

Prof. Dr. Gürcan BÜYÜKSALİH

Kişisel Bilgiler

İş Telefonu: [+90 212 440 0000](tel:+902124400000)

Fax Telefonu: [+90 212 526 8433](tel:+902125268433)

E-posta: gurcanb@istanbul.edu.tr

Web: <https://avesis.istanbul.edu.tr/70650>

Posta Adresi: Molla Hüsrev Mah. Müşküle Sok. No: 17 34134 Vefa-Fatih/İSTANBUL

Uluslararası Araştırmacı ID'leri

ScholarID: vyS0XeYAAAAJ

ORCID: 0000-0002-7127-4602

Publons / Web Of Science ResearcherID: HGM-5171-2022

ScopusID: 55892620000

Yoksis Araştırmacı ID: 379260

Eğitim Bilgileri

Post Doktora, Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), İsviçre 2005 - 2005

Post Doktora, Universitaet Hannover, Almanya 2004 - 2004

Post Doktora, Universitaet Hannover, Almanya 2003 - 2003

Post Doktora, Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), İsviçre 2001 - 2001

Post Doktora, University of Glasgow, İngiltere 2000 - 2000

Post Doktora, Universitaet Hannover, Almanya 1999 - 1999

Doktora, University of Glasgow, Faculty of Science, Dept. of Geography and Topographic Science, İngiltere 1994 - 1998

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 1991 - 1993

Lisans, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Harita Mühendisliği, Türkiye 1987 - 1991

Yabancı Diller

İngilizce, C2 Ustalık

Yaptığı Tezler

Doktora, Geometric and Radiometric Calibration of Video Infrared Imagers for Photogrammetric Applications, University of Glasgow, 1997

Yüksek Lisans, KUBBELERİN FOTOGRAMETRİK YÖNTEMLE ÖLÇÜLMESİ, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 1993

Araştırma Alanları

3B-Modelleme, Harita Mühendisliği-Geomatik, Coğrafi Bilgi Sistemleri, Fotogrametri, Uzaktan Algılama, Görüntü İşleme, Lidar, Sanal Gerçeklik, Lazer Tarama, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., İstanbul Üniversitesi, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü, 2022 - Devam Ediyor

Doç. Dr., Zonguldak Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2005 - 2007

Dr. Öğr. Üyesi, Zonguldak Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 1998 - 2005
Araştırma Görevlisi, Zonguldak Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 1993 - 1998

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Harita Mühendisliği, 1991 - 1993

Akademik İdari Deneyim

Enstitü Yönetim Kurulu Üyesi, İstanbul Üniversitesi, Deniz Bilimleri Ve İşletmeciliği Enstitüsü, Deniz Bilimleri Ve İşletmeciliği Bölümü, 2023 - Devam Ediyor

Fakülte Kurulu Üyesi, Zonguldak Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2006 - 2006

Bölüm Başkan Yardımcısı, Zonguldak Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2001 - 2006

Anabilim/Bilim Dalı Başkanı, Zonguldak Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 1998 - 2006

Verdiği Dersler

SUALTI FOTOGRAMETRİSİ, Doktora, 2023 - 2024

YÜKSEK ÇÖZEBİLİRLİKLİ UZAKTN ALGILAMA VERİLERİ VE ANALİZ YAKLAŞIMLARI, Doktora, 2023 - 2024

COĞRAFİ BİLGİ SİSTEMLERİ VE DENİZEL BİYOÇEŞİTLİLİK, Yüksek Lisans, 2023 - 2024

DENİZ BİLİMLERİNDE OLASILIK VE İSTATİSTİK, Yüksek Lisans, 2023 - 2024

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Improving the Accuracy of Satellite-Derived Bathymetry Using Multi-Layer Perceptron and Random Forest Regression Methods: A Case Study of Tavşan Island**
Çelik O. İ., Büyüksalih G., GAZİOĞLU C.
Journal of Marine Science and Engineering, cilt.11, sa.11, 2023 (SCI-Expanded)
- II. **Rooftop photovoltaic potential in Istanbul: Calculations based on LiDAR data, measurements and verifications**
Yıldırım D., Buyuksalih G., Şahin A. D.
APPLIED ENERGY, cilt.304, 2021 (SCI-Expanded)
- III. **Quality analysis of Worldview-4 DSMs generated by least squares matching and semiglobal matching**
Sefercik U. G., ALKAN M., Jacobsen K., Atalay C., Buyuksalih G.
JOURNAL OF APPLIED REMOTE SENSING, cilt.15, sa.3, 2021 (SCI-Expanded)
- IV. **Optimizing the Achievable Information Content Extraction from WorldView-4 Stereo Imagery**
Sefercik U. G., ALKAN M., Atalay C., Jacobsen K., Buyuksalih G., Karakis S.
PFG-JOURNAL OF PHOTOGRAMMETRY REMOTE SENSING AND GEOINFORMATION SCIENCE, cilt.88, sa.6, ss.449-461, 2020 (SCI-Expanded)
- V. **DSM generation with bistatic TanDEM-X InSAR pairs and quality validation in inclined topographies and various land cover classes**
Sefercik U. G., Buyuksalih G., Atalay C.

