

ERAY SEVGEN



PERSONAL INFO

Name : Eray Sevgen
Contact : firstlast(at)gmail_dot_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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