

## Asst. Prof. YİĞİT MAHMUTOĞLU

### Personal Information

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### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği/Elektronik Anabilim Dalı, Turkey 2013 - 2019

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği/Elektronik Anabilim Dalı, Turkey 2010 - 2013

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2005 - 2010

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Sualtı Doğalgaz Boru Hatlarındaki Sızıntıların Pasif Akustik Yöntemlerle İki Boyutlu Konumlandırılması, Karadeniz Technical University, Güneysu Fizik Tedavi ve Rehabilitasyon Yüksekokulu, Elektrik-Elektronik Mühendisliği Bölümü / Elektronik Bilim Dalı , 2019

Postgraduate, DENİZALTI AKUSTİK HABERLEŞME KANALLARININ KARAR GERİBESLEMELİ DENKLEŞTİRİCİ İLE BAŞARIM ANALİZİ, Karadeniz Technical University, Güneysu Fizik Tedavi ve Rehabilitasyon Yüksekokulu, Elektrik-Elektronik Mühendisliği/Elektronik Anabilim Dalı, 2013

### Research Areas

Electrical and Electronics Engineering, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2019 - Continues

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2010 - 2013

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

- Positioning of leakages in underwater natural gas pipelines for time-varying multipath environment**  
Mahmutoğlu Y., Türk K.  
Ocean Engineering, vol.207, 2020 (Journal Indexed in SCI)

- II. **Received signal strength difference based leakage localization for the underwater natural gas pipelines**  
Mahmutoglu Y., TÜRK K.  
APPLIED ACOUSTICS, vol.153, pp.14-19, 2019 (Journal Indexed in SCI)
- III. **A passive acoustic based system to locate leak hole in underwater natural gas pipelines**  
Mahmutoglu Y., TÜRK K.  
DIGITAL SIGNAL PROCESSING, vol.76, pp.59-65, 2018 (Journal Indexed in SCI)
- IV. **Measurement and mapping of the GSM-based electromagnetic pollution in the Black Sea region of Turkey**  
TUYSUZ B., Mahmutoglu Y.  
ELECTROMAGNETIC BIOLOGY AND MEDICINE, vol.36, no.2, pp.132-140, 2017 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Modeling of Underwater Wireless Optical Communication Channel by Monte Carlo Based 6 Radiative Transfer Equation**  
Albayrak C., Mahmutoğlu Y., Türk K.  
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, pp.1, 2021 (National Refreed University Journal)
- II. **Investigation of Underwater Wireless Optical Communication Channel Capacity for Different Environment and System Parameters**  
Mahmutoğlu Y., Albayrak C., Türk K.  
Hittite Journal of Science and Engineering, vol.1, pp.1, 2021 (National Refreed University Journal)
- III. **Investigation of positioning of the leakages in underwater natural gas pipelines in time and frequency selective acoustic channel**  
MAHMUTOĞLU Y., TÜRK K.  
Pamukkale University Journal of Engineering Sciences, vol.26, no.5, pp.908-915, 2020 (Journal Indexed in ESCI)
- IV. **Investigation of Remote Sensing Distances of Aircrafts With Underwater Passive Acoustic System**  
Mahmutoğlu Y.  
El-Cezerî Fen ve Mühendislik Dergisi, vol.1, pp.1, 2020 (National Refreed University Journal)
- V. **Sualtı Doğalgaz Boru Hatlarındaki Sızıntıların Eğri Uydurma Tabanlı Alınan Sinyalin Gücü Yöntemiyle Konumlandırılması**  
MAHMUTOĞLU Y., Türk K.  
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.99-108, 2020 (National Refreed University Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Localization of Leakages in Underwater Natural Gas Pipelines for Multipath Propagation**  
Mahmutoglu Y., TÜRK K.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- II. **Remote Leak Hole Localization for Underwater Natural Gas Pipelines**  
Mahmutoglu Y., TÜRK K.  
40th International Conference on Telecommunications and Signal Processing (TSP), Barcelona, Spain, 5 - 07 July 2017, pp.528-531
- III. **Remote Leak Detection for Underwater Natural Gas Pipelines**  
Mahmutoglu Y., TÜRK K.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- IV. **Particle Swarm Optimization Algorithm Based Decision Feedback Equalizer for Underwater Acoustic Communication**

Mahmutoglu Y., TÜRK K., TUĞCU E.

39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.153-156

**V. Rize’de Yapılan GSM Kaynaklı Elektromanyetik Radyasyon Ölçümlerinin Kriging Enterpolasyonu Kullanılarak Haritalandırılması**

TÜYSÜZ B., MAHMUTOĞLU Y.

Elektromanyetik Alanlar ve Etkileri Sempozyumu,, Mersin, Turkey, 13 - 15 November 2015, pp.1-4

**VI. Rize’de Yapılan GSM Kaynaklı Elektromanyetik Radyasyon Ölçümlerinin Kriging Enterpolasyonu Kullanılarak Haritalandırılması**

TÜYSÜZ B., MAHMUTOĞLU Y.

Elektromanyetik Alanlar ve Etkileri Sempozyumu, Mersin, Turkey, 13 - 15 November 2015, pp.1-4

**VII. An Early Warning System Design for Steel Frame Trusses**

GÜRBÜZ A., MAHMUTOĞLU Y., TERZİ C.

International Congress on Engineering and Natural Sciences, Üsküp, Macedonia, 11 - 15 May 2015, pp.479-486

**VIII. The effects of sea environmental conditions on the underwater acoustic communication systems**

MAHMUTOĞLU Y., YAZGAN A., TUĞCU E., ÇAVDAR İ. H.

Telecommunications and Signal Processing (TSP), 2013 36th International Conference on, 02 July 2013 - 04 July 2014

## Supported Projects

Kanburoğlu M. K. , Beyatlı E., Mahmutoğlu Y., TUBİTAK Project, SİMÜLASYON TABANLI SAĞLIK EĞİTİMLERİ İÇİN SANAL HASTA MONİTÖRÜ VE STETOSKOPI, 2020 - 2021

Türk K., Mahmutoğlu Y., Project Supported by Higher Education Institutions, Sualtı Doğalgaz Boru Hatlarındaki Sızıntı Delik Konumunun ve Delik Çapının Uzaktan Tespiti, 2017 - 2020

## Scientific Refereeing

IEEE Access, SCI Journal, February 2017

## Citations

Total Citations (WOS):41

h-index (WOS):4

## Scholarships

TÜBİTAK LİSANSÜSTÜ BURSUSU, TUBİTAK, 2013 - Continues