- ARABIAN JOURNAL OF GEOSCIENCES, cilt.13, sa.13, 2020 (SCI-Expanded)
- VI. **Preserving the Knowledge of the Past Through Virtual Visits: From 3D Laser Scanning to Virtual Reality Visualisation at the Istanbul catalca Incegiz Caves**
Buyuksalih G., Kan T., Ozkan G. E., Meric M., Isin L., Kersten T. P.
PFG-JOURNAL OF PHOTOGRAFMETRY REMOTE SENSING AND GEOINFORMATION SCIENCE, cilt.88, sa.2, ss.133-146, 2020 (SCI-Expanded)
- VII. **DSM Quality of Korean Satellite KOMPSAT-3 in Comparison to AW3D30 and Sentinel-1A in Respect of Airborne Laser Scanning**
Sefercik U., Buyuksalih G., Jacobsen K., Bayburt S.
KSCE JOURNAL OF CIVIL ENGINEERING, cilt.23, sa.7, ss.3162-3173, 2019 (SCI-Expanded)
- VIII. **Validation of Sentinel-1A and AW3D30 DSMs for the Metropolitan Area of Istanbul, Turkey**
Sefercik U. G., Buyuksalih G., Atalay C., Jacobsen K.
PFG-JOURNAL OF PHOTOGRAFMETRY REMOTE SENSING AND GEOINFORMATION SCIENCE, cilt.86, sa.3-4, ss.141-155, 2018 (SCI-Expanded)
- IX. **Point-based and model-based geolocation analysis of airborne laser scanning data**
Sefercik U. G., Buyuksalih G., Jacobsen K., ALKAN M.
OPTICAL ENGINEERING, cilt.56, sa.1, 2017 (SCI-Expanded)
- X. **GENERATION AND VALIDATION OF HIGH-RESOLUTION DEMS FROM WORLDVIEW-2 STEREO DATA**
Sefercik U. G., ALKAN M., Buyuksalih G., Jacobsen K.
PHOTOGRAFMETRIC RECORD, cilt.28, sa.144, ss.362-374, 2013 (SCI-Expanded)
- XI. **Geometric accuracy and information content of WorldView-1 images**
Alkan M., Buyuksalih G., Sefercik U. G., Jacobsen K.
OPTICAL ENGINEERING, cilt.52, sa.2, 2013 (SCI-Expanded)
- XII. **Assessment of a Photogrammetric Approach for Urban DSM Extraction from Tri-Stereoscopic Satellite Imagery**
Tack F., Goossens R., Buyuksalih G.
PHOTOGRAFMETRIC RECORD, cilt.27, sa.139, ss.293-310, 2012 (SCI-Expanded)
- XIII. **A mixed spaceborne sensor approach for surface modelling of an urban scene**
Tack F., Buyuksalih G., Goossens R.
INTERNATIONAL JOURNAL OF REMOTE SENSING, cilt.33, sa.19, ss.6035-6059, 2012 (SCI-Expanded)
- XIV. **3D building reconstruction based on given ground plan information and surface models extracted from spaceborne imagery**
Tack F., Buyuksalih G., Goossens R.
ISPRS JOURNAL OF PHOTOGRAFMETRY AND REMOTE SENSING, cilt.67, ss.52-64, 2012 (SCI-Expanded)
- XV. **Documentation of Istanbul Historic Peninsula by Kinematic Terrestrial Laser Scanning**
Kersten T. P., Bueyueksalih G., Baz I., Jacobsen K.
PHOTOGRAFMETRIC RECORD, cilt.24, sa.126, ss.122-138, 2009 (SCI-Expanded)
- XVI. **Information content of optical satellite images for topographic mapping**
Topan H., Maktav D., Jacobsen K., Buyuksalih G.
INTERNATIONAL JOURNAL OF REMOTE SENSING, cilt.30, sa.7, ss.1819-1827, 2009 (SCI-Expanded)
- XVII. **Geometric accuracy evaluation of the DEM generated by the Russian TK-350 stereo scenes using the SRTM X- and C-band interferometric DEMs**
Buyuksalih G., Kocak G., Oruc M.
PHOTOGRAFMETRIC ENGINEERING AND REMOTE SENSING, cilt.71, sa.11, ss.1295-1301, 2005 (SCI-Expanded)
- XVIII. **Spot revisited: Accuracy assessment, dem generation and validation from stereo spot 5 HRG images**
Buyuksalih G., Kocak G., Topan H., Oruc M., Marangoz A.
PHOTOGRAFMETRIC RECORD, cilt.20, sa.110, ss.130-146, 2005 (SCI-Expanded)
- XIX. **Accuracy assessment of interferometric digital elevation models derived from the Shuttle Radar Topography Mission X- and C-band data in a test area with rolling topography and moderate forest cover**
Kocak G., Buyuksalih G., Oruc M.

- OPTICAL ENGINEERING, cilt.44, sa.3, 2005 (SCI-Expanded)
- XX. Accuracy analysis, DEM generation and validation using Russian TK-350 stereo-images
Buyuksalih G., Kocak G., Oruc M., Akcin H., Jacobsen K.
- PHOTOGRAMMETRIC RECORD, cilt.19, sa.107, ss.200-218, 2004 (SCI-Expanded)
- XXI. Geometric calibration models of infrared cameras and scanners for photogrammetric and remote sensing applications
Buyuksalih G.
- OPTICAL ENGINEERING, cilt.42, sa.7, ss.1923-1934, 2003 (SCI-Expanded)
- XXII. Practical experiences with automatic aerial triangulation using different software packages
Buyuksalih G., Li Z.
- PHOTOGRAMMETRIC RECORD, cilt.18, sa.102, ss.131-155, 2003 (SCI-Expanded)

Düzenlenen Dergilerde Yayınlanan Makaleler

- I. 3D City Modelling of Istanbul
Baskaraca P., Buyuksalih G., Rahman A. A.
GIM INTERNATIONAL-THE WORLDWIDE MAGAZINE FOR GEOMATICS, cilt.33, sa.1, ss.16-19, 2019 (ESCI)
- II. Bundle block adjustment with ultracamD images
Buyuksalih G., Jacobsen K.
Revue Francaise de Photogrammetrie et de Teledetection, sa.183, ss.42-49, 2006 (Scopus)
- III. Generation and validation of digital elevation models based on satellite images
Buyuksalih G., Jacobsen K.
Revue Francaise de Photogrammetrie et de Teledetection, sa.184, ss.17-22, 2006 (Scopus)
- IV. Geometric accuracy testing of Ikonos geo-product mono imagery using different sensor orientation models
Buyuksalih G., Oruç M., Koçak G.
Turkish Journal of Engineering and Environmental Sciences, cilt.27, sa.5, ss.347-360, 2003 (Scopus)

