Prof. Sedef Kent Pınar

Personal Information

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International Researcher IDs
ORCID: 0000-0002-8396-2920
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ScopusID: 7201914657
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Education Information

Doctorate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1984 - 1990

Foreign Languages

English

Dissertations

Doctorate, Mikrodalga difraksiyon tomografisi için yeni bir görüntüleme algoritması ve diğer yöntemlerle karşılaştırılması, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 1990

Research Areas

Information Systems, Communication and Control Engineering, Signal Processing, Signal Processing Theory and Methods, Electrical and Electronics Engineering, Electromagnetic, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 1984 - Continues

Academic and Administrative Experience

Assistant Director of the Institute, Istanbul Technical University, Bilişim Enstitüsü, İletişim Sistemleri, 2013 - 2018
İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2009 - 2010

Courses

MİCROWAVE SYSTEM ENGINEERING, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2011 - 2012, 2009 - 2010
REMOTE SENSİNG SYSTEMS, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Advising Theses

Kent Pınar S., Mikrodalga Soğurucu Tasarımı, Doctorate, İ.Çatalkaya(Student), 2017
Kent Pınar S., Investigation of wind turbine effects on radar performance, Doctorate, O.KARABAYIR(Student), 2016
Kent Pınar S., Dielektrik yüklü bir mikrodalga rezonatöründe elektrik alanın ve ısı dağılımının fdtd metodu ile incelenmesi, Doctorate, O.SÜLE(Student), 2011
Kent Pınar S., Yapay açıklık radarı işaret işleme ve doppler merkez frekansının kestirimi, Postgraduate, O.KARABAYIR(Student), 2010
Kent Pınar S., İnterpolasyonsuz bilgisayarlı tomografi, Postgraduate, A.GÖNÜLLÜ(Student), 1995

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Squall line over Antalya: a case study of the events of 25 October 2014**
Özdemir E. T., Yavuz V., Deniz A., Karan H., Kartal M., Kent S.
WEATHER, vol.74, 2019 (SCI-Expanded)

II. **Broadband tapered planar monopole antenna with parasitic elements for multiple wireless operations**
Karakus C., Dogusgen (Erbas) C., Yurt S. C., Kent S.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.3, pp.789-795, 2018 (SCI-Expanded)

III. **An Optimized Microwave Absorber Geometry Based on Wedge Absorber**
Çatalkaya İ., Kent Pınar S.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.32, pp.621-627, 2017 (SCI-Expanded)

IV. **Investigation of wind farm effects on radar multiple target tracking**
Karabayir O., COSKUN A. F., YUCEDAG O. M., YUCEDAG S. M., SERIM H. A., Kent S.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.30, no.2, pp.232-250, 2016 (SCI-Expanded)

V. **Wind turbine signal modelling approach for pulse Doppler radars and applications**
Karabayir O., YUCEDAG S. M., COSKUN A. F., YUCEDAG O. M., SERIM H. A., Kent S.
IET RADAR SONAR AND NAVIGATION, vol.9, no.3, pp.276-284, 2015 (SCI-Expanded)

VI. **Performance analysis of compressive ISAR imaging for complex targets**
Karabayir O., YUCEDAG O. M., YUCEDAG S. M., Kent S.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.28, no.10, pp.1236-1245, 2014 (SCI-Expanded)

VII. **A NEW NARROW BAND FREQUENCY SELECTIVE SURFACE GEOMETRY DESIGN AT THE UNLICENSED 2.4-GHz ISM BAND**
Kartal M., PINAR S., DOKEN B., GUNGOR İ.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.55, no.12, pp.2986-2990, 2013 (SCI-Expanded)

VIII. **Dual band high gain monopole antenna for modern mobile devices**
Rezaeieh S. A., Kartal M., Kent S.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.55, no.4, pp.796-800, 2013 (SCI-Expanded)

IX. **Analysis of multiple wedges electromagnetic wave absorbers**

Çatalkaya İ., Kent S.
Progress In Electromagnetics Research M, vol.26, pp.1-9, 2012 (SCI-Expanded)

X. **Analysis of microwave cavity loaded with lossy dielectric slab by means of mode matching method and optimization of load location**
Süle O., Kent S.
Progress In Electromagnetics Research M, vol.14, pp.71-83, 2010 (SCI-Expanded)

XI. **Border feature detection and adaptation algorithm for consensual decision making**
Kasapoglu N. G., Ersoy O. K., Kent S.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.30, no.7, pp.1829-1852, 2009 (SCI-Expanded)

