

Asst. Prof. NURETTİN YILDIRIM GÜNDOĞDU

Personal Information

Office Phone: [+90 6000100](tel:+906000100) Extension: 1818

Web: <https://avesis.ankara.edu.tr/101935>

Address: Ankara Üniversitesi Mühendislik Fakültesi Jeofizik Mühendisliği Bölümü 50. Yıl Yerleşkesi, Bahçelievler Mahallesi, 30 Sokak 11/H, 06830 Gölbaşı, Ankara, Türkiye

International Researcher IDs

ORCID: 0000-0001-6619-4280

Publons / Web Of Science ResearcherID: AAD-5996-2020

ScopusID: 57205550425

Yoksis Researcher ID: 104108

Biography

I was born in Ankara in 1981. I completed primary, secondary and high school education here. I graduated from Ankara University, Department of Geophysical Engineering in 2002 with the title of Geophysical Engineer. I completed my master's degree in 2005 and my doctorate in 2013 at Ankara University, Institute of Science and Technology, Department of Geophysics Engineering. During my doctoral education, I worked at TU Bergakademie Freiberg (Germany) for 1 year. In my doctoral study, I developed a new three-dimensional inversion algorithm for the interpretation of direct current resistivity data. I have been working as a Research Assistant at Ankara University, Department of Geophysical Engineering since 2004. My field of study is multidimensional modeling and inversion in applied geophysical methods. I have publications in journals scanned as SCI-index covering these topics, oral and poster presentations in international and national refereed congresses/conferences/workshops, and project studies supported by different sources as an executive and researcher.

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Jeofizik Mühendisliği (Dr), Turkey 2005 - 2014

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Jeofizik Mühendisliği (YI) (Tezli), Turkey 2002 - 2005

Undergraduate, Ankara University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, Turkey 1998 - 2002

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Three Dimensional Regularized Consecutive Inversion for Direct Current Resistivity Data, Ankara University, Fen Bilimleri Enstitüsü, Jeofizik Mühendisliği (Dr), 2013

Postgraduate, Zaman ortamı yapay uçuşma verilerinin mühendislik jeofiziğinde kullanılabilirliğinin araştırılması, Ankara University, Fen Bilimleri Enstitüsü, Jeofizik Mühendisliği (YI) (Tezli), 2005

Research Areas

Geophysical Engineering, Applied Geophysics

Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2022 - Continues

Research Assistant, Ankara University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2004 - 2022

Academic and Administrative Experience

Deputy Head of Department, Ankara University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2023 - Continues

Courses

GEOPHYSICAL DATA PROCESSING, Undergraduate, 2023 - 2024

NUMERICAL MODELING, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigating the Use of Stainless Steel Electrodes with the IP Method: A Metallic Ore Deposit Example**
GÜNDOĞDU N. Y., DEMİRCİ İ., Ozyildirim O., Aktarakci H., CANDANSAYAR M. E.
PURE AND APPLIED GEOPHYSICS, vol.179, no.1, pp.265-274, 2022 (SCI-Expanded)
- II. **Determination and Evaluation of Saltwater Intrusion on Bafra Plain: Joint Interpretation of Geophysical, Hydrogeological and Hydrochemical Data**
DEMİRCİ İ., GÜNDOĞDU N. Y., CANDANSAYAR M. E., Souplos P., Vafidis A., ARSLAN H.
PURE AND APPLIED GEOPHYSICS, vol.177, no.11, pp.5621-5640, 2020 (SCI-Expanded)
- III. **Two dimensional joint inversion of direct current resistivity and radiomagnetotelluric data based on unstructured mesh**
Ozyildirim O., DEMİRCİ İ., GÜNDOĞDU N. Y., CANDANSAYAR M. E.
JOURNAL OF APPLIED GEOPHYSICS, vol.172, 2020 (SCI-Expanded)
- IV. **Characterization of the bridge pillar foundations using 3d focusing inversion of DC resistivity data**
GÜNDOĞDU N. Y., DEMİRCİ İ., Demirel C., CANDANSAYAR M. E.
JOURNAL OF APPLIED GEOPHYSICS, vol.172, 2020 (SCI-Expanded)
- V. **Three-dimensional regularized inversion of DC resistivity data with different stabilizing functionals**
GÜNDOĞDU N. Y., CANDANSAYAR M. E.
GEOPHYSICS, vol.83, no.6, 2018 (SCI-Expanded)
- VI. **Rescue Archaeology Application: Investigation of Kuriki Mound Archaeological Area (Batman, SE Turkey) by using Direct Current Resistivity and Magnetic Methods**
GÜNDOĞDU N. Y., CANDANSAYAR M. E., GENÇ E.
JOURNAL OF ENVIRONMENTAL AND ENGINEERING GEOPHYSICS, vol.22, no.2, pp.177-189, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Samsun Baruthane tümülüslerinin doğru akım öz direnç yöntemi ile incelenmesi**
AKCA İ., GÜNDOĞDU N. Y.
Yer Bilimleri, vol.31, no.3, pp.205-215, 2010 (Peer-Reviewed Journal)

