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International Researcher IDs

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Education Information

Doctorate, İstanbul Technical University, İnşaat Fakültesi, Geomatik Mühendisliği Bölümü, Turkey 2003 - 2012

Postgraduate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Geodesy and Photogrammetry Engineering, Turkey 2001 - 2003

Undergraduate, İstanbul Technical University, İnşaat, Department of Geodesy and Photogrammetry Engineering, Turkey 1997 - 2001

Foreign Languages

English

Academic Titles / Tasks

Research Assistant, İstanbul Technical University, İnşaat Fakültesi, Geomatik Mühendisliği Bölümü, 2001 - Continues

Research Assistant, Purdue University, Electrical And Computer Engineering Faculty, Electrical Engineering, 2010 - 2011

Academic and Administrative Experience

Visiting Faculty Member, Université de Djibouti, Faculty of Engineering, Civil Engineering, 2016 - Continues

assistant Secretary General, İstanbul Technical University, 2016 - 2020

Coordination of Scholarships and Dormitories, İstanbul Technical University, 2016 - 2020

Head of Department, İstanbul Technical University, Beden Eğitimi Bölümü, 2016 - 2016

Vice Dean, İstanbul Technical University, İnşaat, Vice Dean, 2015 - 2016

Deputy Head of Department, İstanbul Technical University, Beden Eğitimi Ve Spor Bölümü, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. Monitoring aseismic creep trends in the İsmetpasa and Destek segments throughout the North Anatolian Fault (NAF) with a large-scale GPS network

Yavaşoğlu H. H., Alkan M. N., Bilgi S., Alkan O.

GEOSCIENTIFIC INSTRUMENTATION METHODS AND DATA SYSTEMS, vol.9, no.1, pp.25-40, 2020 (SCI-Expanded)

- II. **Site selection of the Turkish Antarctic Research station using Analytic Hierarchy Process**
 Yavaşoğlu H. H., Karaman H., Özsoy B., Bilgi S., Tutak B., Gülnerman Gengeç A. G., Oktar Ö., Yirmibeşoğlu S.
 POLAR SCIENCE, vol.22, 2019 (SCI-Expanded)
- III. **DETERMINATION OF RESERVOIR SEDIMENTATION WITH BATHYMETRIC SURVEY: A CASE STUDY OF OBRUK DAM LAKE**
 İLÇİ V., OZULU İ. M., Alkan R. M., Erol S., UYSAL M., Kalkan Y., Bilgi S., Şeker D. Z.
 FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.3, pp.2305-2313, 2019 (SCI-Expanded)
- IV. **THE USAGE OF UNMANNED AERIAL VEHICLES (UAVs) FOR 3D MAPPING OF ARCHAEOLOGICAL SITES**
 İLÇİ V., OZULU İ. M., Bilgi S., Alkan R. M.
 FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.968-974, 2019 (SCI-Expanded)
- V. **A NEW APPROACH FOR QUANTITATIVE MEASURE OF URBAN COMPLEXITY BY METRIC ENTROPY METHOD**
 Bilgi S.
 FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.125-131, 2017 (SCI-Expanded)
- VI. **Assessment of Vertical Deformation of the Ataturk Dam Using Geodetic Observations**
 Kalkan Y., Potts L. V., BILGI S.
 JOURNAL OF SURVEYING ENGINEERING, vol.142, no.2, 2016 (SCI-Expanded)
- VII. **Map entropy analysis of topographic data used in disaster information systems**
 Bilgi S., İpbüker C., UCAR D., SAHİN M.
 JOURNAL OF EARTHQUAKE ENGINEERING, vol.12, pp.23-36, 2008 (SCI-Expanded)
- VIII. **Monitoring of deformations along Burdur Fethiye fault zone with GPS**
 Erdogan S., SAHİN M., YAVASOGLU H. H., Tiryakioglu I., ERDEN T., KARAMAN H., TARI E., BILGI S., Tuysuz O., Baybura T., et al.
 JOURNAL OF EARTHQUAKE ENGINEERING, vol.12, pp.109-118, 2008 (SCI-Expanded)
- IX. **Monitoring of deformations along Fethiye Burdur fault zone Turkey withGPS**
 ERDOĞAN S., ŞAHİN M., YAVAŞOĞLU H., KARAMAN H., ERDEN T., BİLGİ S., Rüzgar G., Tarı E., COŞKUN M. Z., TÜYSÜZ O., et al.
 Geodetic Deformation Monitoring: From Geophysical to Engineering Roles, vol.131, pp.152-159, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **COMPLEXITY MEASURES OF SPORTS FACILITIES ALLOCATION IN URBAN AREA BY METRIC ENTROPY AND PUBLIC DEMAND COMPATIBILITY**
 Bilgi S., Gülnerman Gengeç A. G., Arslanoğlu B., Karaman H., ÖZTÜRK Ö.
 INTERNATIONAL JOURNAL OF ENGINEERING AND GEOSCIENCES, vol.4, no.3, pp.141-148, 2019 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Usability of 3D Models Generated Using Optic Historical Images in Cultural Heritage Documentation Studies**
 YAKAR İ., SELBESOĞLU M. O., BİLGİ S.
 Frontiers in Optics + Laser Science 2021, Washington, Kiribati, 01 November 2021
- II. **A Review on the Usability of Mobile Phone-based Close-Range Photogrammetry, Terrestrial Laser Scanning and UAVs in Traffic Accident Modeling**
 Yakar İ., Kanun E., Oğuz G. M., Bozduman Ş., Bilgi S., Karataş K.
 Intercontinental GeoInformation Days, 25 - 26 November 2020, pp.12-16
- III. **Data Fusion of Unmanned Aerial Vehicle (UAV)-Based Photogrammetry and Close-Range Photogrammetry in Historical Sites Monitoring**

