ABDURRAHİM TOKTAŞ
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International Researcher IDs

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Biography

Abdurrahim Toktaş received his bachelor's degree in Electrical and Electronics Engineering (English) from Gaziantep University in 2002. He completed his master's and doctorate degrees at Mersin University, Department of Electrical and Electronics Engineering in 2010 and 2014, respectively. He worked at Türk Telekom Information Networks and Transmission units between 2003-2010 and Mersin University Department of Information Processing between 2010-2015. After completing his PhD education, he worked as the founding head of the department and then as a faculty member in the Department of Electrical and Electronics Engineering at Karamanoğlu Mehmetbey University between 2015-2022. Since 2022, Abdurrahim Toktaş has been working as the founding head of the department of Artificial Intelligence and Data Engineering at Ankara University with the title of professor. His main research interests include artificial intelligence, machine learning, optimization, chaotic systems, computer vision, image retrieval, image encryption, and electromagnetic and antenna applications of artificial intelligence. So far, he has supervised 6 graduate theses and has 8 patents, 11 projects, 6 books and book chapters, 66 SCI articles, 14 international articles and 42 proceedings. Abdurrahim Toktaş has managed to enter the list of top 2% researchers in the world between 2021-2024.

Education

Doctorate 2010 - 2014	Mersin University, Instıtute Of Scıence, Electrical and Electronics Engineering, Turkey
Postgraduate 2007 - 2010	Mersin University, Instıtute Of Scıence, Electrical and Electronics Engineering, Turkey
Undergraduate 1997 - 2002	Gaziantep University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıcs Engıneerıng (Englısh), Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, LTE, WiMAX ve WLAN iletişim sistemleri için MIMO anten tasarımları ve prototiplerinin gerçekleştirilmesi, Mersin University, Instıtute Of Scıence, Elektrik-Elektronik Mühendisliği, 2014

Postgraduate, Farksal gelişim algoritması kullanarak h şekilli mikroşerit antenlerin rezonans frekansının hesaplanması, Mersin University, Instıtute Of Scıence, Elektrik-Elektronik Mühendisliği, 2009

Academic Titles / Tasks

Professor 2023 - Continues	Ankara University, Mühendislik Fakültesi, Yapay Zeka ve Veri Mühendisliği Bölümü
Associate Professor 2022 - 2023	Ankara University, Mühendislik Fakültesi, Yapay Zeka ve Veri Mühendisliği Bölümü
Associate Professor 2018 - 2022	Karamanoglu Mehmetbey University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıcs Engıneerıng
Assistant Professor 2015 - 2018	Karamanoglu Mehmetbey University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıcs Engıneerıng

Supported Projects

1. Toktaş A., Erkan U., TUBITAK Project, SMART PRECISION AGRICULTURAL MANAGEMENT SYSTEM CAPABLE OF PERFORMING INTERNET OF THINGS BASED SOIL ANALYSIS FOR SOIL CULTIVATION EQUIPMENT, 2025 - 2026
2. Toktaş A., Yıldızel S. A., Üstün D., Akınay Y., TUBITAK Project, Multilayer Electromagnetic Interference Shielding (MEIS) Fiber Reinforced Hybrid Composite Panel, 2022 - 2024
3. Toktaş A., Üstün D., Project Supported by Higher Education Institutions, Designin of multilayer radar absorbing material using multi-objective optimization algorithms and material measurements, 2020 - 2021
4. Toktaş A., Project Supported by Higher Education Institutions, New generation milimeter wave microstrip antenna designing and prototyping, 2018 - 2021
5. Toktaş A., Project Supported by Higher Education Institutions, Reconfigurable microstrip multiple input multiple output - MIMO antenna designing, prototyping and measuring, 2018 - 2020
6. Toktaş A., Kayabaşı A., Sabancı K., Project Supported by Higher Education Institutions, Ultra-wideband patch antenna designing, prototyping and measuring, 2017 - 2019
7. Toktaş A., Yiğit E., Sabancı K., Project Supported by Higher Education Institutions, Model Silo Üzerinde Ölçeklendirme Yöntemi İle Radar Seviye Ölçüm Sistemi Geliştirilmesi, 2017 - 2018
8. Toktaş A., Sabancı K., Kayabaşı A., Project Supported by Higher Education Institutions, Embedded system controlled weather station design and meteorological data analysis with artificial intelligence techniques, 2017 - 2018
9. Toktaş A., Project Supported by Higher Education Institutions, Reconfigurable microstrip antenna designing, and prototyping, 2015 - 2016
10. Toktaş A., Işıker H., Yiğit E., TUBITAK Project, Hastane dışında anne karnındaki bebeğin kalp atış seyrini ölçen ve kablosuz olarak ileten NST cihaz tasarımı, 2014 - 2015
11. Toktaş A., Işıker H., Yiğit E., TUBITAK Project, Tahıl silolarında radar yardımı ile üç boyutlu seviye ölçümü, 2014 - 2015
12. Toktaş A., Akdağlı A., Project Supported by Higher Education Institutions, Designing and fabricating of MIMO antenna for LTE communication systems, 2014 - 2015

