

Assoc. Prof. METİN NOHUTCU

Personal Information

Email: mnohutcu@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/mnohutcu>

Address: Hacettepe Üniversitesi, Geomatik Mühendisliği Bölümü, Beytepe, Ankara

International Researcher IDs

ORCID: 0000-0001-9582-582X

Publons / Web Of Science ResearcherID: E-6803-2013

ScopusID: 35751428200

Yoksis Researcher ID: 20742

Education Information

Post Doctorate, Universitat Politècnica de Catalunya, Research Group Of Astronomy And Geomatics, Spain 2011 - 2012

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering, Turkey 2003 - 2009

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering, Turkey 1999 - 2002

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1994 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Development of a Matlab based software package for ionosphere modeling, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering (Dr), 2009

Postgraduate, Analysis of water distribution networks with pressure dependent demand models, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering (MSc), 2002

Research Areas

Geotechnical Engineering, GPS-GNSS, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2020 - Continues

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2018 - 2020

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2013 - 2018

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 1999 -

Academic and Administrative Experience

Head of Department, Hacettepe University, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2019 - 2019

Deputy Head of Department, Hacettepe University, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2013 - 2018

Advising Theses

Nohutcu M., Enhancement of Real-Time Absolute GNSS Positioning Performance, Doctorate, B.BAHADUR(Student), 2021

