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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Telekomunikasyon Müh., Turkey 2013 - 2017
Undergraduate, Istanbul Technical University, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Müh., Turkey 2010 - 2013

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Qualitative Methods in Microwave Imaging, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Telekomunikasyon Müh., 2017

Research Areas

Technical Sciences, Electrical and Electronics Engineering, Electromagnetic, Wave Propagation and Remote Sensing, Electromagnetic Waves, Antennas and Propagation

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Müh., 2018 - Continues
Assistant Professor, Istanbul Technical University, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Müh., 2017 - 2018

Courses

Elektromagnetik Alanlara Giriş, Undergraduate, 2017 - 2018

Introduction to Electronics and Communication Engineering, Undergraduate, 2017 - 2018
Theory of Complex Functions, Undergraduate, 2017 - 2018
Electromagnetic Waveguides, Doctorate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Improving the Accuracy of Range Migration in 3-D Near-Field Microwave Imaging**
Doğu S., Tajik D., Akıncı M. N., Nikolova N. K.
IEEE Transactions on Microwave Theory and Techniques, vol.71, no.8, pp.3540-3551, 2023 (SCI-Expanded)

II. **A BIM-Based Algorithm for Quantitative Monitoring of Temperature Distribution during Breast Hyperthermia Treatments**
Önal H., Yılmaz Abdolsaheb T., Akıncı M. N.
IEEE Access, vol.11, pp.38680-38695, 2023 (SCI-Expanded)

III. **Maximum Likelihood Estimation of Debye Relaxation Parameters with Open-Ended Coaxial Probes**
Dilman I., Çayören M., Akıncı M. N.
IEEE Transactions on Instrumentation and Measurement, vol.72, 2023 (SCI-Expanded)

IV. **Monitoring of intracerebral hemorrhage with a linear microwave imaging algorithm**
Dilman İ., Bilgin E., Akıncı M. N., Cosgun S., Doğu S., Çayören M., Akduman İ.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.61, no.1, pp.33-43, 2023 (SCI-Expanded)

V. **Continuous Monitoring of Hyperthermia Treatment of Breast Tumors With Singular Sources Method**
Doğu S., Önal H., Yılmaz Abdolsaheb T., Akduman I., Akıncı M. N.
IEEE Access, vol.11, pp.6584-6593, 2023 (SCI-Expanded)

VI. **A Guideline for Complex Permittivity Retrieval of TissueMimicking Phantoms From OpenEnded Coaxial Probe Response With Deep Learning**
Joof S., Aydinalp C., Dilman İ., Akıncı M. N., Yilmaz T., Çayören M., Akduman İ.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.70, no.11, pp.5105-5115, 2022 (SCI-Expanded)

VII. **Antenna Excitation Optimization with Deep Learning for Microwave Breast Cancer Hyperthermia**
Yildiz G., Yasar H., Uslu I. E., Demirel Y., Akıncı M. N., Yilmaz T., Akduman İ.
Sensors, vol.22, no.17, 2022 (SCI-Expanded)

VIII. **A Method to Measure Complex Dielectric Permittivity With Open-Ended Coaxial Probes**
Dilman İ., Akıncı M. N., Yilmaz T., Çayören M., Akduman İ.
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol.71, 2022 (SCI-Expanded)

IX. **Microwave Dielectric Property Retrieval From Open-Ended Coaxial Probe Response With Deep Learning**
Aydinalp C., Joof S., Akıncı M. N., Akduman İ., Yilmaz T.
IEEE ACCESS, vol.10, pp.1216-1227, 2022 (SCI-Expanded)

X. **Experimental Moving Target Imaging in a Nonanechoic Environment With Linear Sampling Method**
Doğu S., Akıncı M. N., Gose E.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.18, no.3, pp.441-445, 2021 (SCI-Expanded)

XI. **Physical Insight Unveils New Imaging Capabilities of Orthogonality Sampling Method**
Bevacqua M. T., Isernia T., Palmeri R., Akıncı M. N., Crocco L.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.68, no.5, pp.4014-4021, 2020 (SCI-Expanded)

XII. **Truncated singular value decomposition for through-the-wall microwave imaging application**
Doğu S., Akıncı M. N., Çayören M., Akduman İ.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.14, no.4, pp.260-267, 2020 (SCI-Expanded)

XIII. **Estimation of the Effective Electrical Parameters in Two-Dimensional Transverse Electric Case**
Akıncı M. N., Gose E., Akduman İ., Crocco L.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.68, no.1, pp.468-481, 2020 (SCI-Expanded)

XIV. **Estimation of the electrical parameters and dimensions of an impedance cylinder with**

monoview/monostatic measurement system
Doğu S., Akıncı M. N., Gose E.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.2, pp.743-752, 2020 (SCI-Expanded)

XV. **Qualitative microwave imaging of breast cancer with contrast agents**
Akıncı M. N., Çayören M., Gose E.
PHYSICS IN MEDICINE AND BIOLOGY, vol.64, no.11, 2019 (SCI-Expanded)

XVI. **An Efficient Sampling Method for Cross-Borehole GPR Imaging**
Akıncı M. N.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.15, no.12, pp.1857-1861, 2018 (SCI-Expanded)

