

Res. Asst. Cemali ALTUNTAŞ

Personal Information

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Biography

He was born in 1994 in Ankara. He completed his primary, secondary and high school education in the same city. He received his undergraduate degree from Yildiz Technical University in 2017. In 2018, he started his graduate education at Hacettepe University, Institute of Science and Technology, Department of Geomatics Engineering. At the end of 2018, he was appointed as a Research Assistant to the Division of Surveying Technique in the Department of Geomatic Engineering at Yildiz Technical University. At the beginning of 2019, he moved as a student from Hacettepe University to Yildiz Technical University. In January 2021, he completed his master's thesis titled "Examination of the Global Navigation Satellite Systems Reflectometry Method with Signal to Noise Ratio Data". He still continues his work and doctorate education here.

He worked on GPS-PPP, VLBI and repeatability criteria during his time at Hacettepe University. Nowadays, the focus of his work is on GNSS Interferometric Reflectometry (GNSS-IR).

Education Information

Doctorate, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, Turkey 2021 - Continues
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Harita Mühendisliği / Geomatik, Turkey 2019 - 2021

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Geomatik Mühendisliği, Turkey 2018 - 2019

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, Turkey 2013 - 2017

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, Examination of the Global Navigation Satellite Systems Reflectometry Method with Signal to Noise Ratio Data, Yildiz Technical University, Faculty of Civil Engineering, Geomatic Engineering, 2021

Research Areas

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

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, 2018 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **An experimental test for detecting effective reflector height with GPS SNR data**
Tunahoglu N., Altuntaş C.
EARTH SCIENCES RESEARCH JOURNAL, vol.26, no.1, pp.13-22, 2022 (Journal Indexed in SCI Expanded)
- II. **GIRAS: an open-source MATLAB-based software for GNSS-IR analysis**
Altuntaş C., Tunahoglu N.
Gps Solutions, vol.26, no.1, pp.1-8, 2022 (Journal Indexed in SCI)
- III. **Feasibility of retrieving effective reflector height using GNSS-IR from a single-frequency android smartphone SNR data**
Altuntaş C., Tunahoglu N.
Digital Signal Processing, pp.1-10, 2021 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **An investigation on the use of GNSS-IR method for determining sea level changes and its accuracy analysis**
Altuntaş C., Tunahoglu N.
Geomatik, vol.7, no.3, pp.187-196, 2022 (Other Refereed National Journals)
- II. **Retrieving the SNR metrics with different antenna configurations for GNSS-IR**
Altuntaş C., Tunahoglu N.
Turkish Journal of Engineering, vol.6, no.1, pp.87-94, 2022 (Refereed Journals of Other Institutions)
- III. **ESTIMATION PERFORMANCE OF SOIL MOISTURE WITH GPS-IR METHOD**
Altuntaş C., Tunahoglu N.
Sigma Journal of Engineering and Natural Sciences, vol.38, no.4, pp.2217-2230, 2020 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Long-term Snow Depth Retrieval Performance of GNSS-IR Method**
Altuntaş C., Tunahoglu N., Erdoğan B.
Türkiye Ulusal Jeodezi Komisyonu (TUJK) 2021 Yılı Bilimsel Toplantısı, Ankara, Turkey, 25 - 27 November 2021, pp.1
- II. **Türkiye Kıyılarında Deniz Seviyesi Değişimlerinin GNSS-IR Yöntemi ile Belirlenebilirliğinin Araştırılması: Tekirdağ (TEKR) Sabit GNSS İstasyonu Örneği**
Altuntaş C., Tunahoglu N.
18. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 26 - 29 May 2021, pp.1
- III. **An experimental study on the effect of antenna orientation on GNSS-IR**
Altuntaş C., Tunahoglu N.
Intercontinental Geoinformation Days, 25 - 26 November 2020, pp.244-247
- IV. **GPS Sinyal Gürültü Oranı (SNR) Kullanılarak Genlik Değişimlerinin İncelenmesi**
Doğan A. H. , Tunahoglu N., Durdağ U. M. , Erdoğan B., Öcalan T., Altuntaş C.
17. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 25 April 2019, pp.1
- V. **IVS-CONT17 Süresince VLBI ve GNSS (PPP) Tekniklerinden Elde Edilen Günlük Koordinat ve Baz Uzunluğu Tekrarlanabilirlikleri**
Altuntaş C., Öcal M. F. , Teke K.
17. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 25 April 2019, pp.1

Supported Projects

Tunalođlu N., Öcalan T., Altuntaş C., Özel Ö., Keskin İ. H. , Project Supported by Other Official Institutions, Türkiye Kıyılarında Deniz Seviyesi Deđişiminin SNR Verileri ile GNSS-IR Yöntemine Dayalı Olarak İzlenmesi ve Doğruluk Araştırması, 2021 - 2023

Tunalođlu N., Altuntaş C., TUBITAK Project, Çift Frekanslı Çoklu-GNSS Çipine Sahip Android Tabanlı Akıllı Telefonlar ile SNR Metriklerinin Kestiriminin Araştırılması, 2021 - 2022

Tunalođlu N., Altuntaş C., Erdoğan B., Project Supported by Higher Education Institutions, Mevsimsel Kar Kalınlığı Deđişimlerinin GNSS-IR Yöntemi ile İzlenmesi ve Doğruluk Analizi, 2021 - 2022

Awards

Altuntaş C., 16. TÜRKİYE HARİTA BİLİMSSEL VE TEKNİK KURULTAYI HARİTA/GEOMATİK MÜHENDİSLİĐİ BÖLÜMLERİ LİSANS ÖĐRENCİLERİ POSTER YARIŞMASI BİRİNCİLİĐİ, Harita Ve Kadastro Mühendisleri Odası, May 2017