Kitap & Kitap Bölümleri

- I. Automated Extraction of Buildings from Aerial Lidar Point Cloud and Digital Imaging Datasets for 3D Cadastre – Preliminary Results
Buyuksalih G.
Cadastre: Geo-Information Innovations in Land Administration, Tahsin Yomralioglu, John McLaughlin, Editör, Springer, London/Berlin , Zug, ss.159-165, 2017

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. 3D Land Marine Properties Administration in the Context of Sea Level Rise (SLR) - Issues & Challenges
Abdulrahman A., Hassan M. I., Musliman I. A., Rashidan H., Mutiarasar W. M., Zamzuri A., Büyüksalih G., Gazioğlu C., Bayırhan İ.
GeoAdvances 2024 – 8th International Conference on GeoInformation Advances, İstanbul, Türkiye, 11 - 12 Ocak 2024, ss.1-6
- II. Potential of Planet's SkySat Collect Images for Topographic Mapping
Buyuksalih G., Gazioğlu C.
42nd EARSeL Symposium, Bucuresti, Romania, 3 - 07 Temmuz 2023, ss.55-56
- III. Geometry and Image Quality Assessment of SkySat Imagery for Building Identification

- Büyüksalih G., Gazioğlu C., Celik O. I., Jacobsen K.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Türkiye, 7 - 09 Haziran 2023
- IV. **Triangular mesh approach for automatic repair of missing surfaces of lod2 building models**
Rashidan H., Abdul Rahman A., Musliman I., Buyuksalih G.
2021 Joint International Conference on Geospatial Asia-Europe 2021 and GeoAdvances 2021, Casablanca, Fas, 5 - 06 Ekim 2021, cilt.46, ss.281-286
- V. **3D Citygml building models development with cross-scale query database**
Karim H., Abdul Rahman A., Abdul Halim N., Buyuksalih G., Rashidan H.
2021 Joint International Conference on Geospatial Asia-Europe 2021 and GeoAdvances 2021, Casablanca, Fas, 5 - 06 Ekim 2021, cilt.46, ss.161-170
- VI. **3D GEOSPATIAL DATABASE SCHEMA for ISTANBUL 3D CITY MODEL**
Abdul Rahman A., Rashidan H., Musliman I., Buyuksalih G., Bayburt S., Baskaraca P.
6th International Conference on Geomatics and Geospatial Technology, GGT 2019, Kuala-Lumpur, Malezya, 1 - 03 Ekim 2019, cilt.42, ss.11-16
- VII. **VIRTUALISING AN OTTOMAN FORTRESS - LASER SCANNING AND 3D MODELLING FOR THE DEVELOPMENT OF AN INTERACTIVE, IMMERSIVE VIRTUAL REALITY APPLICATION**
Tschirschitz F., Buyuksalih G., Kersten T. P., Kan T., Enc G., Baskaraca P.
8th International Workshop on 3D Virtual Reconstruction and Visualization of Complex Architectures (3D-ARCH), Bergamo, İtalya, 6 - 08 Şubat 2019, cilt.42-2, ss.723-729
- VIII. **RAPID 3D DIGITALIZATION OF THE CULTURAL HERITAGE: A CASE STUDY ON ISTANBUL SULEYMANIYE SOCIAL COMPLEX (KULLİYE)**
Kan T., Buyuksalih G., Ozkan G. E., Baskaraca P.
2nd International Conference of Geomatics and Restoration (GEORES), Milan, İtalya, 8 - 10 Mayıs 2019, cilt.42-2, ss.645-652
- IX. **Conceptual Framework Towards Unified 3D Topological Modelling and Visualization Based on CityGML**
Buyuksalih G.
FIG Congress 2018: Embracing our smart world where the continents connect: enhancing the geospatial maturity of societies, İstanbul, Türkiye, 6 - 11 Mayıs 2018, ss.1-23
- X. **Analysis of height models based on Kompsat-3 images**
Buyuksalih G., Bayburt S., Jacobsen K.
2018 Geoinformation for Disaster Management Conference, Gi4DM 2018, İstanbul, Türkiye, 18 - 21 Mart 2018, cilt.42, ss.115-119
- XI. **3D CITY MODELLING OF ISTANBUL BASED ON LIDAR DATA AND PANORAMIC IMAGES - ISSUES AND CHALLENGES**
Buyuksalih G., Baskaraca P., Bayburt S., Buyuksalih I., Rahman A. A.
5th International Conference on Geoinformation Science / ISPRS Conference on Multi-Dimensional and Multi-Scale Spatial Data Modeling (GeoAdvances), Casablanca, Fas, 10 - 11 Ekim 2018, cilt.42-4, ss.51-60
- XII. **GEOMETRIC ACCURACY ANALYSIS OF WORLDEM IN RELATION TO AW3D30, SRTM AND ASTER GDEM2**
Bayburt S., Kurtak A. B., Buyuksalih G., Jacobsen K.
ISPRS Hannover Workshop / High-Resolution Earth Imaging for Geospatial Information (HRIGI) Workshop / City Models, Roads and Traffic (CMRT) Workshop / Image Sequence Analysis (ISA) Workshop / European Calibration and Orientation (EuroCOW) Workshop, Hannover, Almanya, 6 - 09 Haziran 2017, cilt.42-1, ss.211-217
- XIII. **CALCULATING SOLAR ENERGY POTENTIAL OF BUILDINGS AND VISUALIZATION WITHIN UNITY 3D GAME ENGINE**
Buyuksalih G., Bayburt S., Baskaraca A. P., Karim H., Rahman A. A.
ISPRS WG IV/1 International Conference on Geomatic and Geospatial Technology (GGT) - Geospatial and Disaster Management, Kuala-Lumpur, Malezya, 04 Ekim 2017, cilt.42-4, ss.39-44
- XIV. **FOREST STEM VOLUME CALCULATION USING AIRBORNE LIDAR DATA**

