Bilal MUTLU

Research Assistant at Istanbul Technical University

Date of Birth: Feb. 24, 1996

Istanbul Technical University, Civil Engineering Faculty, Geomatics Engineering Department, Office no: G303, 34469, Maslak, Sarıyer/Istanbul

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ORCID:0000-0002-9763-0345

Interests

- Geodesy
- GNSS
- Natural Hazard Monitoring
- Deformation Measurements

Skills

Programming:

- Python
- SQL
- C
- Bash Scripting

Tools:

- GMT
- RTKLib
- LaTeX
- Bernese
- ESA SNAP
- GMTSAR

GIS & CAD Tools:

- QGIS
- AutoCad
- MicroStation Inroads

Working Experience

Feb, 2020 – ongoing — **Research Assistant** — **Istanbul Technical University, Turkey**
Working as a Research Assistant in Geomatics Engineering Department. Major research area includes geodesy and natural hazard monitoring with geosensors.

Internships

Aug –Sep,2018 — **Intern Engineer** — **Geotek Geomatics Engineering, Turkey**
Major research area includes cadastral survey and producing 3D models by using Drone photos.

Jul – Aug, 2018 — **Intern Engineer** — **EDK (AKSA) Project Engineering, Turkey**
Major research area includes road, rail and drainage network designs.

Jul – Aug, 2017 — **Intern Engineer** — **Akdeniz Construction Company, Turkey**
Working as an intern engineer at Düzce Çimento Y.d Madencilik (cement plant) Construction Site. Major research area includes excavation works for build and setting up a new geodetic network for construction site.

Jul – Aug, 2016 — **Intern Engineer** — **Yürekli Survey Office, Turkey**
Major research area includes land management and cadastral surveys.

Education

Postgraduate Studies

2022 – — **Ph.D. in Geomatics Engineering** — **Istanbul Technical University, Turkey**
Title: Geodesy Related Topic
Supervisor: Prof. Dr. Serdar EROL
Grade: GPA: 4.00

2019 – 2022 — **M.Sc. in Geomatics Engineering** — **Istanbul Technical University, Turkey**
Title: Investigation and Analysis of Regional and Global Disasters Using Different Geosensors. **URL**
Supervisor: Prof. Dr. Serdar EROL
Grade: GPA: 3.94
Deformation Monitoring | Ice Mass Loss | GNSS | SAR

Undergraduate Study

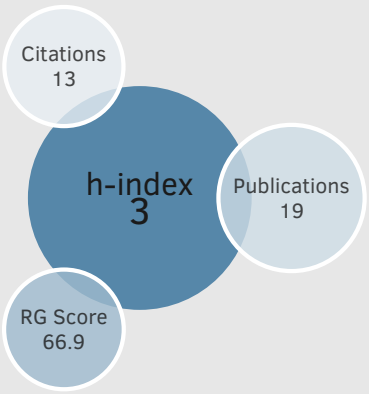
2014 – 2019 — **B.Sc. in Geomatics Engineering** — **Istanbul Technical University, Turkey**
Prject Title: Assesments on Temporal Variations of Earth Gravity Field with Grace Observations Using Different Computation Services.
Supervisor: Prof. Dr. Bihter EROL
Grade: GPA: 3.13
Gravity | EWT | GRACE | IGiK - TVGMF

Publications

Journals

- **Mutlu, B.**, Erol, S. & Alkan, R. M. (2023). The performance analysis of the post-mission web-based static and kinematic PPP-AR service. Rudarsko-geološko-naftni zbornik, 38(4), 103-116.
  DOI: 10.17794/rgn.2023.4.9
- Erol, S., Alkan, R. M., & **Mutlu, B.** (2023). Assessment of Multi-GNSS RT-PPP Services for the Antarctic Region. ARCTIC, 76(3), 357-369.
  DOI: 10.14430/arctic78405 **(Citations: 1)**
- Alkan, R. M., Erol, S., & **Mutlu, B.** (2023). Applicability of real-time PPP technique in polar regions as an accurate and efficient real-time positioning system. Turkish Journal of Earth Sciences, 32(8), 1022-1040.
  DOI: 10.55730/1300-0985.1891 **(Citations: 1)**

Metrics



Profiles

Languages

Turkish (Native Language)

English (YÖKDİL: 90)

