

Prof. Atınc PIRTI

Personal Information

Office Phone: [+90 212 383 5300](tel:+902123835300)

Web: <https://avesis.yildiz.edu.tr/atinc>

International Researcher IDs

ORCID: 0000-0001-9197-3411

Publons / Web Of Science ResearcherID: AAG-8998-2019

ScopusID: 35615668100

Yoksis Researcher ID: 174516

Education Information

Doctorate, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, Turkey 1998 - 2005

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Geotechnical Engineering, Measuring Technique, GPS-GNSS, Ground Measurements, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, 2016 - Continues

Academic and Administrative Experience

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the Mw 7.3 earthquake in Tonga Islands, Pacific Ocean, 11 November 2022**
PIRTI A., YÜCEL M. A., HOŞBAŞ R. G.
Baltica, vol.37, no.1, pp.59-65, 2024 (SCI-Expanded)
- II. **Investigation of the ground effects of Mw7.8 and Mw7.5 Maraş doublet earthquake on the south-east region (Bitlis-Zagros fold-thrust belt) of Turkey**
PIRTI A.
Baltica, vol.37, no.1, pp.39-46, 2024 (SCI-Expanded)
- III. **Investigation and prediction of the 2010 Maule, Chile earthquake by using GNSS on 25, 26 and 27 February 2010**
PIRTI A.
Journal of South American Earth Sciences, vol.133, 2024 (SCI-Expanded)

- IV. **Evaluating the Accuracy of Determining Coordinates of Corners of the Building Surveyed in Tilt Technology**
Pırtı A., Yücel M. A.
KSCE Journal of Civil Engineering, vol.27, no.6, pp.2629-2636, 2023 (SCI-Expanded)
- V. **Examination of the Earthquake (Samos Island) in Izmir (30.10.2020) by Using Cors-Tr GNSS Observations and InSAR Data**
Pırtı A., Hoşbaşı R. G., Yücel M. A.
KSCE JOURNAL OF CIVIL ENGINEERING, vol.27, no.1, pp.135-144, 2023 (SCI-Expanded)
- VI. **EVALUATION OF THE PERFORMANCE BETWEEN POST PROCESS KINEMATIC AND STATIC TECHNIQUE IN THE FOREST ENVIRONMENT**
PIRTI A., HOŞBAŞ R. G.
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- VII. **Monitoring the Structural Deformation of Davutpasa Barrack by Using Geodetic Methods**
ATA E., HOŞBAŞ R. G., PIRTI A.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.25, no.3, pp.944-947, 2018 (SCI-Expanded)
- VIII. **THE SEASONAL EFFECTS OF DECIDUOUS TREE FOLIAGE IN CORS-GNSS MEASUREMENTS (VRS/FKP)**
PIRTI A.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.23, no.3, pp.769-774, 2016 (SCI-Expanded)
- IX. **TRANSRAPID AND THE TRANSITION CURVE AS SINUSOID**
PIRTI A., YÜCEL M. A., ÖCALAN T.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.23, no.1, pp.315-320, 2016 (SCI-Expanded)
- X. **AN ALTERNATIVE METHOD FOR POINT POSITIONING IN THE FORESTED AREAS**
PIRTI A., TUNALIOĞLU N., ÖCALAN T., HOŞBAŞ R. G.
SUMARSKI LIST, vol.140, pp.155-163, 2016 (SCI-Expanded)
- XI. **MULTIPATH AND MULTIPATH REDUCTION IN THE OBSTRUCTED AREAS BY USING ENHANCED STROBE CORRELATOR (ESC) TECHNIQUE**
Pırtı A.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.22, no.2, pp.509-519, 2015 (SCI-Expanded)
- XII. **TESTING REAL TIME KINEMATIC GNSS (GPS AND GPS/GLONASS) METHODS IN OBSTRUCTED AND UNOBSTRUCTED SITES**
PIRTI A., YÜCEL M. A., GUMUS K.
GEODETSKI VESTNIK, vol.57, no.3, pp.498-512, 2013 (SSCI)
- XIII. **ON THE PERFORMANCE OF GNSS LEVELLING OVER STEEP SLOPES**
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- XIV. **EVALUATING THE REPEATABILITY OF RTK GPS MEASUREMENTS USING ANALYSIS OF VARIANCE**
PIRTI A.
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- XV. **THE FOURTH DEGREE PARABOLA (BI-QUADRATIC PARABOLA) AS A TRANSITION CURVE**
PIRTI A., YUECEL M. A.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.19, no.1, pp.19-26, 2012 (SCI-Expanded)
- XVI. **EVALUATING THE REPEATABILITY OF RTK GPS**
PIRTI A.
SURVEY REVIEW, vol.43, no.320, pp.177-186, 2011 (SCI-Expanded)
- XVII. **Evaluating Repeatability of RTK GPS/GLONASS Near/Under Forest Environment**
PIRTI A., GÜMÜŞ K., ERKAYA H., HOŞBAŞ R. G.
CROATIAN JOURNAL OF FOREST ENGINEERING, vol.31, no.1, pp.23-33, 2010 (SCI-Expanded)
- XVIII. **Real-Time Kinematic Gps for cadastral surveying**
PIRTI A., ARSLAN N., DEVECİ B., AYDIN O., ERKAYA H., HOŞBAŞ R. G.
Survey Review, vol.41, no.314, pp.339-351, 2009 (SCI-Expanded)
- XIX. **Multipath and Multipath Reduction in the Urban Environments (Especially for L1 Signal Processing)**