- Buyuksalih I., Bayburt S., Schardt M., Buyuksalih G.
ISPRS Hannover Workshop / High-Resolution Earth Imaging for Geospatial Information (HRIGI) Workshop / City Models, Roads and Traffic (CMRT) Workshop / Image Sequence Analysis (ISA) Workshop / European Calibration and Orientation (EuroCOW) Workshop, Hannover, Almanya, 6 - 09 Haziran 2017, cilt.42-1, ss.265-270
- XV. **THE IMPORTANCE OF DIGITAL METHODS IN PRESERVATION OF CULTURAL HERITAGE THE EXAMPLE OF ZIRNIKLI MANSION**
Kan T., Buyuksalih G., Kaya Y., Baskaraca A. P.
1st International Conference on Geomatics and Restoration - Conservation of Cultural Heritage in the Digital Era, Florence, İtalya, 22 - 24 Mayıs 2017, cilt.42-5, ss.175-186
- XVI. **3D MODELLING AND VISUALIZATION BASED ON THE UNITY GAME ENGINE - ADVANTAGES AND CHALLENGES**
Buyuksalih I., Bayburt S., Buyuksalih G., Baskaraca A. P., Karim H., Rahman A. A.
4th International Workshop on Geoinformation Science / 4th ISPRS International Workshop on Multi-Dimensional and Multi-Scale Spatial Data Modeling (GeoAdvances), Safranbolu, Türkiye, 14 - 15 Ekim 2017, cilt.4-4, ss.161-166
- XVII. **THE SELİMİYE MOSQUE OF EDIRNE, TURKEY - AN IMMERSIVE AND INTERACTIVE VIRTUAL REALITY EXPERIENCE USING HTC VIVE**
Kersten T. P., Buyuksalih G., Tschirschwitz F., Kan T., Deggim S., Kaya Y., Baskaraca A. P.
1st International Conference on Geomatics and Restoration - Conservation of Cultural Heritage in the Digital Era, Florence, İtalya, 22 - 24 Mayıs 2017, cilt.42-5, ss.403-409
- XVIII. **EXTRACTION OF URBAN TREES FROM INTEGRATED AIRBORNE BASED DIGITAL IMAGE AND LiDAR POINT CLOUD DATASETS - INITIAL RESULTS**
Dogon-yaro M. A., Kumar P., Rahman A. A., Buyuksalih G.
3rd International GeoAdvances Workshop / ISPRS Workshop on Multi-dimensional and Multi-Scale Spatial Data Modeling, İstanbul, Türkiye, 16 - 17 Ekim 2016, cilt.42-2, ss.81-88
- XIX. **SEMI-AUTOMATED APPROACH FOR MAPPING URBAN TREES FROM INTEGRATED AERIAL LiDAR POINT CLOUD AND DIGITAL IMAGERY DATASETS**
Dogon-Yaro M. A., Kumar P., Rahman A. A., Buyuksalih G.
International Conference on Geomatic and Geospatial Technology (GGT), Kuala-Lumpur, Malezya, 3 - 05 Ekim 2016, cilt.42-4, ss.127-134
- XX. **3D Lidar Mapping of Underground Metro System**
Büyükşalih G.
Capture Reality Forum - 3D, Laser Scanning, Lidar Technologies, Salzburg, Avusturya, 23 - 25 Kasım 2015, ss.1-12
- XXI. **Mapping with Pleiades Pan-sharpened Images**
Büyükşalih G.
35th Earsel Symposium "European Remote Sensing: Progress, Challenges and Opportunities", Stockholm, İsveç, 15 - 19 Haziran 2015, ss.1-8
- XXII. **Large Area Covering LiDAR Height Models – Problems and Solution**
Büyükşalih G.
34th EARSeL Symposium "European remote sensing – new opportunities for science and practice", Warszawa, Polonya, 16 - 20 Haziran 2014, ss.1-7
- XXIII. **DEM GENERATION WITH WORLDVIEW-2 IMAGES**
Buyuksalih G., Baz I., Alkan M., Jacobsen K.
22nd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing, Melbourne, Avustralya, 25 Ağustos - 01 Eylül 2012, cilt.39-B1, ss.203-207
- XXIV. **BENCHMARKING AND QUALITY ANALYSIS OF DEM GENERATED FROM HIGH AND VERY HIGH RESOLUTION OPTICAL STEREO SATELLITE DATA**
Reinartz P., d'Angelo P., Krauss T., Poli D., Jacobsen K., Buyuksalih G.
Canadian Geomatics Conference / Symposium of Commission I, International-Society-for-Photogrammetry-and-Remote-Sensing Convergence in Geomatics - Shaping Canada's Competitive Landscape, Calgary, Kanada, 15 - 18 Haziran 2010, cilt.38
- XXV. **Mapping with WorldView-1 Imagery**

