

Res. Asst. ARZU ARSLAN KELAM

Personal Information

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Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Jeoloji Mühendisliği (YI) (Tezli), Turkey 2015 - Continues

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Jeoloji Mühendisliği (YI) (Tezli), Turkey 2012 - 2015

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Geological Engineering, Turkey 2007 - 2012

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Other, OpenSees Online Workshop, Earthquake Engineering Association of Turkey, 2020

Vocational Course, Yamaçlarda ve Şevlerde 2 ve 3 Boyutlu Kaya Düşme Analizleri ve Kaya Düşmesi Önleme Yöntemleri, TMOOB Jeoloji Mühendisleri Odası, 2019

Other, 4th Japan-Turkey Cooperative Education program on Resilience Engineering for Energy and Urban Systems (JTRE) Workshop, Middle East Technical University, 2019

Other, 3 Boyutlu Limit Denge Esaslı Şev Stabillitesi Belirlemesi: Rocscience Yazılım Uygulamaları Çalıştayı, GEODESTEK, 2018

Vocational Course, Leapfrog Geo Fundamentals, Middle East Technical University, 2017

Dissertations

Postgraduate, Generation of an Early Warning System for Landslide and Slope Instability by Optical Fiber Technology, Middle East Technical University, Graduate School of Natural and Applied Sciences, Jeoloji Mühendisliği (YI) (Tezli), 2015

Research Areas

Geological Engineering, Applied Geology, Engineering Geology foundations, earthquakes, dams, reservoirs, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Geological Engineering,
2013 - Continues

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

- I. **An evaluation of seismic hazard and potential damage in Gaziantep, Turkey using site specific models for sources, velocity structure and building stock**
ARSLAN KELAM A., Karimzadeh S., Yousefibavil K., AKGÜN H., ASKAN GÜNDOĞAN A., ERBERİK M. A. , KOÇKAR M. K. , PEKCAN O., Ciftci H.
Soil Dynamics and Earthquake Engineering, vol.154, 2022 (Journal Indexed in SCI Expanded)
- II. **Application of an optical fiber-based system for mass movement monitoring**
Kelam A., AKGÜN H., KOÇKAR M. K.
ENVIRONMENTAL EARTH SCIENCES, vol.81, no.5, 2022 (Journal Indexed in SCI)
- III. **Assessment of the effect of mineralogy on the geotechnical parameters of clayey soils: A case study for the Orta County, cankiri, Turkey**
Akgün H., Turkmenoglu A. G. , Arslan Kelam A., Yousefi-Bavil K., Oner G., Koçkar M. K.
APPLIED CLAY SCIENCE, vol.164, pp.44-53, 2018 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Utilization of Optical Fiber System for Mass Movement Monitoring**
ARSLAN A., KOÇKAR M. K. , AKGÜN H.
Disaster Science and Engineering, vol.2, pp.19-24, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Assessment of kinematic rock slope failures in Mudurnu Valley, Turkey**
ARSLAN KELAM A., AKGÜN H., Bobet A., KOÇKAR M. K.
EUROCK 2021 Conference on Rock Mechanics and Rock Engineering from Theory to Practice, Turin, Virtual, Italy, 20 - 25 September 2021, vol.833
- II. **Application of an Optical Fiber Based Monitoring System to a Mass Movement Area**
ARSLAN KELAM A., KOÇKAR M. K. , AKGÜN H.
54th US Rock Mechanics/Geomechanics Symposium, United States Of America, 28 June - 01 July 2020
- III. **APPLICATION OF A LANDSLIDE MONITORING SYSTEM TO AN EARTHQUAKE PRONE REGION BY USING OPTICAL FIBER TECHNOLOGY**
ARSLAN KELAM A., KOÇKAR M. K. , AKGÜN H.
5. International Conference on Earthquake Engineering and Seismology (5. ICEES), Ankara, Turkey, 8 - 11 October 2019
- IV. **An Optical Fiber Early Warning System for Monitoring Mass Movements and for Assessing the Effect of the Triggering Factors**
ARSLAN KELAM A., KOÇKAR M. K. , AKGÜN H.
ENGGE0'2019: National Symposium on Engineering Geology and Geotechnics, Denizli, Turkey, 3 - 05 October 2019
- V. **Konya Killi Zeminlerinin Jeoteknik Uygulamalar İçin Bentonit İle İyileştirilmesi**
ARSLAN KELAM A., AKGÜN H., Öner G., KOÇKAR M. K.
18. Ulusal Kil Sempozyumu, Kocaeli, Turkey, 25 - 28 September 2019
- VI. **A Landslide Monitoring Methodology Applied to a Seismically Active Region by Using Optical Fiber Systems**
ARSLAN KELAM A., KOÇKAR M. K. , AKGÜN H.

