

ERAY SEVGEN



PERSONAL INFO

Name : Eray Sevgen
Contact : eraysevgen@gmail.com
Location : Ankara, Turkey

EDUCATION

Hacettepe University, Ankara, Turkey 2018-2024
PhD in Geomatics Engineering
Specification: Photogrammetry and Remote Sensing
Thesis: *Development of a Deep Learning Approach for 3D Point Cloud Classification*

Purdue University, West Lafayette, Indiana, USA 2010-2013
MSc in Civil Engineering
Specification: Geomatics Engineering
Thesis: *Road Extraction from GPS Trajectories*

Yildiz Technical University, Istanbul, Turkey 2002-2007
BSc in Geomatics Engineering
Specification: GIS and Remote Sensing

EXPERIENCE

Turkish Petroleum Cooperation (TPAO) Aug. 2013 - Present
Ankara, Turkey

Geomatics Engineer

Provided geodetic support, seismic navigation data acquisition, and quality control for onshore and offshore exploration projects.

GIS Specialist (Current Position)

Manage geospatial data and databases as a GIS administrator, including full-stack management of web services and GIS software packages.

RESEARCH INTERESTS

3D Point Clouds, Machine Learning, Deep Learning, Geospatial Data Management, GeoAI

PUBLICATIONS

Full-Paper-based Reviews (Journals/Conference Papers)

1. **E. Sevgen**, & S. Abdikan, Classification of Large-scale Mobile Laser Scanning Data in Urban Area with LightGBM, Remote Sensing, 2023, 15, 3787. **SCIE,Q1**
2. **E. Sevgen**, S. Kocaman, H. A. Nefeslioglu & C. Gokceoglu, A Novel Performance Assessment Approach Using Photogrammetric Techniques for Landslide Susceptibility Mapping with Logistic Regression, ANN and Random Forest, Sensors, 2019, 1424-8220, 19, 18. **SCIE,Q1**

Abstract-based Reviews (Proceedings)

1. **E. Sevgen**, & S. Abdikan, Point-Wise Classification of High-Density Uav-Lidar Data Using Gradient Boosting Machines, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 2023, 48, 587 - 593.
2. **E. Sevgen**, & M. Ö. Efe, A Comparison of Feature Selections in ALS Point Cloud Classification using 3D Neural Network, 2019, International Symposium on Applied Geoinformatics (ISAG-2019), 07-09, November 2019, 1, 1, 427 - 431.
3. S. Kocaman, **E. Sevgen** & C. Gokceoglu, A Photogrammetric Surface Comparison for a Dam Reservoir in a Landslide Prone Area in Eastern Anatolia, Turkey, 2018, 1st Conference of the Arabian Journal of Geosciences (CAJG), 12 - 15 November 2018.
4. **E. Sevgen** & S. Canaz Sevgen, Elektrik Nakil Hattının Hava LiDAR Verilerinden Çıkarılması (Automatic Powerline Extraction from ALS Data), 2016, Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu (UZAL CBS) 2016, 05-07 Ekim 2016, 127 - 132 (in Turkish).

TECHNICAL STRENGTHS

GIS tools - database	QGIS & PostgreSQL & PostGIS
Machine - Deep Learning libs/tools	Scikit-Learn and PyTorch
Programming	Mainly in Python

AWARDS AND RECOGNITIONS

2009 - 2013	Scholarship for Master of Science degree in the USA from Ministry of National Education, Turkey
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