- Jacobsen K, Buyuksalih G.
29th EARSeL Symposium, Chania, Yunanistan, 15 - 18 Haziran 2009, ss.190-200
- XXVI. **Semi-automatic City Model Extraction from Tri-stereoscopic VHR Satellite Imagery**
Buyuksalih G.
ISPRS Workshop on quality, scale and analysis aspects of city models, Lund, İsveç, 3 - 04 Aralık 2009, ss.1-6
- XXVII. **3D City Modelling for Planning Activities, Case Study: Haydarpasa Train Station, Haydarpasa Port and Surrounding Backside Zones, İstanbul**
Buyuksalih G.
ISPRS Hannover Workshop 2009 "High-Resolution Earth Imaging for Geospatial Information" in conjunction with 12th AGILE International Conference on Geographic Information Science, Hannover, Almanya, 2 - 05 Haziran 2009, ss.1-6
- XXVIII. **Geometric and Mapping Potential of Worldview-1 Images**
Buyuksalih G.
ISPRS Hannover Workshop 2009 "High-Resolution Earth Imaging for Geospatial Information" in conjunction with 12th AGILE International Conference on Geographic Information Science, Hannover, Almanya, 2 - 05 Haziran 2009, ss.1-5
- XXIX. **Developing 3D Geospatial Database from Terrestrial Laser Scanned Data**
Buyuksalih G.
Proceedings of South East Asian Technical Universities Consortium(SEATUC) - 3rd SEATUC Symposium, Johor-Bahru, Malezya, 25 - 26 Şubat 2009, ss.389-398
- XXX. **Investigation of the potential of multiscopic VHR satellite imagery for the production of 3D models of complex urban areas**
Tack F., Goossens R., Buyuksalih G.
28th European-Association-of-Remote-Sensing-Laboratories (EARSeL) Symposium and Workshops on Remote Sensing for a Changing Europe, İstanbul, Türkiye, 2 - 05 Haziran 2008, ss.618-624
- XXXI. **3D Geospatial Database from Terrestrial Laser Scanning (TLS) data**
Buyuksalih G.
7th International Symposium & Exhibition on Geoinformation (ISG 2008), Kuala-Lumpur, Malezya, 13 - 15 Ekim 2008, ss.1-22
- XXXII. **3D City Modelling and Visualization of İstanbul Historic Peninsula in İstanbul**
Buyuksalih G.
4th EARSeL Workshop on Remote Sensing for Developing Countries/GISDECO 8, İstanbul, Türkiye, 4 - 07 Haziran 2008, ss.1-9
- XXXIII. **DEM generation based on optical space images**
Buyuksalih G.
4th EARSeL Workshop on Remote Sensing for Developing Countries/GISDECO 8, İstanbul, Türkiye, 4 - 07 Haziran 2008, ss.1-11
- XXXIV. **Topographic Mapping from Space**
Buyuksalih G.
4th EARSeL Workshop on Remote Sensing for Developing Countries/GISDECO 8, İstanbul, Türkiye, 4 - 07 Haziran 2008, ss.1-10
- XXXV. **Managing 3D Geospatial Data, Case Study: Suleymaniye Region of Historic Peninsula**
Buyuksalih G.
4th EARSel Workshop on Remote Sensing for Developing Countries/GISDECO 8, İstanbul, Türkiye, 4 - 07 Haziran 2008, ss.1-6
- XXXVI. **Documentation of İstanbul Historic Peninsula by Sensor Integration and Data Fusion**
Buyuksalih G.
4th EARSeL Workshop on Remote Sensing for Developing Countries/GISDECO 8, İstanbul, Türkiye, 4 - 07 Haziran 2008, ss.1-9
- XXXVII. **Digital Height Models in Mountainous Regions based on Space Information**
Buyuksalih G.

EARSel Workshop Remote Sensing - New Challenges of High Resolution, Bochum, Almanya, 5 - 07 Mart 2008, ss.1-11

- XXXVIII. **Determination of the build up area development in the Greater Municipality of Istanbul by space images**

Büyüksalih G.

EARSeL Workshop Remote Sensing - New Challenges of High Resolution, Bochum, Almanya, 5 - 07 Mart 2008, ss.1-8

- XXXIX. **Mapping from space for developing countries**

Büyüksalih G.

EARSeL Workshop Remote Sensing - New Challenges of High Resolution, Bochum, Almanya, 5 - 07 Mart 2008, ss.1-10

- XL. **Detection of changes in istanbul area with medium and high resolution space images**

Bayburt S., Büyüksalih G., Baz I., Jacobsen K., Kersten T.

21st Congress of the International Society for Photogrammetry and Remote Sensing, ISPRS 2008, Beijing, Çin, 3 - 11 Temmuz 2008, cilt.37, ss.1607-1611

- XLI. **3D city modelling of istanbul historic peninsula by combination of aerial images and terrestrial laser scanning data**

Buhur S., Kersten T., Büyüksalih G., Jacobsen K., Baz I., Dursun S., Sagir D.

21st Congress of the International Society for Photogrammetry and Remote Sensing, ISPRS 2008, Beijing, Çin, 3 - 11 Temmuz 2008, cilt.37, ss.1239-1245

- XLII. **Documentation of Istanbul historic peninsula by static and mobile terrestrial laser scanning**

Baz I., Kersten T., BÜYÜKSALİH G., Jacobsen K.

2008 21st ISPRS International Congress for Photogrammetry and Remote Sensing, Beijing, Çin, 3 - 11 Temmuz 2008, cilt.37, ss.993-998

- XLIII. **DSM generation with high resolution space imagery over mountainous forest area**

Buyuksalih G., Jacobsen K.

21st Congress of the International Society for Photogrammetry and Remote Sensing, ISPRS 2008, Beijing, Çin, 3 - 11 Temmuz 2008, cilt.37, ss.865-871

- XLIV. **Digital surface models in build up areas based on very high resolution space images**

Buyuksalih G., Jacobsen K.

ASPRS Annual Conference 2007: Identifying Geospatial Solutions, Tampa, FL, Amerika Birleşik Devletleri, 7 - 11 Mayıs 2007, cilt.1, ss.118-125

- XLV. **Integrating 3D CAD Models with GeoDBMS for Istanbul Metropolitan Municipality Building Restoration**

Büyüksalih G.

Joint International Symposium and Exhibition on Geoinformation and GNSS (ISG/GNSS 2007), Johor-Bahru, Malezya, 5 - 07 Kasım 2007, ss.1

- XLVI. **Mapping potential of orbview-3 panchromatic image in mountainous urban areas: Results of zonguldak test-field**

Topan H., Büyüksalih G., Maktav D.

2007 Urban Remote Sensing Joint Event, URS, Paris, Fransa, 11 - 13 Nisan 2007

- XLVII. **Investigation of BILSAT-1 Imagery**

Büyüksalih G.

27th Earsel Symposium 'Geoinformation in Europe', Bolzano, İtalya, 4 - 07 Haziran 2007, ss.1-8

- XLVIII. **Bundle Block Adjustment with High Resolution ULTRACAMD Images**

Büyüksalih G.

ISPRS Hannover Workshop 2007: High-Resolution Earth Imaging for Geospatial Information, Hannover, Almanya, 29 Mayıs - 01 Haziran 2007, ss.1-6

- XLIX. **Effects of Industrial and Municipal Solid Waste on Western Blacksea Coast**

Yıldırım Y., Çapar Ö. F., Özölçer İ. H., Büyüksalih G.