Books & Book Chapters

I. Jeofizik Arařtırmalar

Dikmen Ü., Akca İ., Gündoğdu N. Y.

in: Ankara Kenti Batısındaki Zeminlerin Jeolojik Jeofizik Jeoteknik Özellikleri ve Dinamik Davranışı, Ahmet T. Başokur, Editor, Ankara Üniversitesi, Ankara, pp.65-98, 2010

Refereed Congress / Symposium Publications in Proceedings

- I. **Yapı Elemanları Üzerinde Küçük Ölçekli Doğru Akım Özdirenç Yönteminin Uygulanabilirliğinin Arařtırılması**
ARICAN C., CANDANSAYAR M. E., GÜNDOĞDU N. Y.
8. YER ELEKTRİK ÇALIřTAYI, Trabzon, Turkey, 16 May 2022
- II. **3D subsurface resistivity imaging using a modified roll-along measurement technique**
GÜNDOĞDU N. Y., Karakulak G., CANDANSAYAR M. E.
26th European Meeting of Environmental and Engineering Geophysics, Held at Near Surface Geoscience 2020, Virtual, Online, 7 - 08 December 2020
- III. **REVIEW: NEW DEVELOPEMENTS IN 2D/3D MODELING AND INVERSION OF GEOPHYSICAL ELECTRICAL METHODS**
CANDANSAYAR M. E., GÜNDOĞDU N. Y.
New Trends in Geophysics and Engineering 2018, 7 - 09 November 2018
- IV. **Comparison of stainless steel and non-polarizable electrodes in IP method - A metallic mine deposit example**
GÜNDOĞDU N. Y., DEMİRCİ İ., Aktarakci H., CANDANSAYAR M. E.
2nd Conference on Geophysics for Mineral Exploration and Mining, Porto, Portugal, 9 - 13 September 2018
- V. **Determination of bridge foot foundations using DCR method**
GÜNDOĞDU N. Y., DEMİRCİ İ., Demirel C., CANDANSAYAR M. E.
9th Congress of the Balkan Geophysical Society, BGS 2017, Belek, Antalya, Turkey, 5 - 09 November 2017, vol.2017-November
- VI. **Interpretation of geophysical data for saltwater intrusion on bafra plain guided by hydrogeological and hydrochemical data**
DEMİRCİ İ., CANDANSAYAR M. E., Souplos P., Vafidis A., Arslan H., GÜNDOĞDU N. Y.
9th Congress of the Balkan Geophysical Society, BGS 2017, Belek, Antalya, Turkey, 5 - 09 November 2017, vol.2017-November
- VII. **Two dimensional joint inversion of magnetotelluric and passive seismic data on GPU**
CANDANSAYAR M. E., DEMİRCİ İ., GÜNDOĞDU N. Y., Varılsüha D., YILMAZ A. E.
23rd EM Induction Workshop, Chiang Mai, Thailand, 14 - 20 August 2016
- VIII. **Doğru Akım Özdirenç Yönteminde Üç Boyutlu Düz Çözümün CUDA ile Hızlandırılması**
GÜNDOĞDU N. Y., DEMİRCİ İ., CANDANSAYAR M. E., Varılsüha D.
6. Yer Elektrik Çalıştay, Kocaeli, Turkey, 23 - 25 May 2016
- IX. **Manyetotellürik ve Pasif Sismik Verilerin GPU Üzerinde 2 B Birleşik Ters Çözümü**
CANDANSAYAR M. E., DEMİRCİ İ., GÜNDOĞDU N. Y., VARILSÜHA D., YILMAZ A. E.
6. Yer Elektrik Çalıştay, Turkey, 23 - 25 May 2016
- X. **Acceleration of three-dimensional direct current resistivity modelling using GPU computing**
GÜNDOĞDU N. Y., DEMİRCİ İ., Varılsüha D., CANDANSAYAR M. E., YILMAZ A.
22nd European Meeting of Environmental and Engineering Geophysics, Near Surface Geoscience 2016, Barcelona, Spain, 4 - 08 September 2016
- XI. **Comparison of different stabilizing functional in 3D regularized inversion of direct current resistivity data**
GÜNDOĞDU N. Y., CANDANSAYAR M. E.

20th European Meeting of Environmental and Engineering Geophysics of EAGE's Near Surface Geoscience Division, Athens, Greece, 14 - 18 September 2014

XII. Investigation of landslide by using 2D/3D resistivity imaging

CANDANSAYAR M. E., GÜNDOĞDU N. Y., Aktarakci H.

17th European Meeting of Environmental and Engineering Geophysics, Near Surface 2011, Leicester, United Kingdom, 12 - 14 September 2011

XIII. Karstik Boşlukların Belirlenmesine Yönelik Jeofizik Araştırmalar Baraj Sahasında Yapılan Çalışmalar

AKCA İ., GÜNDOĞDU N. Y.

Türkiye 16. Jeofizik Kongre ve Sergisi, Turkey, 7 - 10 December 2004

Metrics

Publication: 22

Citation (WoS): 48

Citation (Scopus): 67

H-Index (WoS): 4

H-Index (Scopus): 5