Awards

1. Toktaş A., 2023 Ankara University Faculty of Engineering First Prize, Ankara Üniversitesi, January 2025

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Novel hyperchaotic system: Implementation to audio encryption**
   Zhou S., Yin Y., Erkan U., TOKTAŞ A., Zhang Y.
   Chaos, Solitons and Fractals, vol.193, 2025 (SCI-Expanded)

2. **MSLID-TCN: multi-stage linear-index dilated temporal convolutional network for temporal action segmentation**
   Gao S., Wu R., Liu S., Erkan U., TOKTAŞ A., Liu J., Tang X.
   International Journal of Machine Learning and Cybernetics, vol.16, no.1, pp.567-581, 2025 (SCI-Expanded)

3. **A Parallel Color Image Encryption Algorithm Based on a 2D Logistic-Rulkov Neuron Map**
   Gao S., Zhang Z., Ho-Ching Iu H., Ding S., Mou J., Erkan U., TOKTAŞ A., Li Q., Wang C., Cao Y.
   IEEE Internet of Things Journal, 2025 (SCI-Expanded)

4. **A 3D Memristive Cubic Map with Dual Discrete Memristors: Design, Implementation, and Application in Image Encryption**
   Gao S., Iu H. H., Erkan U., Simsek C., TOKTAŞ A., Cao Y., Wu R., Mou J., Li Q., Wang C.
   IEEE Transactions on Circuits and Systems for Video Technology, 2025 (SCI-Expanded)

5. **Multi-image encryption scheme using cross-plane coupling permutation and plain-by-plain wave diffusion**
   Lai Q., Wang H., Erkan U., TOKTAŞ A.
   Physica Scripta, vol.99, no.11, 2024 (SCI-Expanded)

6. **Complex dynamics of a new multiscroll memristive neural network**
   Chen Y., Lai Q., Zhang Y., Erkan U., TOKTAŞ A.
   Nonlinear Dynamics, vol.112, no.10, pp.8603-8616, 2024 (SCI-Expanded)

7. **2D hyperchaotic Styblinski-Tang map for image encryption and its hardware implementation**
   Ustun D., Erkan U., TOKTAŞ A., Lai Q., Yang L.
   Multimedia Tools and Applications, vol.83, no.12, pp.34759-34772, 2024 (SCI-Expanded)

8. **Securing Dual-Channel Audio Communication With a 2-D Infinite Collapse and Logistic Map**
   Wu R., Gao S., Iu H. H., Zhou S., Erkan U., TOKTAŞ A., Tang X.
   IEEE Internet of Things Journal, vol.11, no.6, pp.10214-10223, 2024 (SCI-Expanded)

9. **Index-based simultaneous permutation-diffusion in image encryption using two-dimensional price map**
   Lai Q., Zhang H., Ustun D., Erkan U., TOKTAŞ A.
   Multimedia Tools and Applications, vol.83, no.10, pp.28827-28847, 2024 (SCI-Expanded)