Second International Conference on Water and Environment, Blida, Cezayir, 30 - 31 Ocak 2007, ss.328-336

- L. **Comparison of very high resolution space images**
Buyuksalih G., Jacobsen K.
Annual Conference of the American Society for Photogrammetry and Remote Sensing 2006: Prospecting for Geospatial Information Integration, ASPRS 2006, Reno, NV, Amerika Birleşik Devletleri, 1 - 05 Mayıs 2006, cilt.1, ss.197-204
- LI. **Mapping Potential of High Resolution Space Images in Mountainous Urban Areas**
Topan H., Büyüksalih G.
ISPRS Commission VIII Mid-Congress Symposium on: "Remote Sensing Applications for a Sustainable Future, Ashdod, Israil, 4 - 07 Eylül 2006, ss.1-6
- LII. **Comparison of DEM Generation by very high resolution optical Satellites**
Büyüksalih G.
26th Earsel Symposium 'New Developments and Challenges in Remote Sensing', Warszawa, Polonya, 29 Mayıs - 02 Haziran 2006, ss.1-9
- LIII. **Generation and validation of digital elevation models based on satellite images**
Büyüksalih G.
ISPRS Commission I Symposium: From Sensors to Imagery, Paris, Fransa, 3 - 06 Temmuz 2006, ss.1-6
- LIV. **Bundle block adjustment with Ultracam-D images**
Büyüksalih G.
ISPRS Commission I Symposium "From Sensors to Imagery", Paris, Fransa, 3 - 06 Temmuz 2006, ss.1-8
- LV. **Analysis of a bundle block adjustment with UltraCamD images over Istanbul**
Büyüksalih G.
5th Turkish-German Joint Geodetic Days, Berlin, Almanya, 28 - 31 Mart 2006, ss.1-5
- LVI. **Verification of Information Contents and Cost Considerations Using Very High Resolution Space Imagery For Object Extraction**
Marangoz A. M., Alkiş Z., Büyüksalih G., Akçin H.
5th Turkish-German Joint Geodetic Days, Berlin, Almanya, 28 - 31 Mart 2006, ss.1-6
- LVII. **Mapping from Space - a Cooperation of Zonguldak Karaelmas University and University of Hannover**
Büyüksalih G.
5th Turkish-German Joint Geodetic Days, Berlin, Almanya, 28 - 31 Mart 2006, ss.1-6
- LVIII. **3D Cultural Heritage Documentation of Safranbolu Test Site Using High Resolution Satellite Imagery**
Marangoz A. M., Karakış S., Sefercik U. G., Topan H., Büyüksalih G.
1st Workshop of the EARSeL-SIG Urban Remote Sensing: Urban Remote Sensing, Challenges and Solutions, Berlin, Almanya, 2 - 03 Mart 2006, ss.1-7
- LIX. **Accuracy And Morphological Analyses of GTOPO30 and SRTM X -C Band DEMs in the Test Area Istanbul**
Büyüksalih G.
ISPRS Workshop on Topographic Mapping from Space (with Special Emphasis on Small Satellites), Ankara, Türkiye, 14 - 16 Şubat 2006, ss.1-7
- LX. **Information Contents of Orbview-3 for Topographic Mapping**
Topan H., Büyüksalih G.
ISPRS Workshop on Topographic Mapping from Space (with Special Emphasis on Small Satellites), Ankara, Türkiye, 14 - 16 Şubat 2006, ss.1-7
- LXI. **Geometry of ORBVIEW-3 Images**
Büyüksalih G., Akçin H.
ISPRS Workshop on Topographic Mapping from Space (with Special Emphasis on Small Satellites), Ankara, Türkiye, 14 - 16 Şubat 2006, ss.1-5
- LXII. **Analysis of Segmentation Parameters in Ecognition Software Using High Resolution Quickbird MS Imagery**
Karakış S., Marangoz A. M., Büyüksalih G.
ISPRS Workshop on Topographic Mapping from Space (with Special Emphasis on Small Satellites), Ankara, Türkiye, 14 - 16 Şubat 2006, ss.1-5

