

## Res. Asst. Barış SÜLEYMANOĞLU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: GBQ-5031-2022

ScopusID: 57204195754

Yoksis Researcher ID: 199473

### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Harita Mühendisliği, Turkey  
2016 - Continues

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Harita Mühendisliği, Turkey  
2013 - 2016

Undergraduate, Yıldız Technical University, Faculty Of Civil Engineering, Harita, Turkey 2008 - 2013

### Dissertations

Postgraduate, Lidar tekniği ile elde edilen nokta bulutların sınıflandırılması ve filtreleme algoritmalarının incelenmesi,  
Yıldız Technical University, Faculty of Civil Engineering, Geomatic Engineering, 2016

### Research Areas

Geotechnical Engineering, Measuring Technique, Earth Observations (Remote Sensing), Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Yıldız Technical University, Faculty Of Civil Engineering, Geomatic Engineering, 2013 - Continues

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

- I. An adaptive iterative reweighted filtering methodology for urban MLS dataset**  
Süleymanoğlu B., Soycan A., Soycan M.  
Journal of Spatial Science, vol.0, pp.1-21, 2024 (SCI-Expanded)
- II. 3D Road Boundary Extraction Based on Machine Learning Strategy Using LiDAR and Image-Derived MMS Point Clouds**  
Süleymanoğlu B., Soycan M., Toth C.  
SENSORS, vol.24, no.2, pp.1-24, 2024 (SCI-Expanded)
- III. Comparison of Unmanned Aerial Vehicle-LiDAR and Image-Based Mobile Mapping System for**

### **Assessing Road Geometry Parameters via Digital Terrain Models**

Suleymanoglu B., Gürtürk M., Yilmaz Y., Soycan A., Soycan M.

Transportation Research Record, vol.2677, no.8, pp.617-632, 2023 (SCI-Expanded)

- IV. **Performance of unsupervised machine learning methods using chi-squared weights for LiDAR point cloud filtering in urban areas**  
ŞEN A., SÜLEYMANOĞLU B., SOYCAN M.  
JOURNAL OF SPATIAL SCIENCE, vol.68, no.3, pp.397-414, 2023 (SCI-Expanded)
- V. **Unsupervised extraction of urban features from airborne lidar data by using self-organizing maps**  
ŞEN A., SÜLEYMANOĞLU B., SOYCAN M.  
SURVEY REVIEW, vol.52, no.371, pp.150-158, 2020 (SCI-Expanded)
- VI. **COMPARISON OF FILTERING ALGORITHMS USED FOR DTM PRODUCTION FROM AIRBORNE LIDAR DATA: A CASE STUDY IN BERGAMA, TURKEY**  
Süleymanoğlu B., Soycan M.  
GEODETSKI VESTNIK, vol.63, no.3, pp.395-413, 2019 (SSCI)

### **Articles Published in Other Journals**

- I. **Overview of large scale map production with UAV based photogrammetric technique: A case study in Izmir-Cesme territory of Turkey**  
Yılmaz Y., Gürtürk M., Süleymanoğlu B., Soycan A., Soycan M.  
Journal of Geography and Cartography, vol.6, no.2, pp.1-16, 2023 (Peer-Reviewed Journal)
- II. **High Definition Corridor Mapping From Images Sequences**  
SÜLEYMANOĞLU B., YILMAZ Y., SOYCAN M., SOYCAN A., GÜRTÜRK M.  
International Journal of Digital Innovation in the Built Environment, vol.9, no.1, pp.22-35, 2020 (Peer-Reviewed Journal)

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

- I. **ROAD INFRASTRUCTURE MAPPING BY USING IPHONE 14 PRO: AN ACCURACY ASSESSMENT**  
SÜLEYMANOĞLU B., Tamimi R., YILMAZ Y., SOYCAN M., Toth C.  
39th International Symposium on Remote Sensing of Environment, ISRSE 2023, Antalya, Turkey, 24 - 28 April 2023, vol.48, pp.347-353
- II. **MONITORING THE ENVIRONMENT IN SMART CITIES: THE IMPORTANCE OF GEOSPATIAL LOCATION REFERENCING**  
SÜLEYMANOĞLU B., Toth C., Masiero A., Ladai A.  
39th International Symposium on Remote Sensing of Environment, ISRSE 2023, Antalya, Turkey, 24 - 28 April 2023, vol.48, pp.355-360
- III. **INDOOR MAPPING: EXPERIENCES WITH LIDAR SLAM**  
Suleymanoglu B., Soycan M., Toth C.  
24th ISPRS Congress on Imaging Today, Foreseeing Tomorrow, Nice, France, 6 - 11 June 2022, vol.43-B1, pp.279-285
- IV. **High definition corridor mapping from images sequences**  
Gürtürk M., Yılmaz Y., Süleymanoğlu B., Soycan A., Soycan M.  
International Symposium on Applied Geoinformatics, İstanbul, Turkey, 7 - 09 November 2019, vol.1, no.1, pp.125-164
- V. **High definition corridor mapping from images sequences**  
GÜRTÜRK M., YILMAZ Y., SÜLEYMANOĞLU B., SOYCAN A., SOYCAN M.  
ISAG2019, 7 - 09 September 2019
- VI. **Extraction of highway geometry parameters from airborne LIDAR data and imagery**

Süleymanoğlu B., Soycan M.

ISAG2019, İstanbul, Turkey, 7 - 09 September 2019

**VII. An Overview of Mobile LIDAR Systems and Their Usability in Corridor Mapping Studies**

SÜLEYMANOĞLU B., SOYCAN M.

INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY AND GEOSCIENCES, 18 - 21 October 2017

**VIII. Hava Lidar Verilerinde Kullanılan Filtreleme Algoritmalarının İncelenmesi**

SÜLEYMANOĞLU B., SOYCAN M.

Türkiye Harita Bilimsel ve Teknik Kurultayı, Turkey, 3 - 06 May 2017

**IX. Comparison of DEM Derived Based ON The Point Cloud Obtained From Different Lidar System and Flight Altitude**

Süleymanoğlu B., Gürtürk M., Selbesoğlu M. O., Soycan M.

SELÇUK INTERNATIONAL SCIENTIFIC CONFERENCE ON APPLIED SCIENCES, Konya, Turkey, 27 - 30 September 2016, pp.1

**X. Assesment Of Digital Terrain Model Generated From Different Lidar System And Flight Altitude**

SOYCAN M., SÜLEYMANOĞLU B.

World Multidisciplinary Earth Sciences Symposium, 7 - 10 September 2015

**XI. Baraj Tasarım ve Risk Analizine Yönelik Hassas 3 Boyutlu Topografik Modelleme için Lidar Teknolojisi**

Soycan M., Süleymanoğlu B.

4. Ulusal Baraj Güvenliği Sempozyumu, Elazığ, Turkey, 9 - 11 October 2014, pp.1

## Supported Projects

SOYCAN M., SÜLEYMANOĞLU B., Project Supported by Higher Education Institutions, FARKLI NİTELİKTEKİ NOKTA BULUTLARINDAN KARAYOLU GEOMETRİSİNİN ÇIKARILMASINA YÖNELİK BİR YAKLAŞIMIN GELİŞTİRİLMESİ, 2019 - 2023

## Metrics

Publication: 19

Citation (WoS): 7

Citation (Scopus): 19

H-Index (WoS): 2

H-Index (Scopus): 2