- VI. International Earthquake Symposium (IESKO) 2019, Kocaeli, Turkey, 25 - 27 September 2019
- VII. **An Optical Fiber Based Early Warning System for Large Landslides**
ARSLAN KELAM A., KOÇKAR M. K. , AĞÜN H.
European Geosciences Union General Assembly (EGU), Viyana, Austria, 7 - 12 April 2019
- VIII. **FİBER OPTİK TABANLI HEYELAN İZLEME VE ERKEN UYARI SİSTEMİ**
Arslan A., Koçkar M. K. , Akgün H.
2. Ulusal Heyelan Sempozyumu, Ankara, Turkey, 11 - 12 October 2018
- IX. **MUDURNU VADİSİ KOMPLEKS KİNEMATİK YENİLME MEKANİZMALARININ İHA TEKNOLOJİSİ VE HAT ETÜDLERİ KULLANILARAK DEĞERLENDİRİLMESİ**
Arslan A., Akgün H., Koçkar M. K.
2. Ulusal Heyelan Sempozyumu, Ankara, Turkey, 11 - 12 October 2018
- X. **MUDURNU YAMAÇ ŞEVLERİNDEKİ DURAYSIZLIKLARIN İNSAN YAŞAMI VE TARİHİ YAPILAR İÇİN OLUŞTURDUĞU TEHDİT AÇISINDAN DEĞERLENDİRİLMESİ VE ÇÖZÜM ÖNERİLERİ**
Arslan A., Akgün H., Koçkar M. K.
International Symposium on Mudurnu Studies, Akhism and Folk Culture, Bolu, Turkey, 21 - 22 September 2018, pp.341-348
- XI. **Evaluation of the complex kinematic failure mechanisms along Mudurnu Valley, Bolu, Turkey through the utilization of UAV**
Kelam A., Akgün H., Koçkar M.
2nd International Discrete Fracture Network Engineering Conference, DFNE 2018, Washington, United States Of America, 20 - 22 June 2018
- XII. **A UAV Supported Evaluation of the Complex Kinematic Failures for the Discontinuous Rock Mass Slopes of Mudurnu Valley**
ARSLAN A., AĞÜN H., KOÇKAR M. K.
2nd International Symposium on Natural Hazards and Disaster Management (ISHAD2018), 4 - 06 May 2018
- XIII. **Evaluating modes of failure zones of the rock masses along Mudurnu Valley (Turkey) by using a unmanned aerial vehicle**
Arslan A., Koçkar M. K. , Akgün H.
European Geosciences Union General Assembly (EGU), Vienna, Austria, 8 - 13 April 2018, pp.13370
- XIV. **Heyelan Hareketlerinin Fiber Optik Sistemlerle İzlenmesi ve Değerlendirilmesi**
ARSLAN A., KOÇKAR M. K. , AĞÜN H.
7. Uluslararası Katılımlı Geoteknik Sempozyumu, İstanbul, Turkey, 22 - 24 November 2017
- XV. **SİSMİK AKTİVİTENİN VE YAĞIŞ DURUMUNUN HEYELANHAREKETLERİNE ETKİSİNİN FİBER OPTİK SİSTEMLERLEİZLENMESİ VE DEĞERLENDİRİLMESİ**
ARSLAN A., KOÇKAR M. K. , AĞÜN H.
4. Uluslararası deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017
- XVI. **ORTA KİLİNİN MİNERALojİK ÖZELLİKLERİ**
AĞÜN H., Günal Türkmenoğlu A., ARSLAN A., YOUSEFİBAVİL K., ÖNER G., KOÇKAR M. K.
17. Ulusal Kil Sempozyumu, Muğla, Turkey, 4 - 07 October 2017
- XVII. **ORTA KİLİ MİNERALojİK ÖZELLİKLERİNİN JEOTEKNİK PARAMETRELERE ETKİSİ**
AĞÜN H., Günal Türkmenoğlu A., ARSLAN A., YOUSEFİBAVİL K., ÖNER G., KOÇKAR M. K.
17. Ulusal Kil Sempozyumu, Muğla, Turkey, 4 - 07 October 2017
- XVIII. **Monitoring Bahçecik landslide in Kocaeli using optical fibers**
ARSLAN A., KOÇKAR M. K. , AĞÜN H.
7th Conference of Croatian Geotechnical Society with International Participation, Varazhdin, Croatia, 10 - 12 November 2016
- XIX. **ASSESSMENT OF THE EFFECT OF MINERALOGY ON THE GEOTECHNICAL PARAMETERS OF CLAYEY SOILS A CASE STUDY FOR ORTA COUNTY ÇANKIRI**
AĞÜN H., Günal Türkmenoğlu A., ARSLAN A., öner g., Yusefibavil K., KOÇKAR M. K. , Eker A. M.
5th Mediterranean Clay Meeting, İzmir, Turkey, 25 - 29 September 2016
- XX. **KÜTLE HAREKETLERİNİN İZLENMESİNDE FİBER OPTİK SİSTEMLERİN KULLANIMI**

ARSLAN A., KOÇKAR M. K. , AKGÜN H.

