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### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Türkiye 2011 - 2017

Yüksek Lisans, Gebze Teknik Üniversitesi, Mühendislik ve Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Türkiye 2009 - 2011

Lisans, Gebze Teknik Üniversitesi, Mühendislik Fakültesi, Elektronik Mühendisliği, Türkiye 2004 - 2009

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **An Innovative Pipe Inspection Tool Utilizing Electromagnetic Resonance Coupling and Machine Learning**  
Mostafa T. M., Ooi G., ÖZAKIN M. B., Khater M., Zeglache M. L., Bagci H., Ahmed S.  
IEEE Transactions on Industrial Electronics, cilt.71, sa.5, ss.5338-5348, 2024 (SCI-Expanded)
- II. **A Locally-Implicit Discontinuous Galerkin Time-Domain Method to Simulate Metasurfaces Using Generalized Sheet Transition Conditions**  
Chen L., ÖZAKIN M. B., Zhao R., Bagci H.  
IEEE Transactions on Antennas and Propagation, cilt.71, sa.1, ss.869-881, 2023 (SCI-Expanded)
- III. **A Memory-Efficient Implementation of Perfectly Matched Layer with Smoothly Varying Coefficients in Discontinuous Galerkin Time-Domain Method**  
Chen L., ÖZAKIN M. B., Ahmed S., Bagci H.  
IEEE Transactions on Antennas and Propagation, cilt.69, sa.6, ss.3605-3610, 2021 (SCI-Expanded)
- IV. **Application of Magneto-Quasi-Static Approximation in the Finite Difference Time Domain Method**  
ÖZAKIN M. B., Aksoy S.  
IEEE Transactions on Magnetics, cilt.52, sa.8, 2016 (SCI-Expanded)
- V. **Ultra-wide band antenna designs and numerical system modelling for forward-looking GPR**  
TÜRK A. S., Aksoy S., Keskin A. K., Senturk M. D., ÇALIŞKAN A., Ozakin M. B.  
NEAR SURFACE GEOPHYSICS, cilt.13, sa.3, 2015 (SCI-Expanded)
- VI. **Open problems in CEM: A new look at the stability analysis of the finite-difference time-domain method**  
Ergül Ö., Aksoy S., ÖZAKIN M. B.  
IEEE Antennas and Propagation Magazine, cilt.56, sa.1, ss.293-299, 2014 (SCI-Expanded)
- VII. **A constant recursive convolution technique for frequency dependent scalar wave equation based FDTD algorithm**

