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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2016 - 2021

Postgraduate, Yildiz Technical University, Faculty Of Civil Engineering, Turkey 2010 - 2013

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Turkey 2005 - 2010

Dissertations

Doctorate, Nokta bulutlarının otomatik birleřtirilmesinde yeni bir yöntem önerisi, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2021

Postgraduate, Tarihi Eserlerin Dokümantasyonunda eřitli Veri Toplama Yöntemlerinin İncelenmesi, Yildiz Technical University, Faculty Of Civil Engineering, 2013

Research Areas

Geotechnical Engineering, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An Experimental Study of a New Keypoint Matching Algorithm for Automatic Point Cloud Registration**
Kuak R. A., Erol S., Erol B.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.10, no.4, 2021 (SCI-Expanded)
- II. **Utilizing Airborne LiDAR and UAV Photogrammetry Techniques in Local Geoid Model Determination and Validation**
Erol S., Ozogel E., Kuak R. A., Erol B.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.9, no.9, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **iPad Pro LiDAR sensörünün profesyonel bir yersel lazer tarayıcı ile karşılařtırmalı performans analizi**

KUÇAK R. A., EROL S., ALKAN R. M.

GEOMATİK, vol.8, no.1, pp.35-41, 2022 (Peer-Reviewed Journal)

II. Google Earth Pro Verilerinden Oluşturulan Sayısal Yükseklik Modelleri ve Global Sayısal Yükseklik Modellerinin Doğruluk Değerlendirmesi

Dervişoğlu A., ATİK Ş. Ö., KUÇAK R. A., SELBESOĞLU M. O.

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.21, no.5, pp.1125-1136, 2021 (Peer-Reviewed Journal)

III. Comparative Accuracy Analysis of Lidar Systems

Kuçak R. A., Erol S., İşler M.

TÜRKİYE LİDAR DERGİSİ, vol.2, no.2, pp.34-40, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

I. The Prediction of Nonlinear Polar Motion Based on Artificial Neural Network (ANN) and Fuzzy Inference System (FIS)

KUÇAK R. A., ULUĞ R., AKYILMAZ O.

in: Advances in Nonlinear Geosciences, Anastasios A. Tsonis, Editor, Springer International Publishing, pp.297-304, 2018

Refereed Congress / Symposium Publications in Proceedings

I. iPad Pro LiDAR Sensörünün Kapalı Mekan Ölçmelerindeki Performans Analizi

KUÇAK R. A., EROL S., ALKAN R. M.

TUFUAB 2022: XI. Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği Teknik Sempozyumu, Mersin, Turkey, 12 May 2022, pp.83

II. Mermerlerde Isıl Etkiyle Oluşan Bozunma Düzeyinin Laboratuvarda Yersel Lazer Taraması ile Belirlenmesi

KARAPINAR D., KUÇAK R. A., Mahmutoglu Y.

MÜHJEO'2021: Ulusal Mühendislik Jeolojisi ve Jeoteknik Sempozyumu, 21-23 Ekim 2021, İTÜ, İstanbul, İstanbul, Turkey, 21 October 2021

III. Comparison of NDT and ICP Method's point cloud registration performance

KUÇAK R. A., SELBESOĞLU M. O., EROL S.

1st Intercontinental Geoinformation Days (IGD), Turkey, 25 - 26 November 2020, pp.130-133

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.

Intercontinental Geoinformation Days, 25 - 26 November 2020, pp.5-8

V. On the Use of DEM by Unmanned Aerial Vehicle and Airborne LIDAR Data in Local Geoid Model Determination and Validation

KUÇAK R. A., EROL S., özögel e., IŞIK M. S., EROL B.

XXVIII INTERNATIONAL SYMPOSIUM ON MODERN TECHNOLOGIES, EDUCATION AND PROFESSIONAL PRACTICE IN GEODESY AND RELATED FIELDS, 8 - 09 November 2018

VI. The Accuracy Assessment of 3D Transformations for The Registration of Point Clouds

KUÇAK R. A., EROL S., EROL B.

XXVII International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, Sofija, Bulgaria, 9 - 10 November 2017

VII. Digital Elevation Model Analyses in Urban Area using Airborne LIDAR Data

EROL S., KUÇAK R. A., EROL B.

XXVII International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and

Related Fields, Sofija, Bulgaria, 9 - 10 November 2017

- VIII. **Evaluations on Digital Elevation Model Generation By Using Airborne LiDAR Technique In West of Turkey**
KOÇ F., KUÇAK R. A., EROL S., EROL B.
International Symposium on GIS Applications in Geography and Geosciences (ISGGG 2017), Çanakkale, Turkey, 18 - 21 October 2017
- IX. **Strip Adjustment of Mobile Mapping Point Clouds: Case Study in Istanbul Technical University (ITU) Ayazaga Campus**
KUÇAK R. A., EROL S.
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY AND GEOSCIENCES, 18 - 21 October 2017
- X. **A Study on Accessibility and Optimum Positioning of Recycling Containers: Üsküdar Case**
KUÇAK R. A., Ünsal Ö., ÇELİK B., ÖZDEMİR E., ULUĞ R.
MESAEP Mediterranean Scientific Association of Environmental Protection, Roma, Italy, 4 - 06 October 2017
- XI. **THE SEGMENTATION OF POINT CLOUDS WITH K-MEANS AND ANN (ARTIFICIAL NEURAL NETWORK)**
Kuçak R. A., Özdemir E., Erol S.
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, Germany, 6 - 09 June 2017, pp.595-598
- XII. **ANALYSIS OF TERRESTRIAL LASER SCANNING AND PHOTOGRAMMETRY DATA FOR DOCUMENTATION OF HISTORICAL ARTIFACTS**
Kuçak R. A., Kilic F., Kisa A.
3rd International GeoAdvances Workshop / ISPRS Workshop on Multi-dimensional and Multi-Scale Spatial Data Modeling, İstanbul, Turkey, 16 - 17 October 2016, pp.155-158

Metrics

Publication: 18

Citation (WoS): 5

Citation (Scopus): 31

H-Index (WoS): 2

H-Index (Scopus): 4

Non Academic Experience

Universal Bilgi Teknolojileri