- LXIII. **An Investigation of Industrial Plant Pollution Using Satellite Imagery as a Tool in Zonguldak Costs, Turkey**
Yıldırım Y., Büyüksalih G.
ISPRS Workshop on Topographic Mapping from Space (with Special Emphasis on Small Satellites), Ankara, Türkiye, 14 - 16 Şubat 2006, ss.1-6
- LXIV. **Verification of Automatic and Manual Road Extraction Methods Using Quickbird Imagery**
Alkan M., Marangoz A. M., Karakuş S., Büyüksalih G.
ISPRS Workshop on Topographic Mapping from Space (with Special Emphasis on Small Satellites), Ankara, Türkiye, 14 - 16 Şubat 2006, ss.1-3
- LXV. **Temporal Analysis of Multi Epoch LANDSAT Geocover Images in Zonguldak Testfield**
Büyüksalih G.
ISPRS Workshop on Topographic Mapping from Space (with Special Emphasis on Small Satellites), Ankara, Türkiye, 14 - 16 Şubat 2006, ss.1-6
- LXVI. **The critical role of geographic information system (GIS) and remote sensing (RS) in forest site classification and mapping**
Günlü A., Kadioğulları A. I., Başkent E. Z., GÜNEY D., Buyuksalih G.
7th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences, ACCURACY 2006, Lisbon, Portekiz, 5 - 07 Temmuz 2006, ss.595-602
- LXVII. **Potential of KOMPSAT-1 for mapping purposes**
Buyuksalih G., Akcin H., Marangoz A., Jacobsen K.
25th Symposium of the European-Association-of-Remote-Sensing-Laboratories (EARSeL), Oporto, Portekiz, 6 - 11 Haziran 2005, ss.647-654
- LXVIII. **Optimized geometric handling of high resolution space images**
Büyüksalih G., Jacobsen K.
Annual Conference 2005 - Geospatial Goes Global: From Your Neighborhood to the Whole Planet, Baltimore, MD, Amerika Birleşik Devletleri, 7 - 11 Mart 2005, cilt.1, ss.60-68
- LXIX. **DEM Generation and Validation Based on Optical Satellite Systems**
Büyüksalih G.
EARSeL Workshop on 3D Remote Sensing – Use of the Third Dimension for Remote Sensing Purposes, Porto, Portekiz, 10 - 11 Haziran 2005, ss.1-7
- LXX. **Information Contents of High Resolution Satellite Images**
Büyüksalih G., Topan H.
EARSeL Workshop on 3D Remote Sensing – Use of the Third Dimension for Remote Sensing Purposes, Porto, Portekiz, 10 - 11 Haziran 2005, ss.1-7
- LXXI. **Generation and Analysis of Height Models Based on Satellite Information**
Büyüksalih G., Marangoz A. M.
ISPRS Hannover Workshop 2005 "High-Resolution Earth Imaging for Geospatial Information", Hannover, Almanya, 17 - 20 Mayıs 2005, ss.1-7
- LXXII. **Geometric Models for the Orientation of High Resolution Optical Sensors**
Büyüksalih G., Topan H.
ISPRS Hannover Workshop 2005 "High-Resolution Earth Imaging for Geospatial Information", Hannover, Almanya, 17 - 20 Mayıs 2005, ss.1-7
- LXXIII. **Geometric evaluation, automated DEM and orthoimage generation from along-track stereo ASTER images**
Marangoz A., Buyuksalih G., Buyuksalih I., Sefercik U., Akcin H.
2nd International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 9 - 11 Haziran 2005, ss.505-510
- LXXIV. **Geometric conditions of space imagery for mapping**
Jacobsen K., Buyuksalih G., Marangoz A., Sefercik U., Buyuksalih I.
2nd International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 9 - 11 Haziran 2005, ss.511-516

- LXXV. **Investigation of zonguldak coasts for coastal management**
Özölcer I. H., Yıldırım Y., Büyüksalih G., Çapar Ö. F., Öztürk B.
7th International Conference on the Mediterranean Coastal Environment, MEDCOAST 2005, Kusadasi, Türkiye, 25 - 29 Ekim 2005, cilt.1, ss.83-94
- LXXVI. **Semantic analysis of space imagery for mapping purposes**
Karakis S., Topan H., Buyuksalih G., Marangoz A., Jacobsen K.
2nd International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 9 - 11 Haziran 2005, ss.500-504
- LXXVII. **Geometric Accuracy Evaluation, DEM Generation and Validation for SPOT-5 Level 1B Stereo Scene**
Büyüksalih G., Topan H.
3rd Workshop of the EARSEL Special Interest Group on Remote Sensing for Developing Countries, Cairo, Mısır, 26 - 29 Eylül 2004, ss.1-8
- LXXVIII. **Quality Assessment of DEM Derived from the SRTM X and C-bands Data: A Case Study for Rolling Topography and Dense Forest Cover**
Büyüksalih G.
3rd Workshop of the EARSEL Special Interest Group on Remote Sensing for Developing Countries, Cairo, Mısır, 26 - 29 Eylül 2004, ss.1-6
- LXXIX. **Information Content Analysis of KVR-1000 Ortho-image Based on the Available Topographic Maps in the GIS Environment**
Büyüksalih G., Akçin H., Topan H., Karaklış S., Marangoz A. M.
3rd Workshop of the EARSEL Special Interest Group on Remote Sensing for Developing Countries, Cairo, Mısır, 26 - 29 Eylül 2004, ss.1-15
- LXXX. **Object-oriented Image Analysis and Semantic Network for Extracting the Roads and Buildings from Ikonos Pan-sharpened Images**
Marangoz A. M., Büyüksalih G.
XXth ISPRS Congress, İstanbul, Türkiye, 12 - 23 Temmuz 2004, ss.1-5
- LXXXI. **Generation and Validation of High Resolution Space Image DEMs**
Büyüksalih G.
ASPRS 2004 Annual Conference "Mountains of Data – Peak Decisions", Colorado, Amerika Birleşik Devletleri, 23 - 28 Mayıs 2004, ss.1-11
- LXXXII. **Spatial and temporal analysis of forest covers change: Human impacts and natural disturbances in Bartın Forests, NW of Turkey**
Atesoglu A., Tunay M., Buyuksalih G.
20th ISPRS Congress on Technical Commission VII, İstanbul, Türkiye, 12 - 23 Temmuz 2004, cilt.35
- LXXXIII. **GIS based analysis of landcover changes arising from coal production wastes in Zonguldak Metropolitan Area-Turkey**
Akçin H., Karaklış S., Büyüksalih G., Oruç M.
20th ISPRS Congress on Technical Commission VII, İstanbul, Türkiye, 12 - 23 Temmuz 2004, cilt.35
- LXXXIV. **Analysis of digital elevation models determined by high resolution space images**
Kocak G., Büyüksalih G., Jacobsen K.
20th ISPRS Congress on Technical Commission VII, İstanbul, Türkiye, 12 - 23 Temmuz 2004, cilt.35
- LXXXV. **Comparison of information contents of high resolution space images**
Topan H., Büyüksalih G., Jacobsen K.
20th ISPRS Congress on Technical Commission VII, İstanbul, Türkiye, 12 - 23 Temmuz 2004, cilt.35
- LXXXVI. **Precise georeferencing of rectified high resolution space images**
Büyüksalih G., Oruc M., Jacobsen K.
20th ISPRS Congress on Technical Commission I 2004, İstanbul, Türkiye, 12 - 23 Temmuz 2004, cilt.35, ss.184-188
- LXXXVII. **Comparison of pixel-based and object-oriented classification approaches using landsat-7 ETM spectral bands**
Oruc M., Marangoz A., Buyuksalih G.
20th ISPRS Congress on Technical Commission VII, İstanbul, Türkiye, 12 - 23 Temmuz 2004, cilt.35