10. **PSO-based image encryption scheme using modular integrated logistic exponential map**
    Kocak O., ERKAN U., TOKTAŞ A., Gao S.
    EXPERT SYSTEMS WITH APPLICATIONS, vol.237, 2024 (SCI-Expanded)

11. **A robust bit-level image encryption based on Bessel map**
    TOKTAŞ A., Erkan U., Gao S., Pak C.
    APPLIED MATHEMATICS AND COMPUTATION, vol.462, 2024 (SCI-Expanded)

12. **MLMQ-IR: Multi-label multi-query image retrieval based on the variance of Hamming distance**
    Akbacak E., TOKTAŞ A., Erkan U., Gao S.
    Knowledge-Based Systems, vol.283, 2024 (SCI-Expanded)

13. **OSMRD-IE: Octal-Based Shuffling and Multi-Layer Rotational Diffusing Image Encryption Using 2D Hybrid Michalewicz-Ackley Map**
    Erkan U., TOKTAŞ A., Memis S., Toktas F., Lai Q., Wen H., Gao S.
    IEEE Internet of Things Journal, vol.11, no.21, pp.35113-35123, 2024 (SCI-Expanded)

14. **Design, Dynamical Analysis, and Hardware Implementation of a Novel Memcapacitive Hyperchaotic Logistic Map**
Gao S., Iu H. H., Erkan U., Simsek C., Mou J., TOKTAŞ A., Wu R., Tang X.
IEEE Internet of Things Journal, vol.11, no.18, pp.30368-30375, 2024 (SCI-Expanded)

15. **Multiobjective Design of 2D Hyperchaotic System Using Leader Pareto Grey Wolf Optimizer**
TOKTAŞ A., ERKAN U., Ustun D., Lai Q.
IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS, vol.54, no.9, pp.5237-5247, 2024 (SCI-Expanded)

16. **Novel n-Dimensional Non-Degenerate Discrete Hyperchaotic Map with Any Desired Lyapunov Exponents**
Zhou S., Liu H., Iu H. H., Erkan U., TOKTAŞ A.
IEEE Internet of Things Journal, 2024 (SCI-Expanded)

17. **An image encryption method based on multi-space confusion using hyperchaotic 2D Vincent map derived from optimization benchmark function**
Erkan U., TOKTAŞ A., Memiş S., Lai Q., Hu G.
Nonlinear Dynamics, vol.111, no.21, pp.20377-20405, 2023 (SCI-Expanded)

18. **Image encryption using fission diffusion process and a new hyperchaotic map**
Lai Q., Hua H., Zhao X., Erkan U., TOKTAŞ A.
Chaos, Solitons and Fractals, vol.175, 2023 (SCI-Expanded)

19. **Hyperparameter optimization of deep CNN classifier for plant species identification using artificial bee colony algorithm**
Erkan U., Toktas A., Ustun D.
JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, vol.14, no.7, pp.8827-8838, 2023 (SCI-Expanded)

20. **Parameter optimization of chaotic system using Pareto-based triple objective artificial bee colony algorithm**
TOKTAŞ A., Erkan U., Ustun D., Wang X.
Neural Computing and Applications, vol.35, no.18, pp.13207-13223, 2023 (SCI-Expanded)

21. **High-efficiency medical image encryption method based on 2D Logistic-Gaussian hyperchaotic map**
Lai Q., Hu G., Erkan U., Toktaş A.
Applied Mathematics and Computation, vol.442, 2023 (SCI-Expanded)

22. **2D hyperchaotic system based on Schaffer function for image encryption**
Erkan U., Toktaş A., Lai Q.
EXPERT SYSTEMS WITH APPLICATIONS, vol.213, pp.1-12, 2023 (SCI-Expanded)

23. **A novel pixel-split image encryption scheme based on 2D Salomon map**
Lai Q., Hu G., Erkan U., Toktaş A.
Expert Systems with Applications, vol.213, 2023 (SCI-Expanded)

