

## Assoc. Prof. METİN NOHUTCU

### Personal Information

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### 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

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

Under Graduate, 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

Post Graduate, 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

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

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

Research Assistant, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1999 - 2006

### Professional Experience

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

## Advising Theses

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

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

- I. **Real-time single-frequency multi-GNSS positioning with ultra-rapid products**  
BAHADUR B., NOHUTCU M.  
MEASUREMENT SCIENCE AND TECHNOLOGY, vol.32, no.1, 2021 (Journal Indexed in SCI)
- II. **Galileo-based precise point positioning with different MGEX products**  
BAHADUR B., NOHUTCU M.  
MEASUREMENT SCIENCE AND TECHNOLOGY, vol.31, no.9, 2020 (Journal Indexed in SCI)
- III. **Impact of observation sampling rate on Multi-GNSS static PPP performance**  
Bahadur B., Nohutcu M.  
SURVEY REVIEW, 2020 (Journal Indexed in SCI)
- IV. **Integration of variance component estimation with robust Kalman filter for single-frequency multi-GNSS positioning**  
BAHADUR B., NOHUTCU M.  
Measurement: Journal of the International Measurement Confederation, 2020 (Journal Indexed in SCI Expanded)
- V. **Comparative analysis of MGEX products for post-processing multi-GNSS PPP**  
BAHADUR B., NOHUTCU M.  
MEASUREMENT, vol.145, pp.361-369, 2019 (Journal Indexed in SCI)
- VI. **PPPH: a MATLAB-based software for multi-GNSS precise point positioning analysis**  
BAHADUR B., NOHUTCU M.  
GPS SOLUTIONS, vol.22, no.4, 2018 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Analysis of Robust Kalman Filter Methods for Precise Point Positioning**  
Bahadur B., Nohutcu M.  
Harita Dergisi, vol.86, no.164, pp.29-42, 2020 (Other Refereed National Journals)
- II. **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 (Refereed Journals of Other Institutions)

- III. **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 (Other Refereed National Journals)
- IV. **Galileo Temelli Hassas Nokta Konumlama Yönteminin PerformansDeğerlendirmesi: Türkiye Örneği**  
BAHADUR B., NOHUTCU M.  
Harita Dergisi, vol.85, pp.1-11, 2019 (Other Refereed National Journals)
- V. **Türkiye ve Yakın Çevresi İçin Çoklu-GNSS Kombinasyonlarının PPP Performansına Etkisi**  
BAHADUR B., NOHUTCU M.  
Harita Dergisi, vol.84, pp.1-11, 2018 (Other Refereed National Journals)
- VI. **VLBI Intensive Oturumlarının Analizi ile Evrensel Zamanın (UT1) İzlenmesi**  
TEKE K., ÖCAL M. F. , NOHUTCU M., OKAY AHİ G.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.17, pp.1004-1018, 2017 (Other Refereed National Journals)

### Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **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
- IV. **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
- V. **Recent Precise Point Positioning Performance of Galileo**  
BAHADUR B., NOHUTCU M.  
EGU 2019 General Assembly, Vienna, Austria, 6 - 12 April 2019
- VI. **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
- VII. **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
- VIII. **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
- IX. **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, VİYANA, Austria, 23 - 28 April 2017, vol.19
- X. **Çok Uzun Baz İnterferometri VLBI Uzak Jeodezisi Tekniği ile Yer Dönme Parametrelerinin İzlenmesi**  
TEKE K., OKAY AHİ G., NOHUTCU M., Gül E., Onur Karshoğlu M., AKYILMAZ O.  
TUSAŞ Uzak/Uydu Teknolojileri Çalıştayı, Ankara, Turkey, 11 - 12 November 2015

- XI. **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
- XII. **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
- XIII. **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
- XIV. **Local Modeling of TEC Using GPS Observations**  
NOHUTCU M., KARSLIOĞLU M. O. , GÜÇLÜER B., Schmidt M., ZEILHOFER C., JIANTONG Z., ERGİNTAV S.  
TUIJK Annual Scientific Meeting 2007: Monitoring and Modeling of the Ionosphere and Troposphere, Ankara, Turkey, 14 - 16 November 2007, pp.33-37
- XV. **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
- XVI. **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
- XVII. **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, Improvement of Multi-GNSS PPP Performance and Development of the First Online PPP Service of Turkey, 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., Erdoğan 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

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

## Citations

Total Citations (WOS):70

h-index (WOS):5

## Scholarships

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