- Yakar İ., Hamal S. N. G., Öztürk İ. L., Çelik M. Ö., Bilgi S.
Intercontinental Geoinformation Days, 25 - 26 November 2020, pp.112-115
- IV. **A Comparative Analysis of Speeded Up Robust Features (SURF) and Harris Algorithms in Point Cloud Generation**
Kuçak R. A., Yakar İ., Bilgi S., Erol S., Dervişoğlu A.
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- V. **MOBİL TELEFONLAR KULLANILARAK ELDE EDİLEN 3 BOYUTLU MODELLERİN KÜLTÜREL MİRASIN KORUNMASI KAPSAMINDA KULLANILABİLİRLİĞİ: III. AHMET ÇEŞMESİ ÖRNEĞİ**
YAKAR İ., BİLGİ S.
X. TUFUAB TEKNİK SEMPOZYUMU, Aksaray, Turkey, 25 April 2019, pp.82-85
- VI. **LAND SURFACE TEMPERATURE MAPPING BY THE USE OF REMOTE SENSING AND GIS: CASE STUDY OF ISTANBUL METROPOLITAN AREA**
YAKAR İ., BİLGİ S.
X. TUFUAB TEKNİK SEMPOZYUMU, Turkey, 25 April 2019
- VII. **ACCESSIBILITY ANALYSIS OF STREET NETWORKS USING SPACE SYNTAX**
ÖZTÜRK Ö., GÜLGEN F., BİLGİ S., KILIÇ B.
7th International Conference on Cartography GIS, SOZOPOL, Bulgaria, 18 - 23 June 2018, vol.1, pp.352-360
- VIII. **3D Shoreline Mapping with Unmanned Aerial Vehicle**
UYDAL M., İLÇİ V., OZULU İ. M., EROL S., POLAT N., KALKAN Y., BİLGİ S., ŞEKER D. Z., ALKAN R. M.
Proc. on FIG Congress 2018, Embracing Our Smart World Where the Continents Connect: Enhancing the Geospatial Maturity of Societies, 6 - 11 May 2018
- IX. **The Dams and Monitoring Systems and Case Study: Ataturk and Karakaya Dams**
KALKAN Y., BİLGİ S., GÜLNERMAN A. G.
American Geophysical Union 2017, 11 - 15 December 2017
- X. **Navigation System for Blind, Hearing and Visually Impaired People in ITU Ayazaga Campus**
Bilgi S., ÖZTÜRK Ö., Gülnerman Gengeç A. G.
International Conference on Computing Networking and Informatics (ICCNI), Ota, Japan, 29 - 31 October 2017
- XI. **Sediment Monitoring In Dams with Bathymetric Survey for the Management of Natural Water Resources: Obruk Lake Dam Case**
İLÇİ V., OZULU İ. M., ALKAN R. M., EROL S., UYSAL M., KALKAN Y., BİLGİ S., ŞEKER D. Z.
The 19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region-MESAEP 2017, 4 - 06 October 2017
- XII. **Analyzing Impact Area of OSYM Offices in Istanbul by IDW Method**
ÖZTÜRK Ö., BİLGİ S., GÜLNERMAN A. G., KALKAN Y.
American Geophysical Union 2016, San-Francisco, Costa Rica, 12 - 16 December 2016
- XIII. **Analyzing Spatial Distribution of OSYM Offices in Istanbul Due to the Service Areas**
ÖZTÜRK Ö., BİLGİ S., GÜLNERMAN A. G.
International Scientific Conference on Applied Sciences ISCAS 2016, Antalya, Turkiye, Antalya, Turkey, 27 - 30 September 2016
- XIV. **Deformation Monitoring Studies and GPR Measurements on Dams**
KALKAN Y., BİLGİ S.
American Geophysical Union 2015, San-Francisco, Costa Rica, 14 - 18 December 2015
- XV. **A New Approach for Quantitative Measure of Urban Complexity by Metric Entropy Method**
BİLGİ S.
Mediterranean Scientific Association of Environmental Protection, Creteil, France, 26 - 30 September 2015
- XVI. **Evaluation of the Spatial Location of Sports Facilities by Metric Entropy Method**
Bilgi S., Arslanoğlu B., Kumral M.
ISSSET 2015, İstanbul, Turkey, 10 - 13 May 2015, pp.2
- XVII. **Deformation Monitoring and Bathymetry Analyses in Rock Fill Dams a Case Study at Ataturk Dam**
KALKAN Y., BİLGİ S.
American Geophysical Union 2014, San-Francisco, Costa Rica, 15 - 19 December 2014