24. **Design of two dimensional hyperchaotic system through optimization benchmark function**
Erkan U., Toktaş A., Lai Q.
Chaos, Solitons and Fractals, vol.167, 2023 (SCI-Expanded)

25. **Ultra-Wideband Monopole Antenna with Defected Ground for Millimeter-Wave Applications**
Toktaş A., Turkmen H. A.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.44, pp.37-51, 2023 (SCI-Expanded)

26. **ABC algorithm-based optimization and evaluation of nano carbon black added multi-layer microwave absorbing ultra weight foam concrete**
Yildizel S. A., Toktaş A.
Materials Today Communications, vol.32, 2022 (SCI-Expanded)

27. **Modified artificial bee colony algorithm with differential evolution to enhance precision and convergence performance**
Ustun D., Toktaş A., Erkan U., Akdagli A.
Expert Systems with Applications, vol.198, 2022 (SCI-Expanded)

28. **2D e pi-map for image encryption**
Erkan U., Toktaş A., Toktaş F., Alenezi F.
INFORMATION SCIENCES, vol.589, pp.770-789, 2022 (SCI-Expanded)

29. **2D fully chaotic map for image encryption constructed through a quadruple-objective optimization via artificial bee colony algorithm**
Toktas A., Erkan U.
NEURAL COMPUTING & APPLICATIONS, vol.34, no.6, pp.4295-4319, 2022 (SCI-Expanded)

30. **An optimized surrogate model using differential evolution algorithm for computing parameters of antennas**
Ustun D., Toktas F., Toktaş A.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.35, no.2, 2022 (SCI-Expanded)

31. **An image encryption scheme based on chaotic logarithmic map and key generation using deep CNN**
Erkan U., Toktaş A., Enginoğlu S., Akbacak E., Thanh D. N. H.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.81, no.5, pp.7365-7391, 2022 (SCI-Expanded)

32. **An image encryption scheme based on an optimal chaotic map derived by multi-objective optimization using ABC algorithm**
Toktaş A., Erkan U., Ustun D.
NONLINEAR DYNAMICS, vol.105, no.2, pp.1885-1909, 2021 (SCI-Expanded)

33. **A symbiotic organisms search algorithm-based design optimization of constrained multi-objective engineering design problems**
Ustun D., Carbas S., Toktaş A.
ENGINEERING COMPUTATIONS, vol.38, no.2, pp.632-658, 2021 (SCI-Expanded)

34. **Chaotic Map Optimization for Image Encryption Using Triple Objective Differential Evolution Algorithm**
Toktaş A., Erkan U., Toktas F., Yetgin Z.
IEEE ACCESS, vol.9, pp.127814-127832, 2021 (SCI-Expanded)

35. **Pioneer Pareto artificial bee colony algorithm for three-dimensional objective space optimization of composite-based layered radar absorber**
Toktaş A., Ustun D., Erdogan N.
APPLIED SOFT COMPUTING, vol.96, 2020 (SCI-Expanded)

36. **A Triple-Objective Optimization Scheme Using Butterfly-Integrated ABC Algorithm for Design of Multilayer RAM**
Toktaş A., Ustun D.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.68, no.7, pp.5602-5612, 2020 (SCI-Expanded)

37. **Global optimisation scheme based on triple-objective ABC algorithm for designing fully optimised multi-layer radar absorbing material**
Toktaş A., Ustun D., Tekbas M.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.14, no.8, pp.800-811, 2020 (SCI-Expanded)

38. **Translational Motion Compensation for ISAR Images Through a Multicriteria Decision Using Surrogate-Based Optimization**
Ustun D., Toktaş A.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.58, no.6, pp.4365-4374, 2020 (SCI-Expanded)

39. **Multi-Objective Design of Multi-Layer Radar Absorber Using Surrogate-Based Optimization**
Toktaş A., Ustun D., Tekbas M.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.67, no.8, pp.3318-3329, 2019 (SCI-Expanded)

40. **A neurocomputational model for estimating the triple-frequency of T-shaped patch antennas**
Yigit E., Kayabasi A., Toktaş A., Sabanci K.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.61, no.6, pp.1590-1597, 2019 (SCI-Expanded)