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Multi-Frequency Data Acquisition Model and Hybrid Neural Network for Precise Electromagnetic Wellbore Casing Inspection**  
Ooi G. A., Khater M., ÖZAKIN M. B., Mostafa T. M., Bagci H., Ahmed S.  
Abu Dhabi International Petroleum Exhibition and Conference 2022, ADIPEC 2022, Abu Dhabi, Birleşik Arap Emirlikleri, 31 Ekim - 03 Kasım 2022
- II. **A Discontinuous Galerkin Time-Domain Method to Simulate Metasurfaces using Generalized Sheet Transition Conditions**  
Chen L., ÖZAKIN M. B., Zhao R., Bagci H.  
2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, AP-S/URSI 2022, Colorado, Amerika Birleşik Devletleri, 10 - 15 Temmuz 2022, ss.1670-1671
- III. **Remote Field Eddy Current System Using Three Axis Fluxgate Magnetometer for Corrosion Inspection**  
Khater M., Mostafa T., Ooi G., ÖZAKIN M. B., Zeghlache M. L., Bagci H., Ahmed S.  
2022 SPE Annual Technical Conference and Exhibition, ATCE 2022, Texas, Amerika Birleşik Devletleri, 3 - 05 Ekim 2022, cilt.2022-October
- IV. **A Transmitter-Less Inspection Tool for Pipe Defect Detection and Characterization**  
Mostafa T. M., Khater M., ÖZAKIN M. B., Ooi G., Bagci H., Ahmed S.  
2022 SPE Annual Technical Conference and Exhibition, ATCE 2022, Texas, Amerika Birleşik Devletleri, 3 - 05 Ekim 2022, cilt.2022-October
- V. **A Stable Discontinuous Galerkin Time-Domain Method for Simulation of Thin Conductive Layers**  
ÖZAKIN M. B., Chen L., Ahmed S., Bagci H.  
2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, AP-S/URSI 2022, Colorado, Amerika Birleşik Devletleri, 10 - 15 Temmuz 2022, ss.1350-1351
- VI. **Near-And Remote-Field Eddy Current Data Fusion: Wellbore Casing Inspection with Hybrid Neural Networks**  
Ooi G. A., Mostafa T. M., Khater M., ÖZAKIN M. B., Bagci H., Ahmed S.  
Abu Dhabi International Petroleum Exhibition and Conference 2022, ADIPEC 2022, Abu Dhabi, Birleşik Arap Emirlikleri, 31 Ekim - 03 Kasım 2022
- VII. **On Stability of Discontinuous Galerkin Time-Domain Method for Conductive Medium**  
ÖZAKIN M. B., Chen L., Ahmed S., Bagci H.  
22nd International Conference on Electromagnetics in Advanced Applications, ICEAA 2021, Hawaii, Amerika Birleşik Devletleri, 9 - 13 Ağustos 2021, ss.69
- VIII. **Stability analysis of discontinuous galerkin time-domain method for conductive media**  
ÖZAKIN M. B., Chen L., Ahmed S., Bagci H.  
2021 International Applied Computational Electromagnetics Society Symposium, ACES 2021, Virtual, Hamilton, Kanada, 1 - 05 Ağustos 2021
- IX. **EM-based 2D corrosion azimuthal imaging using physics informed machine learning PIML**  
Ooi G. A., ÖZAKIN M. B., Mostafa T. M., Bagci H., Ahmed S., Zeghlache M. L.  
SPE Offshore Europe Conference and Exhibition 2021, OE 2021, Virtual, Online, 7 - 10 Eylül 2021
- X. **A Low-Storage PML Implementation within a High-order Discontinuous Galerkin Time-Domain Method**  
Chen L., ÖZAKIN M. B., Bagci H.  
2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, IEEECONF 2020, Virtually, Toronto, Kanada, 5 - 10 Temmuz 2020, ss.1065-1066
- XI. **Computation of Fields from a Magnetic Dipole in a Conductive Medium Using the QS-DGTD Method**

ÖZAKIN M. B., Chen L., Ahmed S., Bagci H.

2019 International Applied Computational Electromagnetics Society Symposium in Miami, ACES-Miami 2019, Florida, Amerika Birleşik Devletleri, 14 - 18 Nisan 2019

**XII. Numerical calculation of magnetic dipole fields by three-dimensional QS-FDTD method**

ÖZAKIN M. B., Aksoy S.

2017 Progress In Electromagnetics Research Symposium - Spring, PIERS 2017, St. Petersburg, Rusya, 22 - 25 Mayıs 2017, ss.3293-3296

**XIII. Ultra wide band TEM horn and reflector antenna designs for down and forward looking ground penetrating radars**

TÜRK A. S., KESKİN A. K., Dagcan Senturk M., MAĞAT A., ÖZAKIN M. B., Aksoy S.

2013 7th International Workshop on Advanced Ground Penetrating Radar, IWAGPR 2013, Nantes, Fransa, 2 - 05 Temmuz 2013

## **Metrikler**

Yayın: 20

Atf (Scopus): 73

H-İndeks (Scopus): 6

## **Ödüller**

Özakın M. B., Leopold B. Felsen Award for Excellence in Electromagnetics, Prof. Dr. Leopold B. Felsen Fund - Boston, Ocak 2016