- XVIII. **Dam Safety and Deformation Monitoring in Dams**
KALKAN Y., BİLGİ S., POTTS L., MIIMA J., MAHGOUB M., SAHIDUR R.
American Geophysical Union 2013, San-Francisco, Costa Rica, 9 - 13 December 2013
- XIX. **Evaluation of Spatial Information on Maps**
BİLGİ S., İPBÜKER C., ERSOY O. K.
15th International Convention and Fair Informatica 2013, Havana, Cuba, 18 - 22 March 2013
- XX. **Geodetic and Non-Geodetic Methods for Deformation Monitoring of Rock-Fill Dams, a Case Study at Ataturk Dam**
KALKAN Y., BİLGİ S.
American Geophysical Union 2012, San-Francisco, Costa Rica, 3 - 07 December 2012
- XXI. **Deformasyon İzleme Teknikleri Atatürk Barajı Örneği**
BİLGİ S., KALKAN Y.
6. Mühendislik Ölçmeleri Sempozyumu, Afyon Kocatepe Üniversitesi, Turkey, 3 - 05 October 2012
- XXII. **Latest Results of Landslide Deformation Project in Harbor of Ambarlı Region**
BİLGİ S., KALKAN Y.
FIG Working Week, Marrakech-Morocco, MOROCCO, 18 - 22 May 2011
- XXIII. **Deformation Monitoring Studies at Atatürk Dam**
KALKAN Y., ALKAN R. M., BİLGİ S.
XXIV. FIG International Congress 2010, Sydney, Australia, 11 - 16 April 2010
- XXIV. **Ambarlı Liman Bölgesinde Heyelan İzleme Çalışmalarında Son Durum**
KALKAN Y., ALKAN R. M., BİLGİ S.
4. Ulusal Mühendislik Ölçmeleri Sempozyumu, Trabzon, Turkey, 14 - 16 October 2009, pp.353-364
- XXV. **Entropy Analysis of Images Used In Disaster Information Systems**
BİLGİ S., İPBÜKER C.
TIEMS 16th Annual Conference, İstanbul, 9 - 11 June 2009
- XXVI. **Deformation Monitoring of Atatürk Dam**
KALKAN Y., ALKAN R. M., BİLGİ S.
TIEMS 2009 Annual Conference, İstanbul, Turkey, 9 - 11 June 2009, pp.300-310
- XXVII. **GIS and Cartography for Mountain Activities and Natural Resources**
SELÇUK M., BAŞARANER A. M., ULUÇTEKİN N. N., GÖKGÖZ T., GÜLGEN F., YÜCEL M. A., DOĞRU A. Ö., BİLGİ S., ÇETİNKAYA S., UÇAR D.
International Conference on Cartography and GIS, 21 - 24 January 2008, pp.293-300
- XXVIII. **Dağcılık Faaliyetlerine Yönelik Coğrafi Bilgi Sistemi Oluşturulması ve Tematik Harita Üretimi**
SELÇUK M., BAŞARANER A. M., ULUÇTEKİN N. N., GÖKGÖZ T., GÜLGEN F., YÜCEL M. A., DOĞRU A. Ö., BİLGİ S., UÇAR D.
TMMOB Harita ve Kadastro Mühendisleri Odası Ulusal Coğrafi Bilgi Sistemleri Kongresi, Turkey, 30 October - 02 November 2007, vol.2, pp.742-747
- XXIX. **Burdur Fethiye Fay Zonu Tektonik Hareketlerin GPS ile Belirlenmesi**
ERDOĞAN S., ŞAHİN M., TARI E., TÜYSÜZ O., COŞKUN M. Z., TİRYAKIOĞLU İ., YAVAŞOĞLU H. H., TAKTAK F., TELLİ A. K., GÜLLÜ M., et al.
3. Ulusal Mühendislik Ölçmeleri Sempozyumu, Turkey, 24 - 26 October 2007
- XXX. **An Entropic Evaluation of Topographic Data Used in Disaster Information Systems**
BİLGİ S., İPBÜKER C.
International Symposium on Earthquake Loss Estimation for Turkey, İstanbul, İstanbul, Turkey, 24 - 26 September 2007
- XXXI. **Geodetic Monitoring in The Biggest Dam Of Turkey Ataturk Dam**
BİLGİ S., KALKAN Y., YALIN D., ERDEN T., YAVAŞOĞLU H. H.
Modern Technologies, Education And Professional Practice In Geodesy And Related Fields, 9 - 10 November 2006
- XXXII. **Creating Basic Spatial-Topographic Object Model for ITU-ACDIS**
BİLGİ S., İPBÜKER C.
International Conference on Cartography and GIS, BOROVETS, Bulgaria, 25 - 28 January 2006