41. **A Hue-domain filtering technique for enhancing spatial sampled compressed sensing-based SAR**

images
Sabanci K., Yigit E., Toktaş A., Kayabasi A.
IET RADAR SONAR AND NAVIGATION, vol.13, no.3, pp.357-367, 2019 (SCI-Expanded)

42. **A compact reconfigurable ultra-wideband G-shaped printed antenna with band-notched characteristic**
Toktaş A., Yerlikaya M.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.61, no.1, pp.245-250, 2019 (SCI-Expanded)

43. **A study on visual features of leaves in plant identification using artificial intelligence techniques**
Yigit E., Sabanci K., Toktaş A., Kayabasi A.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.156, pp.369-377, 2019 (SCI-Expanded)

44. **Deep neural network-based soft computing the resonant frequency of E-shaped patch antennas**
Ustun D., Toktaş A., Akdagli A.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.102, pp.54-61, 2019 (SCI-Expanded)

45. **Triangular quad-port multi-polarized UWB MIMO antenna with enhanced isolation using neutralization ring**
Kayabasi A., Toktaş A., Yigit E., Sabanci K.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.85, pp.47-53, 2018 (SCI-Expanded)

46. **AUTOMATIC CLASSIFICATION OF AGRICULTURAL GRAINS: COMPARISON OF NEURAL NETWORKS**
Kayabasi A., Toktaş A., Sabanci K., Yigit E.
NEURAL NETWORK WORLD, vol.28, no.3, pp.213-224, 2018 (SCI-Expanded)

47. **CFAR based morphological filter design to remove clutter from GB-SAR images: An application to real data**
Toktaş A., Yigit E., Sabanci K., Kayabasi A.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.59, no.10, pp.2685-2692, 2017 (SCI-Expanded)

48. **Grain classifier with computer vision using adaptive neuro-fuzzy inference system**
Sabanci K., Toktaş A., Kayabasi A.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.97, no.12, pp.3994-4000, 2017 (SCI-Expanded)

49. **NOTCH ANTENNA ANALYSIS: AN EXPRESSION FOR CALCULATION OF THE OPERATING FREQUENCY**
Toktaş A., Kayabasi A., Sabanci K., Yigit E.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.59, no.6, pp.1309-1313, 2017 (SCI-Expanded)

50. **Computer vision-based method for classification of wheat grains using artificial neural network**
Sabanci K., Kayabasi A., Toktaş A.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.97, no.8, pp.2588-2593, 2017 (SCI-Expanded)

51. **Notch Antenna Analysis: Artificial Neural Network-based Operating Frequency Estimator**
Sabanci K., Kayabasi A., Toktaş A., Yigit E.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.32, no.4, pp.303-309, 2017 (SCI-Expanded)

52. **G-shaped band-notched ultra-wideband MIMO antenna system for mobile terminals**
Toktaş A.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.11, no.5, pp.718-725, 2017 (SCI-Expanded)

53. **Log-periodic dipole array-based MIMO antenna for the mobile handsets**
Toktaş A.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.30, no.3, pp.351-365, 2016 (SCI-Expanded)

54. **Design of wideband orthogonal MIMO antenna with improved correlation using a parasitic element for mobile handsets**
Akdagli A., Toktaş A.
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, vol.8, no.1, pp.109-115, 2016 (SCI-Expanded)

55. **Scalable Notch Antenna System for Multiport Applications**

Toktaş A.

INTERNATIONAL JOURNAL OF ANTENNAS AND PROPAGATION, vol.2016, 2016 (SCI-Expanded)

56. **A novel and simple expression to accurately calculate the resonant frequency of annular-ring microstrip antennas**

Toktaş A., Bicer M. B., Kayabasi A., Ustun D., Akdagli A., Kurt K.

INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, vol.7, no.6, pp.727-733, 2015 (SCI-Expanded)

57. **Compact multiple-input multiple-output antenna with low correlation for ultra-wide-band applications**

Toktaş A., Akdagli A.