- Alkan, R. M., Erol, S., & **Mutlu, B.** (2022). Real-time multi-GNSS Precise Point Positioning using IGS-RTS products in Antarctic region. Polar Science, 32, 100844. DOI: j.polar.2022.100844 **(Citations: 4)**
- Alkan, R. M. , Erol, S. and **Mutlu, B.** (2022). IGS-RTS ürünleri kullanılarak gerçek-zamanlı hassas nokta konumlama (RT-PPP) tekniğinin performans analizi: Antarktika örneği . Yerbilimleri , 43 (1) , 76-95. DOI: 10.17824/yerbilimleri.1050124 **(Citations: 3)**
- Erol, S., **Mutlu, B.**, Erol, B., Katıgöz, S., Alkan, R.M. (2020). Antarktika Kıtasında Hassas Nokta Konumlama (Precise Point Positioning-PPP) Tekniğinin Performansının İncelenmesi . Afyon Kocatepe Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi , 20 (5) , 844-856. DOI: 10.35414/akufemubid.761692 **(Citations: 3)**

Conferences

- Alkan, R. M., Erol, S. & **Mutlu, B.** (2023). Centimeter-accurate Positioning with Handheld GNSS Receiver. XXXIII International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields (pp.13-23). Sofia, Bulgaria. URL
- Alkan, R. M., Selbesoğlu, M. O., Yavaşoğlu, H. H., & **Mutlu, B.** (2023). Continuous decimeters level real-time Precise Point Positioning in polar high latitude region. Intercontinental Geoinformation Days, 6, 233-237. URL
- **Mutlu, B.**, Aksoy, S., & Erol, S. (2023). Sentinel-1 Verilerinden Yararlanılarak Çıldır Gölü'nün Yüzey Buz Tabakasının Takibi. URL
- Alkan, R. M., Erol, S. & **Mutlu, B.** (2022). Evaluation Of Real-Time Precise Point Positioning Technique Performance In Polar Regions Using IGS and NAVCAST GNSS SSR Correction Products. 6. Ulusal Kutup Bilimleri Çalıştayı, November 30 - December 01,Trabzon, Türkiye. URL
- Erol, S., **Mutlu, B.**, & Alkan, R. M. (2022). Gerçek-Zamanlı Çoklu-GNSS Hassas Nokta Konumlama (Multi-GNSS RT-PPP) Tekniğinin Performansının İncelenmesi (Performance Analysis of Real-Time Multi-GNSS Precise Point Positioning Technique). Türkiye Ulusal Jeodezi Komisyonu 2022 Yılı Bilimsel Toplantısı, November 02 - November 04, Kocaeli, Türkiye. URL
- Erol B., Simav M., Işık M. S., Erol S., Akdoğan Y. A., Akpınar İ., Çevikalp M. R., Gülender M. A. & **Mutlu, B.** (2022). Yüksek Çözünürlüklü Gravimetrik Geoit Modellemede Gravite Verilerinin Ön İşlemesi Üzerine Bir İnceleme (A Study on Pre-processing of Gravity Data in High Resolution Gravimetric Geoid Modeling). Türkiye Ulusal Jeodezi Komisyonu 2022 Yılı Bilimsel Toplantısı, November 02 - November 04, Kocaeli, Türkiye. URL
- **Mutlu, B.**, Erol, S. & Erol, B. (2021). An Investigation on the Ice Mass Loss in Antarctica Using Different Geosensors Data, Scientific Assembly of the International Association of Geodesy (IAG), June 28 – July 2, 2021, Beijing, China.
- Erol, S., **Mutlu, B.** & Erol, B. (2021). Assessment of the Galileo System Contribution on RT-PPP Using Different Real-Time Correction Services in the Antarctic Region, Scientific Assembly of the International Association of Geodesy (IAG), June 28 – July 2, 2021, Beijing, China.
- **Mutlu, B.**, Erol, S., Çevikalp, M. R., & Erol, B. (2021). Geodetic Investigation of the 30 October 2020 Mw 6.9 Samos-Izmir Earthquake, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-12219, https://doi.org/10.5194/egusphere-egu21-12219, 2021
- Erol, S., **Mutlu, B.**, Erol, B., & Çevikalp, M. R. (2021). Static and Pseudo-Kinematic PPP-AR Performance in Antarctic Region, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-14144, https://doi.org/10.5194/egusphere-egu21-14144, 2021.
- Çevikalp, M. R., Erol, B., **Mutlu, B.**, & Erol, S. (2021). Accuracy Assessment of Recent High-Degree Global Geopotential Models Using Geodetic Control Points and Terrestrial Gravity Data in Turkey, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-11929, https://doi.org/10.5194/egusphere-egu21-11929, 2021.
- **Mutlu, B.**, Erol S. & Alkan R. M. (2020). Comparison of Static PPP Performance of CSRSPPP Float and Trimble RTX-PP Services. Intercontinental Geoinformation Days (IGD), 173-176, Mersin, Turkey. URL **(Citations: 1)**
- **Mutlu, B.**, Çevikalp M. R. & Erol B. (2019).Assessments on Temporal Variations of Earth Gravity Field with Grace Observations. XXIX International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, İstanbul, Türkiye, 5 - 06 November 2019, ss.351-363. URL