- LXXXVIII. **Results of Automatic Aerial Triangulation Using Different Commercial Software Packages**
 Büyüksalih G.
 6th Conference on Optical 3D Measurement Techniques, Zürich, İsviçre, 14 - 16 Ekim 2003, ss.1-10
- LXXXIX. **DEM Generation by ASTER and TK-350**
 Büyüksalih G.
 Joint ISPRS/EARSeL Workshop "High Resolution Mapping from Space 2003", Hannover, Almanya, 6 - 08 Ekim 2003, ss.1-6
- XC. **Handling of Ikonos Images from Orientation up to DEM Generation**
 Büyüksalih G.
 Joint ISPRS/EARSeL Workshop "High Resolution Mapping from Space 2003, Hannover, Almanya, 6 - 08 Ekim 2003, ss.1-17
- XCI. **Temporal Analysis of Changes in the Bartın Part of North-West Anatolian Forests Using Remotely-Sensed Images**
 Tunay M., Ateşoğlu A., Büyüksalih G.
 1st Int. Conference Studying Land Use Effects in Coastal Zones with Remote Sensing and GIS, Antalya, Türkiye, 13 - 16 Ağustos 2003, ss.382-392
- XCII. **Detection of Environmental Changes Arising from Coal Production Wastes in the Coastal Zone of Zonguldak Metropolitan Area**
 Buzkan İ., Akçın H., Büyüksalih G.
 1st Int. Conference Studying Land Use Effects in Coastal Zones with Remote Sensing and GIS, Antalya, Türkiye, 13 - 16 Ağustos 2003, ss.355-368
- XCIII. **Determination and Improvement of Digital Elevation Models Based on MOMS-2P Imagery**
 Büyüksalih G.
 Fourth Turkish-German Joint Geodetic Days, Berlin, Almanya, 3 - 06 Nisan 2001, ss.1-8
- XCIV. **Geometric Aspects of MOMS-2P Three-Line Imagery for Mapping Applications**
 Büyüksalih G.
 RSS2000 Symposium on 'Adding Value to Remotely Sensed Data', Leicester, İngiltere, 12 - 14 Eylül 2000, ss.1-9
- XCV. **Remote Sensing Activities in Turkey**
 Büyüksalih G.
 1st Workshop of the EARSEL Special Interest Group on Remote Sensing for Developing Countries, Ghent, Belçika, 4 - 06 Eylül 2000, ss.1-18
- XCVI. **New Infrared Imagers for Airborne Applications**
 Büyüksalih G.
 International Symposium on Remote Sensing & Integrated Technologies, İstanbul, Türkiye, 20 - 22 Ekim 1999, ss.103-112
- XCVII. **Geometric & Radiometric Calibration of Frame-Type Infrared Imagers**
 Büyüksalih G.
 ISPRS Joint Workshop "Sensors and Mapping from Space 1999", Hannover, Almanya, 27 - 30 Eylül 1999, ss.1-11

Desteklenen Projeler

Gazioğlu C., Büyüksalih G., Çağlar N., Taş S., Aksu A., Vardar D., Dursun F., Bayırhan İ., Çetintaşoğlu M. E., Yükseköğretim Kurumları Destekli Proje, Marmara Denizi Tavsan Adası Yakın Çevresinin Biyoçeşitliliğinin Hiperspektral/Multispektral Uydu ve IHA Görüntülerinin Makine ve Derin Öğrenme Algoritmaları kullanılarak Arastırılması, 2023 - 2024

Alkan M., Büyüksalih G., TÜBİTAK Projesi, 106Y157 - Kültürel Mirasın Kaydı, Analizi, Korunması ve Yaşatılmasına Yönelik Bir Bilgi ve Yönetim Sisteminin Geliştirilmesi, Örnek Uygulama: Safranbolu Tarihi Kenti, 2009 - 2011

Büyüksalih G., TÜBİTAK Projesi, 104Y050 - Batı Karadeniz Bölgesinin Uzay Görüntülerinin Harita Yapım Amaçlı Geometrik ve Semantik Analizi ve Veritabanı Oluşturulması, 2004 - 2005

Büyüksalih G., TÜBİTAK Projesi, 101Y090 - Geometric and Semantic Analysis of Space Imagery for Topographic Mapping & Database Construction of Selected Experimental Test Area in Turkey, 2002 - 2005

Bilimsel Dergilerdeki Faaliyetler

THE PHOTOGRAHMETRIC RECORD, Editörler Kurulu Üyesi, 2023 - Devam Ediyor

PFG-JOURNAL OF PHOTOGRAHMTRY, REMOTE SENSING AND GEOINFORMATION SCIENCE, Özel Sayı Editörü, 2023 - Devam Ediyor

Bilimsel Kuruluşlardaki Üyelikler / Görevler

European Association of Remote Sensing Laboratories (EARSeL) , Aslı Üye, 2023 - Devam Ediyor , Fransa

International Society for Photogrammetry and Remote Sensing (ISPRS), Üye, 2004 - 2012, Almanya

Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği (TUFUAB), Üye, 2005 - 2006, Türkiye

American Society for Photogrammetry and Remote Sensing (ASPRS), Üye, 2004 - 2006, Amerika Birleşik Devletleri

Bilimsel Hakemlikler

GISCIENCE AND REMOTE SENSING, SCI-E Kapsamındaki Dergi, Ekim 2023

EARTH SCIENCE INFORMATICS, SSCI Kapsamındaki Dergi, Temmuz 2023

International Journal of Environment and Geoinformatics, SCI Kapsamındaki Dergi, Mayıs 2023

JOURNAL OF APPLIED REMOTE SENSING, SCI-E Kapsamındaki Dergi, Eylül 2022

PHOTOGRAHMETRIC ENGINEERING AND REMOTE SENSING, SCI-E Kapsamındaki Dergi, Haziran 2019

Burslar

Doktora Sonrası Araştırma Bursu, TÜBİTAK, 1999 - 1999

Doktora, YÖK, 1993 - 1997