IET MICROWAVES ANTENNAS & PROPAGATION, vol.9, no.8, pp.822-829, 2015 (SCI-Expanded)

58. **A POWERFUL METHOD BASED ON ARTIFICIAL BEE COLONY ALGORITHM FOR TRANSLATIONAL MOTION COMPENSATION OF ISAR IMAGE**

Ustun D., Ozdemir C., Akdagli A., Toktaş A., Bicer M. B.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.56, no.11, pp.2691-2698, 2014 (SCI-Expanded)

59. **Applications of ANN and ANFIS to Predict the Resonant Frequency of L-Shaped Compact Microstrip Antennas**

Kayabasi A., Toktaş A., Akdagli A., Bicer M. B., Ustun D.

APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.29, no.6, pp.460-469, 2014 (SCI-Expanded)

60. **Wideband MIMO antenna with enhanced isolation for LTE, WiMAX and WLAN mobile handsets**

Toktaş A., Akdagli A.

ELECTRONICS LETTERS, vol.50, no.10, pp.723-724, 2014 (SCI-Expanded)

61. **ANFIS model for determining resonant frequency of rectangular ring compact microstrip antennas**

Akdagli A., Toktaş A., Bicer M. B., Kayabasi A., Ustun D., Kurt K.

INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, vol.46, no.3, pp.483-490, 2014 (SCI-Expanded)

62. **AN APPLICATION OF ARTIFICIAL NEURAL NETWORK TO COMPUTE THE RESONANT FREQUENCY OF E-SHAPED COMPACT MICROSTRIP ANTENNAS**

Akdagli A., Toktaş A., Kayabasi A., Develi İ.

JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS, vol.64, no.5, pp.317-322, 2013 (SCI-Expanded)

63. **Calculating the dual-frequencies of equilateral triangular compact microstrip antennas with a shorting-pin**

Toktaş A., Akdagli A., Yagoub M. C. E.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.55, no.6, pp.1227-1230, 2013 (SCI-Expanded)

64. **COMPUTATION OF RESONANT FREQUENCY OF E-SHAPED COMPACT MICROSTRIP ANTENNAS**

Toktaş A., Akdagli A.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.4, pp.847-854, 2012 (SCI-Expanded)

65. **COMPUTING RESONANT FREQUENCY OF H-SHAPED COMPACT MICROSTRIP ANTENNAS OPERATING AT UHF BAND BY USING ARTIFICIAL NEURAL NETWORKS**

Kayabasi A., Bicer M. B., Akdagli A., Toktaş A.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.26, no.4, pp.833-840, 2011 (SCI-Expanded)

66. **SIMPLE FORMULAS FOR CALCULATING RESONANT FREQUENCIES OF C AND H SHAPED COMPACT MICROSTRIP ANTENNAS OBTAINED BY USING ARTIFICIAL BEE COLONY ALGORITHM**

Toktaş A., Bicer M. B., Akdagli A., Kayabasi A.

JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.25, no.11-12, pp.1718-1729, 2011 (SCI-Expanded)

67. **A NOVEL EXPRESSION IN CALCULATING RESONANT FREQUENCY OF H-SHAPED COMPACT**

MICROSTRIP ANTENNAS OBTAINED BY USING ARTIFICIAL BEE COLONY ALGORITHM
Akdagli A., Toktaş A.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.24, no.14-15, pp.2049-2061, 2010 (SCI-Expanded)