Uluslararası Doğal Afet ve Afet Yönetimi Sempozyumu (DAAYS'16), Karabük, Turkey, 2 - 04 March 2016

XXI. Slope movement monitoring with optical fiber technology

Arslan A., AKGÜN H., Koçkar M. K. , Eker A. M. , Kelam M. A.

ISRM Regional Symposium, EUROCK 2015, Salzburg, Austria, 7 - 10 October 2015, pp.419-424

XXII. Optical Fiber Technology to Monitor Slope Movement

Arzu A., Abdullah K. M. , Mert E. A. , Akgun H., Kockar M. K.

12th International IAEG Congress, Torino, Italy, 15 - 19 September 2014, pp.1425-1429

XXIII. A New Method for Monitoring Landslide and Slope Stability: Optical Fiber Technology

Kelam M. A. , Eker A. M. , AKGÜN H., ARSLAN A., KOÇKAR M. K.

66th Geological Congress of Turkey, Ankara, Turkey, 1 - 05 April 2013

Supported Projects

Akgün H., Koçkar M. K. , Project Supported by Other Official Institutions, Kocaeli İlinde Heyelan Hareketlerinin Erken Uyarı Sistemleri ile İzlenmesi, Depremle Meydana Gelen Sismik Hareketin ve Diğer Faktörlerin (Hidrojeolojik, Hidrolojik, Yağış koşulları) Heyelan Kütle Hareketlerinde Meydana Gelen Deformasyonlar Üzerindeki Etkilerinin ve Hassasiyetlerinin İncelenmesi, 2017 - 2021

AKGÜN H., KOÇKAR M. K. , ARSLAN KELAM A., ÖNER G., Project Supported by Higher Education Institutions, Konya Killerinin Jeoteknik Uygulamalarla Katı Atık İzolasyon Şiltesi olarak Kullanılması için Bentonit ile İyileştirilmesi, 2018 - 2020

AKGÜN H., Koçkar M. K. , ARSLAN KELAM A., Project Supported by Higher Education Institutions, Mudurnu İlçesi Kaya Kütlelerinin Karektarizasyonu, Şev Duraysızlığı Mekanizmalarının Belirlenmesi, Modellenmesi ve İslah Önerileri, 2017 - 2019

AKGÜN H., KOÇKAR M. K. , ATAŞ P., ARSLAN KELAM A., Project Supported by Higher Education Institutions, Heyelan Alanlarındaki Şevlerin Deformasyon Karakteristiği Özelliklerinin Doğrulanması ve Değerlendirilmesi, 2016 - 2017

Akgün H., Project Supported by Other Official Institutions, Kocaeli İli Heyelan Hareketlerinin İzlenmesinde Fiber Optik Teknolojisinin Kullanımı (UDAP), 2014 - 2017

AKGÜN H., ÖNER G., YOUSEFİ BAVİL K., Koçkar M. K. , GÜNAL TÜRK MENOĞLU A., ARSLAN KELAM A., Project Supported by Higher Education Institutions, Killi Zeminlerin Mineralojik ve Jeoteknik Parametrelerinin Denetleştirilmesi: Çankırı İli Orta İlçesi İçin Örnek Bir Çalışma, 2015 - 2016

AKGÜN H., ARSLAN KELAM A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

AKGÜN H., ARSLAN KELAM A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

AKGÜN H., ARSLAN KELAM A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

Memberships / Tasks in Scientific Organizations

Clay Science Society, Member, 2014 - Continues

Scientific Refereeing

SN APPLIED SCIENCES, SCI Journal, November 2020

Tasks In Event Organizations

Arslan Kelam A., Ay B. Ö. , 5. International Conference on Earthquake Engineering and Seismology, Scientific Congress, Ankara, Turkey, Ekim 2019

Arslan Kelam A., European Geosciences Union General Assembly 2019, Scientific Congress, Vienna, Austria, Nisan 2019

Mobility Activity

Research Scholarship Program, Research During Graduate Education, Purdue University, United States Of America, 2020 - 2020

Other Exchange Programme, Other, Tokyo Institute of Technology, Japan, 2019 - 2019

Citations

Total Citations (WOS):11

h-index (WOS):2

Scholarships

International Research Fellowship Programme for PhD Students, TUBITAK, 2020 - 2020

Tokyo Institute of Technology Fund, University, 2019 - 2019