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GEODETSKI LIST, vol.63, no.4, pp.301-313, 2009 (SCI-Expanded)

- XX. **Evaluating the Usage of RTK GPS Technique in the Control of Highway Geometry**
PIRTI A.
GEODETSKI LIST, vol.62, no.4, pp.237-248, 2008 (SCI-Expanded)
- XXI. **Accuracy Analysis of GPS Positioning Near the Forest Environment**
PIRTI A.
CROATIAN JOURNAL OF FOREST ENGINEERING, vol.29, no.2, pp.189-199, 2008 (SCI-Expanded)
- XXII. **Performance analysis of the real time kinematic GPS (RTK GPS) technique in a highway project (stake-out)**
PIRTI A.
SURVEY REVIEW, vol.39, no.303, pp.43-53, 2007 (SCI-Expanded)
- XXIII. **Using GPS near the forest and quality control**
PIRTI A.
SURVEY REVIEW, vol.38, no.298, pp.286-298, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of the displacements of CORS-TR stations before (05.02.2023) and after the Maraş-Hatay earthquakes (01.03.2023) in Turkey**
Pirti A.
ARABIAN JOURNAL OF GEOSCIENCES, vol.17, no.195, pp.1-14, 2024 (Peer-Reviewed Journal)
- II. **EVALUATION OF THE PERFORMANCE OF MULTI-GNSS ADVANCED ORBIT AND CLOCK AUGMENTATION – PRECISE POINT POSITIONING (MADCOA-PPP) IN JAPAN REGION**
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GEODESY AND CARTOGRAPHY, vol.50, no.1, pp.1-6, 2024 (Scopus)
- III. **TESTING THE CONTRIBUTION, ACCURACY AND PERFORMANCE OF MGEX (GNSS (GPS+GLONASS+GALILEO+BEIDOU+QZSS)) POSITIONING IN THE STUDY REGION**
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GEODESY AND CARTOGRAPHY, vol.49, no.4, pp.222-232, 2023 (Scopus)
- IV. **Monitoring of Icelandic plate movement with GNSS method and GPS signal jamming effects in Iceland**
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- V. **Evaluation of the Accuracy and Performance of Multi-GNSS (MGEX) Positioning for Long Baselines by Using Different Software**
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- VI. **Investigation the effects of earthquake in Golcuk-Izmit (17 Aug 1999) by using GPS**
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- VII. **An investigation into the accuracy of the direction of the qibla in three historical mosques in Edirne, Turkey**
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- VIII. **Determining the location of Malaysia Airlines Flight MH370**
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- IX. **NETWORK REAL TIME KINEMATIC (CORS-FKP METHOD) ACCURACY IN/UNDER FOREST AREA**
Pirti A., Kurtulgu Z.
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- X. **TESTING THE EXCAVATOR PERFORMANCE (USING TOPCON 3D EXCAVATOR X63 SYSTEM) ESPECIALLY FOR NAVIGATION AND EARTHWORK**
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- XI. **IRNSS (NavIC) uyduları ve sinyal yapıları**
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- XII. **GPS signal jamming effect in Svalbard Island and its elimination by using GLONASS, Galileo and Beidou satellites**
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Geodesy, Cartography and Aerial Photography, vol.98, no.2, pp.5-14, 2023 (Peer-Reviewed Journal)
- XIII. **A DETERMINATION OF THE MOTION BASED ON GNSS OBSERVATIONS BETWEEN 2000 AND 2021 BY USING THE IGS POINTS ON THE POLAR REGIONS**
PIRTI A.
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- XIV. **A METHOD FOR THE STAKE-OUT OF THE SEATS IN THE CONFERENCE ROOM**
ATA E., HOŞBAŞ R. G., PIRTI A.
GEODESY AND CARTOGRAPHY, vol.48, no.3, pp.185-192, 2022 (Scopus)
- XV. **Evaluating Repeatability of RTK (GPS and Galileo/GPS) performance in the analysis of points located in areas with and without obstructions**
PIRTI A., Yucel M. A.
REPORTS ON GEODESY AND GEOINFORMATICS, vol.113, no.1, pp.11-20, 2022 (ESCI)
- XVI. **QZSS uyduları ve sinyal yapıları**
PIRTI A., Şimşek M., ÖRS GÜNDOĞAN Z.
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- XVII. **Evaluation web-based GNSS software in terms of accuracy**
