞ N.  
Cumhuriyet Science Journal, vol.40, no.2, pp.481-486, 2019 (Peer-Reviewed Journal)
- III. **GPS YER KONTROL NOKTALARI KULLANILARAK LiDAR VERİSİNİN DOĞRULUK ANALİZİ**  
BAŞ N., COŞKUN H. G., ÇELİK H.  
Selcuk University Journal of Engineering ,Science and Technology, vol.4, no.1, pp.40-54, 2016 (Peer-Reviewed Journal)
- IV. **Taşkın Modelleme ve Risk Analizinde LiDAR Verisiyle Sayısal Yükseklik Modeli Üretimi**  
BAŞ N., COŞKUN H. G., ÇELİK H.  
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.4, no.1, pp.117, 2014 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Automated Road Extraction with Rapid Visibility during Earthquakes using LiDAR Data**  
BAŞ N.  
2024 IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium, M2GARSS 2024, Virtual, Online, Algeria, 15 - 17 April 2024, pp.6-10
- II. **A River Extraction from Satellite Images for Flood Modelling**  
BAŞ N.  
3rd. World Conference on Climate Change and Global Warming, Prague, Czech Republic, 10 March 2023
- III. **Flood Modeling using ALOS-PALSAR DEM with HEC-RAS (2D) for the Ezine River in Kastamonu-Bozkurt**  
Baş N., Koç A.  
1st International Conference on Scientific and Academic Research on 10-13 December in 2022 at Konya/Turkey., Konya, Turkey, 10 - 13 December 2022, pp.851-856
- IV. **ESTIMATION FOREST COVER MAP WITH FUSION LiDAR AND SENTINEL DATA**  
Baş N.  
4 INTERNATIONAL CONFERENCE ON ENGINEERING SCIENCE AND TECHNOLOGY, Budva, Montenegro, 8 - 10 September 2021, pp.335-346
- V. **EXAMINING THE ADVANTAGES OF AIRBORNE LiDAR INTEGRATED WITH GIS IN HYDROLOGIC MODELLING**  
Baş N., Coşkun H. G., Çelik H., Alkan Ö.  
7th International Conference on Cartography and GIS, Burgas, Bulgaria, 18 - 23 June 2018, pp.755-761
- VI. **Transmission Line Clearance Management Using Forest Metric**  
Baş N.  
4th International Scientific Research Congress, Yalova, Turkey, 14 - 17 February 2019, pp.204
- VII. **OUTLIER DETECTION ANALYSIS FROM LiDAR DATA FOR MAPPING**  
Baş N., Coşkun H. G., Çelik H.  
7th International Conference on Cartography and GIS, Burgas, Bulgaria, 18 - 23 June 2018, pp.781-789
- VIII. **Performance Analysis with LiDAR data in Flood Modelling using Remote Sensing and GIS in Artvin City**  
ÇELİK H., BAŞ N., COŞKUN H. G., ALKAN Ö., AĞIRALIOĞLU N.  
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY GEOSCIENCES, Çanakkale, Turkey, 18 - 21 October 2017, pp.355-364
- IX. **A Plot GIS Study on Nationalization of Information System of Paşakoy- Bakkalköy, Power Transmission Lines**  
BAŞ N., COŞKUN H. G.  
International Symposium on Remote Sensing and Integrated Technologies, İstanbul, Turkey, 20 - 22 October 1999

## 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

## Metrics

Publication: 17

## Non Academic Experience

State Economic Enterprise SEE, Türkiye Elektrik İletim A.Ş. 1.Bölge Müdürlüğü, İnşaat ve Emlak Müdürlüğü