XVII. **Improving Near-Field Orthogonality Sampling Method for Qualitative Microwave Imaging**
Akıncı M. N.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.66, no.10, pp.5475-5484, 2018 (SCI-Expanded)

XVIII. **A fast hybrid method for the bandgap analysis of 2D photonic crystals based on EMT and AFGSM methods**
ERKAN O., Akıncı M. N., Şimşek S.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.89, pp.1-6, 2018 (SCI-Expanded)

XIX. **A Simple Approach for Estimating the Effective Electric Parameters of 2-D Targets**
Akıncı M. N., Çayören M., Akduman İ., Crocco L.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.66, no.4, pp.2026-2034, 2018 (SCI-Expanded)

XX. **Bandgap analysis of 2D photonic crystals with Auxiliary Functions of Generalized Scattering Matrix (AFGSM) method**
Erkan O., Akıncı M. N., Şimşek S.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.95, pp.287-296, 2018 (SCI-Expanded)

XXI. **Experimental Microwave Imaging With a Novel Corrugated Vivaldi Antenna**
ABBAK M., Akıncı M. N., Çayören M., Akduman İ.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.65, no.6, pp.3302-3307, 2017 (SCI-Expanded)

XXII. **Wideband compact dipole antenna for microwave imaging applications**
Abbak M., AKINCI M. N., ERTAY A. O., OZGUR S., ISIK C., Akduman İ.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.11, no.2, pp.265-270, 2017 (SCI-Expanded)

XXIII. **Near-Field Orthogonality Sampling Method for Microwave Imaging: Theory and Experimental Verification**
Akıncı M. N., CAYOREN M., Akduman İ.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.64, no.8, pp.2489-2501, 2016 (SCI-Expanded)

XXIV. **Qualitative Microwave Imaging With Scattering Parameters Measurements**
Akıncı M. N., CAGLAYAN T., OZGUR S., ALKASI U., AHMADZAY H., ABBAK M., CAYOREN M., Akduman İ.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.63, no.9, pp.2730-2740, 2015 (SCI-Expanded)

XXV. **Experimental Assessment of Linear Sampling and Factorization Methods for Microwave Imaging of Concealed Targets**
Akıncı M. N., CAGLAYAN T., Özgür S., ALKASI U., ABBAK M., Çayören M.
INTERNATIONAL JOURNAL OF ANTENNAS AND PROPAGATION, 2015 (SCI-Expanded)

XXVI. **Microwave subsurface imaging of buried objects under a rough air-soil interface**
Akıncı M. N., Çayören M.
REMOTE SENSING LETTERS, vol.5, no.8, pp.703-712, 2014 (SCI-Expanded)

Articles Published in Other Journals

I. **Analysis of the Performance of the NOSM for High Contrast Targets**
AKINCI M. N.
Sakarya University Journal of Science, vol.23, pp.1, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Estimation of Electrical Properties of Infinite Slab with Newton'xxs Method**
AKINCI M. N.
2018 18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018

II. **Assessment of Linear Sampling Method and Factorization Method for Through the Wall Imaging**
Doğu S., Akıncı M. N.
26th Telecommunications Forum (TELFOR), Belgrade, Serbia And Montenegro, 20 - 21 November 2018, pp.513-516

III. **Detection of the Cavities Inside a Target with Near Field Orthogonality Sampling Method**
Akıncı M. N.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.391-393

IV. **Estimation of Electrical Properties of Infinite Slab With Newton's Method**
Akıncı M. N.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.262-263

V. **Differential Microwave Imaging of the Stroke-affected Brain via Diffraction Tomography**
Dilman İ., Akıncı M. N., Çayören M., Akduman İ.
25th Telecommunication Forum (TELFOR), Belgrade, Serbia And Montenegro, 21 - 22 November 2017, pp.444-447

VI. **Explicit Discretization Schemes for Linear Sampling and Factorization Methods**
AKINCI M. N., ÇAYÖREN M.
36th Progress In Electromagnetics Research Symposium, 6 - 09 July 2015

VII. **Schur Complement Based Method of Moments Solution for 2D Scattering Problem from Mixed Dielect ric conductor Targets**
AKINCI M. N., ÇAYÖREN M.
36th Progress In Electromagnetics Research Symposium, 6 - 09 July 2015

VIII. **On the Accuracy of Method of Moments for Solution of Full 3D Vectorial Electromagnetic Forward Scat tering Problem**
GÜREN O., AKINCI M. N., ÇAYÖREN M.
36th Progress In Electromagnetics Research Symposium, 6 - 09 July 2015

IX. **Experimental Comparison of Qualitative Inverse Scattering Methods**
Akıncı M. N., Abbak M., Özgür S., Çayören M., Akduman İ.
IEEE Conference on Antenna Measurements and Applications (CAMA), Antibes, France, 16 - 19 November 2014

X. **Modelling of User Behaviour in Cellular Networks**
Dalman E., Akıncı M. N., Karabulut Kurt G. Z.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.2019-2022

Metrics

Publication: 51
Citation (WoS): 187
Citation (Scopus): 286
H-Index (WoS): 6
H-Index (Scopus): 8

Non Academic Experience

MİLLİ SAVUNMA ÜNİVERSİTESİ
MİTOS MEDİKAL TEKNOLOJİLER SAN. TİC. A.Ş.