PIRTI A., Yazici D.
GEOMATİK, vol.7, no.2, pp.88-105, 2022 (ESCI)
- XVIII. **Using Simpson's Rule in different transition curves**
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- XIX. **INVESTIGATION OF GPS POSITIONING ACCURACY NEAR A DECIDUOUS FOREST AREA**
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- XX. **Displacements at the Riga and Visby IGS Stations in/nearby Baltic Sea Region**
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- XXI. **Evaluating the accuracy of post-processed kinematic (Ppk) positioning technique**
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- XXII. **Galileo Satellite System and Signal Structure**
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- XXIII. **Sürekli Gözlem Yapan Referans İstasyonları (CORS (Sanal Referans İstasyonu-Lineer Alan Düzeltme Tekniği)) Kullanılarak Yapılaşmış ve Ağaçlık Bölgelerdeki Konum Belirlemenin Doğruluk Analizi**
PIRTI A., KURTULGU Z.
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- XXIV. **Madencilik Çalışmalarında Sismik Veri Toplama Ve Uydu Ölçme Tekniklerinin Analizi**
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- XXV. **Performance of CORS techniques (VRS and FKP) method in Istanbul Metropolitan City**
PIRTI A., HOŞBAŞ R. G.
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- XXVI. **MILLIMETER LEVEL ACCURACY POINT POSITIONING IN WOODLAND AREA BY USING HYBRID METHOD**
Pırtı A.
Forestry Ideas, vol.28, no.1, pp.119-131, 2020 (Scopus)
- XXVII. **PARSELLERİN BÖLÜNMESİ (İFRAZINDA) VE PARSEL KIRIK SINIRLARININ DÜZELTİLMESİNDE DİK KOORDİNATLARA DAYALI KESİN YÖNTEM**
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Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.9, no.2, pp.913-930, 2020 (Peer-Reviewed Journal)
- XXVIII. **Seismic Data Acquisition in Mining Exploration and Analysis of Using Surveying Techniques**
Pırtı A., Ozdemir H. E., Hosbas R. G.
GEOMATİK, vol.5, no.3, pp.160-171, 2020 (ESCI)
- XXIX. **ROLE OF CORS RTK (NETWORK RTK) MODE MEASUREMENTS IN DETERMINATION OF THE FOREST BOUNDARY: A CASE STUDY OF ISKI-CORS**
PIRTI A., HOŞBAŞ R. G.
Forestry Ideas, vol.25, no.2, pp.394-403, 2019 (Scopus)
- XXX. **Evaluation of some levelling techniques in surveying application**
Pırtı A., Hoşbaş R. G.
GEODESY AND CARTOGRAPHY, vol.68, pp.361-373, 2019 (Peer-Reviewed Journal)
- XXXI. **Biri Doğuda Diğeri Batıda, İki Rasathane, İki Rasıt ve Bir Kuyruklu Yıldız**
HOŞBAŞ R. G., PIRTI A.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.19, no.3, pp.787-795, 2019 (Peer-Reviewed Journal)
- XXXII. **Uydu Bazlı Konum Belirleme Sistemlerindeki Gelişmeler**
PIRTI A., HOŞBAŞ R. G., ERKAYA H.
Ged Gayrimenkul ve Enformasyon Dünyası, 2012 (Peer-Reviewed Journal)
- XXXIII. **Geçiş eğrisi olarak 4 dereceden Parabol**
PIRTI A.
Harita Ve Kadastro Mühendisleri Odası Jeodezi ve Jeoinformasyon ve Arazi Yönetimi Dergisi, pp.31-39, 2009 (Peer-Reviewed Journal)
- XXXIV. **Yeni Nesil Ölçme Sistemi ve Evrik GNSS**
TELLİ A., PIRTI A., HOŞBAŞ R. G.
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- XXXV. **Klasik Yöntemle Üretilmiş Kontrol Noktalarının Poligon Noktaları GPS Koordinatları ile Karşılaştırılmasına İlişkin Bir Uygulama**
PIRTI A.
Harita Ve Kadastro Mühendisleri Odası Jeodezi ve Jeoinformasyon ve Arazi Yönetimi Dergisi, 2005 (Peer-Reviewed Journal)
- XXXVI. **RTK GPS Sisteminin Poligon Ölçmelerinde Kullanılması**
AYDIN Ö., ATA E., PIRTI A.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.22, no.1, pp.56-63, 2004 (Peer-Reviewed Journal)
- XXXVII. **RTK GPS Sisteminin Poligon Ölçmelerinde Kullanımı**
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Sigma Mühendislik ve Fen Bilimleri Dergisi, 2004 (Peer-Reviewed Journal)
- XXXVIII. **Geçiş Eğrisi olarak Sinüzoid**
PIRTI A.
Yıldız Teknik Üniversitesi Dergisi, 2000 (Peer-Reviewed Journal)

