

Mustafacan Saygi

Geomatics Engineer

Mustafacan Saygi completed his primary, secondary, and high school education in Istanbul and started his B.Sc. degree at Trakya University, Department of Mechanical Engineering in 2018. The following year, Mustafacan Saygi, who wanted to develop himself in the field of remote sensing and geographic information technologies, transferred to Gebze Technical University, Department of Geomatics Engineering. He graduated in 2023 and started his M.Sc. degree in Geodesy and Geographic Information Technologies in the same year. He is still continuing his M.Sc. degree in the field of remote sensing. His main research areas include digital image processing and earth observation based on machine learning, and deep learning. He has publications published in national and international conference proceedings.

Education

2014-2018	Koy Hizmetleri Anatolian High School High School
2018-2019	Trakya University Mechanical Engineering (BSc)
2019-2023	Gebze Technical University Geomatics Engineering (BSc)
2023-	Gebze Technical University Geodesy and Geographic Information Technologies (MSc)

Experience

Jun 2021 - Jul 2021	Sonmez Geomatic Engineering Consultancy Intern Engineer	<ul style="list-style-type: none">I participated in various field studies in the field of measurement technique.I have performed application processes with various measurement techniques at many construction sites.
Jul 2021 - Sep 2021	Tosun Geomatic Engineering Intern Engineer	<ul style="list-style-type: none">I participated in the real estate evaluation stages on movable and immovable properties.I participated in the joint studies with the Land Registry and Cadastre Directorate in solving various problems in the field of zoning law.
Sep 2021 - Jun 2022	B2 Advertising and Organization Part Time Supervisor	<ul style="list-style-type: none">I have been on the field as a team leader during field setups and events in various big organizations such as Brand Week, Istanbul Marathon.During the time I was on the field as the team leader; I developed my skills in team management, using time and thinking actively.
Jul 2022 - Aug 2022	CFG Metro Intern Engineer	<ul style="list-style-type: none">By working in the construction of the Altunizade-Çamlıca Mosque Metro Line, I gained my first working experience in corporate life.



Contact

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Skills

- Remote Sensing
- Digital Image Processing
- Machine Learning Algorithms
- Advanced Deep Learning Applications
- Photogrammetry
- Geographic Information Technologies

Languages

English	B1
German	A1

Courses & Certificates

- Advanced Programming from Scratch**
Udemy / Mustafa Murat Coskun
- Image Processing with Deep Learning**
Udemy / DATAI Team
- Machine Learning from A to Z**
Udemy / DATAI Team
- UAV-1 Sporty/Amateur Driving License**
Directorate General of Civil Aviation

Projects

Nov 2022 - Present **TUBITAK 1001**
Scholar Researcher

- **Project Name:** Digital Agriculture Applications with The Fusion of Unmanned Aerial Vehicle Technologies and Artificial Intelligence Techniques: Monitoring The Development of Maize (Zea Mays).
- **Project No:** 121Y392
- **Project Manager:** Assoc. Prof. Ismail Colkesen

Publications

- Colkesen, I., Kavzoglu, T., Sefercik, U. G., Altuntas, O. Y., Nazar, M., Ozturk, M. Y., & Saygi, M. (2023). Deep learning based poplar tree detection and counting using multispectral UAV images. *Advanced Engineering Days (AED)*, 6, 64-67.
- **Saygi, M.**, Altuntas, O. Y., Colkesen, I., Sefercik, U. G. (2023). İHA Görüntülerinden Bireysel Ağaç Taç Segmentasyonunda YOLOv7, YOLOv8, Mask R-CNN ve Segment Anything Modelinin Karşılaştırmalı Performans Analizi. XII. Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği Teknik Sempozyumu (TUFUAB), 12.
- Bulut, A., **Saygi, M.**, Oncel, M. S., Celen, M., Colkesen, I. (2023). Assessment of Flood Risk with Remote Sensing and Artificial Intelligence Integration: A Case Study of the Saz-Cayırova Stream Basin. 5th International Disaster and Resilience Congress (idRc), 5.
- Altuntas, O. Y., Colkesen, I., Sefercik, U. G., Kavzoglu, T., **Saygi, M.**, Ozturk, M. Y., Nazar, M., Aydın, I., & Tonbul, H. (2023). Evaluating The Performance of Object-Based Machine Learning and Deep Learning Models in Classifying Different Maize Genotypes with Multispectral UAV Imagery. *Advanced Engineering Days (AED)*, 8.