- XXXIII. **Disaster Information System of TURKEY TABIS GIS Standards**
 ŞAHİN M., Uçar D., TARI E., İPBÜKER C., COŞKUN M. Z., MUSAOĞLU N., KAYA Ş., ERDEN T., KARAMAN H., YAVAŞOĞLU H. H., et al.
 1st International Workshop on An Earthquake Loss Estimation Program for Turkey, 1 - 02 December 2005
- XXXIV. **Forming The Geodetic Infrastructure of Engineering Projects by GPS and Different Levelling Methods**
 ALKAN R. M., KALKAN Y., BİLGİ S.
 International Symposium on Modern Technologies, Education And Professional Practice In Geodesy And Related Fields, Sofija, Bulgaria, 3 - 04 November 2005, pp.169-178
- XXXV. **Applications of Global Positioning System GPS in Geodynamics With Three Examples From Turkey**
 YAVAŞOĞLU H. H., TARI E., ŞAHİN M., KARAMAN H., ERDEN T., BİLGİ S., ERDOĞAN S.
 Recent Advances in Space Technologies RAST, 9 - 11 June 2005
- XXXVI. **Küresel Rotaların Uygun Kartografik Gösterimi**
 BİLGİ S., İPBÜKER C.
 TMMOB Harita ve Kadastro Müh. Odası 10.Sürekli ve Bilimsel Tek. Kurult, ODTÜ, Ankara, Ankara, Turkey, 28 March - 01 April 2005
- XXXVII. **CBS Etiği**
 BİLGİ S., İPBÜKER C.
 TMMOB Harita ve Kadastro Müh. Odası 10.Sürekli ve Bilimsel Tek. Kurult, Ankara, Turkey, 28 March - 01 April 2005
- XXXVIII. **GPS measurements along the North Anatolian Fault zone on the mid-Anatolia segment**
 Yavaşoğlu H. H., Tarı E., Karaman H., Şahin M., BAYKAL O., Erden T., Bilgi S., RUZGAR G., INCE C. D., ERGINTAV S., et al.
 IAG Symposium on Geodetic Deformation Monitoring - From Geophysical to Engineering Roles, Jaen, Spain, 17 - 19 March 2005, vol.131, pp.166-171
- XXXIX. **Kuzey Anadolu Fayının Orta Anadolu bölümünün GPS ölçmeleriyle güncel tektonik özelliklerinin belirlenmesi**
 YAVAŞOĞLU H., Baykal O., BİLGİ S., Çakmak R., ERDEN T., ERGİNTAV S., İNCE C. D., KARAMAN H., TARI E., TARI U., et al.
 Türkiye Kuvatneri Çalıştayı IV, İstanbul, Turkey, 29 - 30 May 2003, pp.31-36
- XL. **Kuzey Anadolu Fayının Orta Anadolu bölümünün GPS ölçmeleri ile güncel tektonik özelliklerinin belirlenmesi**
 Yavaşoğlu H. H., BAYKAL O., Bilgi S., CAKMAK R., Erden T., ERGİNTAV S., İNCE C. D., Karaman H., Tarı E., Tarı U., et al.
 ATAG-6, Ankara, Turkey, 21 - 22 November 2002, pp.79-83
- XLI. **GIS Standards of Turkey based on Emergency Management**
 Baykal O., Bilgi S., Coşkun Z., Erden T., Göksel Ç., İpbüker C., Karaman H., Kaya Ş., Musaoğlu N., Şahin M., et al.
 International Symposium on GIS, İstanbul, Turkey, 23 - 26 September 2002

Supported Projects

Bilgi S., Project Supported by Higher Education Institutions, Kentsel Alanlarda Karmaşıklığın Nicel Olarak Belirlenmesi, 2013 - 2019

Mobility Activity

Research Scholarship Program, Research During Graduate Education, Purdue University, United States Of America, 2010 - 2010

Metrics

Publication: 73

Citation (WoS): 34

Citation (Scopus): 43

H-Index (WoS): 4

H-Index (Scopus): 4

Non Academic Experience

Purdue University, School of Electrical and Computer Engineering