Articles Published in Other Journals

1. **Circularly Polarized Triangular Patch Antenna**
   Toktaş A.
   Recent Advances in Electrical & Electronic Engineering, vol.15, 2022 (ESCI)
2. **Küçük Boyutlu Saçak Açıklıklı ve Toprak Düzleminde Boşluk Açılmış Geniş Bant Mikroşerit Anten Tasarımı (Small Fringed Cavity and Slotted Ground Plane Broadband Microstrip Antenna Design)**
   Toktaş A.
   KMÜ MÜHENDİSLİK VE DOĞA BİLİMLERİ DERGİSİ, vol.1, no.1, pp.70-78, 2019 (Peer-Reviewed Journal)
3. **Üçgen Açıklıklı Ultra Geniş Bant Monopol Bir Antenin Tasarlanması (Designing an Ultra-Wideband Monopole Antenna with Triangular Aperture)**
   Türkmen H. A., Toktaş A.
   KMÜ MÜHENDİSLİK VE DOĞA BİLİMLERİ DERGİSİ, vol.1, no.1, pp.146-155, 2019 (Peer-Reviewed Journal)
4. **Design of Mobile Meteorological Station with Embedded System Control**
   Kayabaşı A., Yıldız B., Sabancı K., Toktaş A., Yerlikaya M.
   International Journal of Innovation Engineering and Science Research, vol.3, no.3, pp.34-40, 2019 (Peer-Reviewed Journal)
5. **Görüntü İşleme Tekniklerine Dayalı Sinirsel-Bulanık Sistem Modeli Kullanarak Buğday Danelerinin Sınıflandırılması**
   Kayabaşı A., Sabancı K., Toktaş A.
   Akıllı Sistemler ve Uygulamaları Dergisi, vol.1, no.1, pp.57-61, 2018 (Peer-Reviewed Journal)
6. **Equivalent Circuit Modelling of an L-shaped Patch Antenna by Optimizing the Lumped Elements Using Differential Evolution Algorithm**
   Toktaş A.
   International Journal of Intelligent Systems and Applications in Engineering, vol.5, no.4, pp.216-221, 2017 (Peer-Reviewed Journal)
7. **ANN-BASED CLASSIFIER TRAINED BY BAYESIAN REGULARIZATION FOR WHEAT GRAINS THROUGH COLOUR FEATURE**
   Kayabaşı A., Yıldız B., Sabancı K., Yiğit E., Toktaş A., Tekbaş M.
   International Journal of Environmental Trends, vol.1, no.1, pp.46-53, 2017 (Peer-Reviewed Journal)
8. **A Comparative Classification of Wheat Grains for Artificial Neural Network and Extreme Learning Machine**
   Sabancı K., Aslan M. F., Yiğit E., Kayabaşı A., Toktaş A., Duysak H.
   International Journal of Environmental Trends, vol.1, no.1, pp.14-21, 2017 (Peer-Reviewed Journal)
9. **Design of an ANN Model Trained by Various Learning Algorithms to Compute the Operating Frequency of E shaped Patch Antennas**
   Kayabaşı A., Toktaş A., Akdağlı A.
   Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.21, no.2, pp.465-471, 2016 (Peer-Reviewed Journal)
10. **Microstrip fed Triangular UWB Microstrip Antenna Based on DGS**
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3. **Triangular Aperture UWB Antenna with Dual Band-Notched Characteristic for WLAN Bands**
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4. **A Novel Euler Chaotic Map for Image Encryption**
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9. **C ve X-Bant Uygulamaları için Kompakt Ultra Geniş Bant Dirgen Şekilli Mikroşerit Anten Tasarımı**
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10. **Design of Quad-port Circular MIMO Antenna With Isolation Improved by Shorting Walls**
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11. **A Formulaic Model Calculating the Permittivity of Testing Materials Placed on a Circular Patch Antenna**
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13. **Thingspeak Based Monitoring IoT System for Counting People in A Library**
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16. **An UWB Antenna Design Having Band-Reject Characteristic by Y-Shaped Strip**
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17. **WiFi Based Indoor Localization: Application and Comparison of Machine Learning Algorithms**
Sabanci K., Yigit E., Ustun D., Toktaş A., Aslan M. F.
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31. **Compact Coplanar UWB Monopole Antenna with Arc shaped Tapered Apertures**
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32. **Haberleşme Sistemleri İçin Dairesel Polarizasyonlu Ultra geniş bant Yama Anten Sistemi**
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34. **Defected ground structure based ultra wideband triangular patch antenna**
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38. **Input and output matching circuits design for low noise amplifiers by using tapered microstrip lines**
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39. **CS-BASED RADAR MEASUREMENT OF SILOS LEVEL**
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41. **Alternatif genişbant kablosuz erişim tekniği WI MAX**
Toktaş A., Akdağlı A.
III. İletişim Teknolojileri Ulusal Sempozyumu, Adana, Turkey, 1 - 03 February 2007, pp.1-6