XXXIX. Simpson Kuralının Geçiş Eğrileri Uygulamalarında Kullanımı

PIRTI A., Aydın Ö.

ıldız Teknik Üniversitesi Dergisi, 2000 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluating the Repeatability of RTN GNSS (CORS-GNSS)**
PIRTI A., HOŞBAŞ R. G.
XXIX International Symposium on "Modern Technologies, Education and Professional Practice in Geodesy and Related Fields", İstanbul, Turkey, 5 - 06 November 2019, vol.1, no.15, pp.27
- II. **Surveying Instruments Used in Roman Civilization**
HOŞBAŞ R. G., PIRTI A., ATA E.
XXVI. FIG CONGRESS 2018, İstanbul, Turkey, 6 - 11 May 2018
- III. **Testing Height Accuray in CORS-TR Technique**
ATA E., PIRTI A., HOŞBAŞ R. G.
XXVI FIG CONGRESS 2018, İstanbul, Turkey, 6 - 11 May 2018
- IV. **Evaluation of the Accuracy and Performance of GPS/GNSS Antennas**
PIRTI A., HOŞBAŞ R. G., ATA E.
XXVI. FIG CONGRESS 2018, İstanbul, Turkey, 6 - 11 May 2018
- V. **Comparison Of VRS and FKP Techniques In Different Application Fields**
KURTULGU Z., PIRTI A.
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- VI. **Multipah Mitigation using the Bandpass Filter Technique for GPS Applications**
PIRTI A.
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- VII. **Evaluation of the Height Accuracy of Some Levelling Techniques**
PIRTI A., ATA E.
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONSIN GEOGRAPHY GEOSCIENCES, 18 - 21 October 2017
- VIII. **Investigating the Accuracy Analysis of Single Baseline RTK**
PIRTI A., ATA E.
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONSIN GEOGRAPHY GEOSCIENCES, 18 - 21 October 2017
- IX. **Mesleki Yeterlilik Sistemi Kapsamında Topoğraf Ulusal YeterliliğininDeğerlendirilmesi**
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- X. **Ormanlık Alanlarda Kullanılabilecek Alternatif Konum Belirleme Yöntemlerininİncelenmesi**
PIRTI A.
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- XI. **Millimeter Level Point Positioning in Forested Area**
PIRTI A.
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- XII. **Testing CORS System for Cadastral Surveying**
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- XIII. **Ulusal Mesleki Yeterlilik Sisteminin Harita Sektörüne Getirdikleri ve Durum Analizi**
ÖCALAN T., PIRTI A.
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- XIV. **Alibey Barajında Düşey Değişimlerin Hassas Geometrik Nivelman Yöntemiyle İzlenmesi 2007 2014**