NOHUTCU M., Improving the performance of precise point positioning with multi-GNSS, Postgraduate, B.BAHADUR(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Assessing the performance of multi-GNSS precise point positioning technique on the geoid model validation**
Simav M., BAHADUR B., Yıldız H., Cingöz A., NOHUTCU M., Sezen E.
Survey Review, vol.56, no.394, pp.51-64, 2024 (SCI-Expanded)
- II. **Impact of observation sampling rate on Multi-GNSS static PPP performance**
Bahadur B., Nohutcu M.
SURVEY REVIEW, vol.53, no.378, pp.206-215, 2021 (SCI-Expanded)
- III. **Integration of variance component estimation with robust Kalman filter for single-frequency multi-GNSS positioning**
Bahadur B., Nohutcu M.
MEASUREMENT, vol.173, 2021 (SCI-Expanded)
- IV. **Real-time single-frequency multi-GNSS positioning with ultra-rapid products**
BAHADUR B., NOHUTCU M.
MEASUREMENT SCIENCE AND TECHNOLOGY, vol.32, no.1, 2021 (SCI-Expanded)
- V. **Galileo-based precise point positioning with different MGEX products**
BAHADUR B., NOHUTCU M.
MEASUREMENT SCIENCE AND TECHNOLOGY, vol.31, no.9, 2020 (SCI-Expanded)
- VI. **Comparative analysis of MGEX products for post-processing multi-GNSS PPP**
BAHADUR B., NOHUTCU M.
MEASUREMENT, vol.145, pp.361-369, 2019 (SCI-Expanded)
- VII. **PPPH: a MATLAB-based software for multi-GNSS precise point positioning analysis**
BAHADUR B., NOHUTCU M.
GPS SOLUTIONS, vol.22, no.4, 2018 (SCI-Expanded)
- VIII. **The Barcelona ionospheric mapping function (BIMF) and its application to northern mid-latitudes**
LYU H., Hernandez-Pajares M., NOHUTCU M., Garcia-Rigo A., Zhang H., Liu J.
GPS SOLUTIONS, vol.22, no.3, 2018 (SCI-Expanded)
- IX. **Regional VTEC modeling with multivariate adaptive regression splines**
Durmaz M., KARSLIOĞLU M. O., Nohutcu M.
ADVANCES IN SPACE RESEARCH, vol.46, no.2, pp.180-189, 2010 (SCI-Expanded)
- X. **B-spline modeling of VTEC over Turkey using GPS observations**
Nohutcu M., KARSLIOĞLU M. O., Schmidt M.
JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS, vol.72, pp.617-624, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Düşük Maliyetli ve Tek Frekanslı Çoklu GNSS Gözlemlerine Dayalı Varyometrik Yaklaşımın Düşey Dinamik Hareketleri Yakalayabilme Kabiliyetinin İncelenmesi**
BEZCİOĞLU M., BAHADUR B., BOZDOĞAN E., DINDAR A. A., NOHUTCU M., YİĞİT C. Ö.
Harita Dergisi, vol.90, no.172, pp.1-16, 2024 (Peer-Reviewed Journal)
- II. **Analysis of Robust Kalman Filter Methods for Precise Point Positioning**
Bahadur B., Nohutcu M.
Harita Dergisi, vol.86, no.164, pp.29-42, 2020 (Peer-Reviewed Journal)
- III. **MULTI-GNSS PPP: An Alternative Positioning Technique for Establishing Ground Control Points**
BAHADUR B., NOHUTCU M.
International Journal of Environment and Geoinformatics, vol.7, no.1, pp.88-92, 2020 (Peer-Reviewed Journal)
- IV. **Investigation the impact of clock jumps in GNSS receivers on the performance of precise point positioning (PPP)**
Bahadur B., Nohutcu M.
Jeodezi ve Jeoinformasyon Dergisi, vol.6, no.2, pp.87-95, 2019 (Peer-Reviewed Journal)
- V. **Galileo Temelli Hassas Nokta Konumlama Yönteminin Performans Değerlendirmesi: Türkiye Örneği**
BAHADUR B., NOHUTCU M.
Harita Dergisi, vol.85, pp.1-11, 2019 (Peer-Reviewed Journal)
- VI. **Türkiye ve Yakın Çevresi İçin Çoklu-GNSS Kombinasyonlarının PPP Performansına Etkisi**
BAHADUR B., NOHUTCU M.
Harita Dergisi, vol.84, pp.1-11, 2018 (Peer-Reviewed Journal)
- VII. **VLBI Intensive Oturumlarının Analizi ile Evrensel Zamanın (UT1) İzlenmesi**
TEKE K., ÖCAL M. F., NOHUTCU M., OKAY AHI G.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.17, pp.1004-1018, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Türkiye Kaynaklı İlk Çevrimiçi PPP Servisi**
Nohutcu M., Bahadur B., Teke K., Güvenaltın M. A., Hazan P., Öcal M. F., Dülger D., Gökçe B., Sayın Y. N., Turan Y.
Türkiye Ulusal Jeodezi Komisyonu 2021 Yılı Bilimsel Toplantısı, Ankara, Turkey, 25 - 27 November 2021, pp.16-17
- II. **Çoklu-GNSS Gözlemlerinin Değerlendirilmesinde Yeni Bir Filtreleme Yaklaşımı**
BAHADUR B., NOHUTCU M.
18. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 26 May 2021
- III. **Assessment of PPP Positioning Accuracy with Different Meteorological Data Sources**
Buğçe G., Duygu D., Bahadur B., Nohutcu M., Teke K.
XXIX INTERNATIONAL SYMPOSIUM ON MODERN TECHNOLOGIES, EDUCATION AND PROFESSIONAL PRACTICE IN GEODESY AND RELATED FIELDS, İstanbul, Turkey, 5 - 06 November 2019
- IV. **Multi-GNSS Contribution to Single-Frequency Precise Point Positioning**
Bahadur B., Nohutcu M.
XXIX INTERNATIONAL SYMPOSIUM ON MODERN TECHNOLOGIES, EDUCATION AND PROFESSIONAL PRACTICE IN GEODESY AND RELATED FIELDS, İstanbul, Turkey, 5 - 06 November 2019
- V. **Multi-GNSS PPP: An Alternative Positioning Technique for Establishing Ground Control Points**
BAHADUR B., NOHUTCU M.
10th Technical Symposium of the Turkish National Photogrammetry and Remote Sensing Association, Aksaray, Turkey, 25 - 27 April 2019, pp.65-69
- VI. **GNSS Alıcılarındaki Saat Sıçramalarının Tespiti ve Konum Belirleme Performansına Etkisi**
BAHADUR B., NOHUTCU M.
17. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 25 - 27 April 2019