Academic and Administrative Experience

2022 - Continues	**Head of Department**	Ankara University, Mühendislik Fakültesi, Yapay Zeka ve Veri Mühendisliği Bölümü
2015 - 2018	**Head of Department**	Karamanoglu Mehmetbey University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering
2015 - 2017	**Head of Department**	Karamanoglu Mehmetbey University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering
2009 - 2015	**Network Sorumlusu**	Mersin University, Information Technologies

Courses

Doctorate
ADVANCED MICROWAVE TECHNIQUE, Doctorate, 2021 - 2022
Postgraduate
MICROSTRIP ANTENNAS, Postgraduate, 2021 - 2022
ADVANCED ENGINEERING ELECTROMAGNETICS, Postgraduate, 2021 - 2022
COMPUTER AIDED ANTENNA DESIGN, Postgraduate, 2021 - 2022
MICROWAVE ENGINEERING, Postgraduate, 2021 - 2022
OPTIMIZATION TECHNIQUES, Postgraduate, 2017 - 2018
ANTENNA THEORY, Postgraduate, 2017 - 2018
Undergraduate
Digital Logic Design, Undergraduate, 2023 - 2024
Digital Signal Processing, Undergraduate, 2023 - 2024
INTRODUCTION TO COMMUNICATION SYSTEMS, Undergraduate, 2021 - 2022
ELECTROMAGNETIC FIELDS, Undergraduate, 2021 - 2022
ELECTROMAGNETIC WAVES, Undergraduate, 2021 - 2022
ENGINEERING MATHEMATICS, Undergraduate, 2021 - 2022
ELECTRIC ENERGY TRANSMISSION AND DISTRIBUTION, Undergraduate, 2015 - 2016

Supervised Theses

Çakır G., Toktaş A., DEVELOPMENT OF INTEGRATED RECEIVER AND ANTENNA FOR PASSIVE MILLIMETER WAVE IMAGING SYSTEM, Doctorate, M.TEKBAŞ(Student), 2023

Toktaş A., Erkan U., Parçacık sürü optimizasyon algoritması ile kaotik tabanlı görüntü şifreleme, Postgraduate, Ö.KOÇAK(Student), 2021

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Toktaş A., 5G haberleşme sistemleri için geniş bant milimetre dalga mikroşerit antenin tasarlanması ve gerçekleştirilmesi, Postgraduate, H.ALPER(Student), 2021

Toktaş A., Bant çentik anahtarlamalı ultra geniş bant anten tasarımı ve prototiplenmesi, Postgraduate, M.YERLİKAYA(Student), 2017

Patent

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Scientific Project Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, August 2024
TUBITAK Project, 1002 - Quick Support Program, December 2023
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TUBITAK Project, 1002 - Quick Support Program, April 2023

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TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, December 2022

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, December 2022

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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, November 2022

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, November 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, February 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, February 2022

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TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, February 2022

Metrics

Publication: 128
Citation (WoS): 1627
Citation (Scopus): 1991
H-Index (WoS): 22
H-Index (Scopus): 25

Research Areas

Computer Sciences, algorithms, Simulation and Modelling, Information Security and Reliability, Hiding Information, Cryptography, Computer Vision, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Natural Language Processing, Human Computer Interaction, Automated Problem Solving, Theorem Proving and Logical Reasoning, Neural Networks, Software, Electrical and Electronics Engineering, Electromagnetic, Wave Propagation and Remote Sensing, Electric and Magnetic Fields, Electromagnetic Environment and Interaction, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

Non Academic Experience

State Economic Enterprise SEE, Türk Telekom, Transmission Manager, Manager
State Economic Organization SEO, TÜRK TELEKOM, Bilişim Ağları Müdürlüğü, ASISTANT TELECOM EXPERT