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7.Ulusal Mühendislik Ölçmeleri Sempozyumu, Çorum, Turkey, 15 - 17 October 2014

- XV. **Alibey Barajında Düşey Değişimlerin Hassas Geometrik Nivelman Yöntemiyle İzlenmesi Haziran 2007 Haziran 2014 Yılları Arası**
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7. Ulusal Mühendislik Ölçmeleri Sempozyumu TMMOB Harita ve Kadastro Müh. Odası ve Hitit Üniv. MYO, Çorum, Turkey, 15 - 17 October 2014
- XVI. **TARİHİ DAVUTPAŞA KIŞLASINDA YAPISAL DEFORMASYONLARIN JEODEZİK YÖNTEMLERLE İZLENMESİ**
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6.Mühendislik Ölçmeleri Sempozyumu, afyon, Turkey, 3 - 05 October 2012
- XVII. **Tarihi Davutpaşa Kışlasında Yapısal Deformasyonların Jeodezik Yöntemlerle İzlenmesi**
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- XVIII. **Barajların Yakın Çevrelerindeki Zemin Hareketlerinin Jeodezik Yöntemlerle İzlenmesi**
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- XIX. **What is Our Strategy to Perform a Sustainable Development in Education and Research Activities of Our Department**
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- XX. **Dam Safety and Deformation Monitoring**
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- XXII. **Beton Kemer Barajlarda Deformasyonların Modern Ölçme Teknikleri İle Belirlenmesi**
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12. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 11 - 15 May 2009, pp.1
- XXIII. **ALİBEY BARAJINDA DÜŞEY DEĞİŞİMLERİN HASSAS GEOMETRİK NİVELMAN YÖNTEMİYLE İZLENMESİ (2007 – 2014 YILLARI ARASI)**
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3. Ulusal Mühendislik Ölçmeleri Sempozyumu, Konya, Turkey, 24 October 2007, pp.1
- XXIV. **Using RTK GPS System near the Forest and under the trees**
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- XXV. **Investigation the accuracy of RTK GPS in Multipath Environment**
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- XXVI. **Reduction of the Multipath Effects Antennas**
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- I. Ulusal Mühendislik Ölçmeleri Sempozyumu, İstanbul, Turkey, 30 - 31 October 2003, pp.1
- XXVIII. **GPS ile Ölçülen Baz vektörü ve Elipsoidal yükseklik Farkı Doğruluğunun Ölçü Süresine Bağlı olarak Araştırılması**
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I. Ulusal Mühendislik Ölçmeleri Sempozyumu, İstanbul, Turkey, 30 - 31 October 2003, pp.1
- XXIX. **The Criteria for Selecting Reference Points in RTK GPS Survey**
PIRTI A.
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- XXX. **Signal Attenuation of Forest Area for GPS Accuracy**
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