- VII. **Recent Precise Point Positioning Performance of Galileo**
BAHADUR B., NOHUTCU M.
EGU 2019 General Assembly, Vienna, Austria, 6 - 12 April 2019
- VIII. **Çoklu-GNSS Hassas Nokta Konuclamada (PPP) Uyarlı Robust Kalman Filtresi Kullanımı**
Bahadur B., Nohutcu M.
72. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 28 January - 01 February 2019, pp.215-216
- IX. **Çoklu-GNSS Hassas Nokta Konuclamada (PPP) Uyarlı Robust Kalman Filtresi Kullanımı**
BAHADUR B., NOHUTCU M.
72. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 28 January 2019, pp.215-216
- X. **MGEX Ürünlerinin Çoklu-GNSS PPP Performansına Olan Etkisi**
BAHADUR B., NOHUTCU M.
Türkiye Ulusal Jeodezi Jeofizik Birliği Bilimsel Kongresi, İzmir, Turkey, 30 May - 02 June 2018, pp.129-134
- XI. **Türkiye İçin Çoklu-GNSS PPP Performansının Değerlendirilmesi**
BAHADUR B., NOHUTCU M.
Türkiye Ulusal Jeodezi Komisyonu (TUJK) 2017 Yılı Bilimsel Toplantısı, İstanbul, Turkey, 2 - 03 November 2017
- XII. **Advanced Algorithms For Ionosphere Modelling In GNSS Applications within AUDITOR Project**
GOSS A., ERDOĞAN E., Schmidt M., GARCIA RIGO A., HERNANDEZ PAJARES M., LYU H., NOHUTCU M.
EGU General Assembly 2017, VIYANA, Austria, 23 - 28 April 2017, vol.19
- XIII. **Çok Uzun Baz İnterferometrisi VLBI Uzak Jeodezisi Tekniği ile Yer Dönme Parametrelerinin İzlenmesi**
TEKE K., OKAY AHİ G., NOHUTCU M., Gül E., Onur Karşoğlu M., AKYILMAZ O.
TUSAŞ Uzak/Uydu Teknolojileri Çalıştayı, Ankara, Turkey, 11 - 12 November 2015
- XIV. **Comparison of Earth fixed and Sun fixed regional VTEC modeling strategies using GPS observations**
NOHUTCU M., KARSLIOĞLU M. O., Schmidt M.
EGU General Assembly 2010, Viyana, Austria, 2 - 07 May 2010, vol.12
- XV. **Regional VTEC Modeling Over Turkey Using MARS (Multivariate Adaptive Regression Splines)**
KARSLIOĞLU M., Durmaz M., NOHUTCU M.
EGU General Assembly 2010, Viyana, Austria, 2 - 07 May 2010, vol.12
- XVI. **Local Modeling of VTEC Using GPS Observations and B-Spline Expansions**
KARSLIOĞLU M., NOHUTCU M., GÜÇLÜER B., Schmidt M., JIANTONG Z.
EGU General Assembly 2008, Viyana, Austria, 13 - 18 April 2008, vol.10
- XVII. **Local Modeling of TEC Using GPS Observations**
NOHUTCU M., KARSLIOĞLU M. O., GÜÇLÜER B., Schmidt M., ZEILHOFER C., JIANTONG Z., ERGİNTAV S.
TUJK Annual Scientific Meeting 2007: Monitoring and Modeling of the Ionosphere and Troposphere, Ankara, Turkey, 14 - 16 November 2007, pp.33-37
- XVIII. **Estimation of Reliability of Water Distribution Networks**
YILDIZ E., MERZİ N., NOHUTCU M.
6th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 06 October 2004
- XIX. **İçme Suyu Şebekelerinin Güvenirlik Hesabı İçin Bir Metodoloji**
NOHUTCU M., MERZİ N., YILDIZ E.
Türkiye İnşaat Mühendisliği XVII. Teknik Kongre ve Sergisi, İstanbul, Turkey, 15 - 17 April 2004, pp.290-294
- XX. **Reliability of Water Distribution Networks**
MERZİ N., NOHUTCU M., YILDIZ E.
IWRA XI. World Water Congress, Madrid, Spain, 5 - 09 October 2003

Supported Projects

Nohutcu M., Teke K., TUBITAK Project, Çoklu-GNSS PPP Performansının İyileştirilmesi ve Türkiye Kaynaklı İlk Çevrimiçi PPP Servisinin Geliştirilmesi, 2019 - 2022
ANBAROĞLU B., AYDIN C. C., NOHUTCU M., KOCAMAN S., DEMİRER A. O., TEKE K., Project Supported by Higher Education Institutions, Geomatik Mühendisliği Bölümü Eğitim Öğretim Altyapı Olanaklarının İyileştirilmesi, 2017 - 2019

Lopez E., Hernandez Pajares M., Schmidt M., Nohutcu M., Garcia Rigo A., Roma Dollase D., Lyu H., Erdođan E., Goss A., FP1 Project, AUDITOR - Advanced Multi-Constellation EGNSS Augmentation and Monitoring Network and its Application in Precision Agriculture, 2016 - 2018

Teke K., Nohutcu M., Okay Ahi G., TUBITAK Project, Accuracy Improvement of UT1 Parameter Observed by the Space Geodetic Technique, Very Long Baseline Interferometry, 2015 - 2018

Karshođlu M. O., TUBITAK Project, Multi-Resolutional Regional Ionosphere Modeling In Turkey Using GPS Observations, 2006 - 2009

Metrics

Publication: 37

Citation (WoS): 186

Citation (Scopus): 227

H-Index (WoS): 8

H-Index (Scopus): 8

Scholarships

Yurt Dışı Doktora Sonrası Araştırma Bursu, TUBITAK, 2011 - 2012