XII. **Genetic algorithm approach on pyramidal dielectric absorbers**
Kent S., Kartal M.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.18, no.3, pp.286-294, 2008 (SCI-Expanded)

XIII. **Adaptive Wiener-turbo system and adaptive Wiener-turbo systems with JPEG & bit plane compressions**
BUYUKATAK K., Ucan O. N., GOSE E., Osman O., Kent S.
Istanbul University - Journal of Electrical and Electronics Engineering, vol.7, no.1, pp.257-276, 2007 (SCI-Expanded)

XIV. **Dielectric absorber design for wide band-wide oblique incidence angle using genetic algorithm**
Kent S., Kartal M.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.61, no.6, pp.398-404, 2007 (SCI-Expanded)

XV. **MICROWAVE HEATING OF DIELECTRIC LOSSY OBJECTS**
Kent S., Kent E. F.
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.37, no.2, pp.63-71, 2002 (SCI-Expanded)

XVI. **Genetic approach for the determination of object parameters from X ray projections**
GÜNEL M. T., KENT PINAR S.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.6, no.6, 1998 (SSCI)

XVII. **Numerical modeling of microstrip radial stub**
GÜNEL M. T., KENT PINAR S.
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, 1997 (SCI-Expanded)

XVIII. **Dielectric permittivity estimation of cylindrical objects using genetic algorithm**
Kent S., Gunel T.
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.32, no.2, pp.109-113, 1997 (SCI-Expanded)

Articles Published in Other Journals

I. **AN ANALYTICAL APPROACH FOR MATERIAL SYNTHESISBASED ON SHIELDING EFFECTIVENESS CHARACTERISTICS**
DÖĞÜŞGEN C., KENT PINAR S.
Uludag University Journal of The Faculty of Engineering, vol.22, 2017 (Peer-Reviewed Journal)

II. **Analysis of Material Position and Size in a Waveguide Fed Resonator**
SÜLE O., KENT PINAR S.
Uludağ University Journal of The Faculty of Engineering, vol.21, pp.165, 2016 (Peer-Reviewed Journal)

III. **Dynamic Heat Analysis on a Microwave Resonator Loaded with Dielectric by Finite Difference Time Domain**
SÜLE O., KENT PINAR S.
Uludag University, Journal of the Faculty of Engineering, vol.17, pp.1-16, 2012 (Peer-Reviewed Journal)

IV. **Analysis of Multiple Wedges Electromagnetic Wave Absorbers**
Çatalkaya İ., Kent Pınar S.
Progress In Electromagnetics Research M, vol.26, pp.1-9, 2012 (Scopus)

V. **Analysis of Microwave Cavity Loaded With Lossy Dielectric Slab By Means of Mode Matching Method And Optimizatıon of Load Location**
SÜLE O., KENT PINAR S.
PIER M, pp.71-83, 2010 (Peer-Reviewed Journal)

VI. **Turbo kodlamalı resimlerin aşamalı iletimi ve resim bağlaşımlı sıkıştırılması**
Büyükatak K., KENT PINAR S., UÇAN O. N.
İTÜ/d, vol.5, pp.15-26, 2006 (Peer-Reviewed Journal)

VII. **Hücresel yapay sinir ağları ile kızılötesi görüntülerde gürültünün temizlenmesi**
Tolluoğlu A. O., KARGIN S., KENT PINAR S., UÇAN O. N.
Havacılık ve Uzay Teknolojileri Dergisi, vol.2, no.1, pp.77-86, 2005 (Peer-Reviewed Journal)

VIII. **DETERMINATION OF TARGET LOCATION FOR BISTATIC SYNTHETIC APERTURE RADAR BY GENETIC ALGORITHM**
KARTAL M., KARGIN S., KENT PINAR S.
Journal of Electrical&Electronics Engineering, vol.3, no.3, pp.713-717, 2003 (Peer-Reviewed Journal)

IX. **Real Time Computation for Bistatic SAR Imagery**
Kartal M., Kent Pınar S.
Turkish Journal of Telecommunications, no.1, pp.89-94, 2002 (Peer-Reviewed Journal)

X. **One Transmitter Two Receiver Moving Target SAR Imaging**
KENT PINAR S., PAKER S.
Journal of Electrical&Electronics, vol.1, no.1, pp.17-22, 2001 (Peer-Reviewed Journal)

XI. **Reconstruction with Computerized Microwave Diffraction Tomography by Using Circular Measurement System in the Far-Field Region**
Kent Pınar S., YAZGAN B.
MATHEMATİCAL AND COMPUTATİONAL APPLİCATİONS, no.1, pp.71-76, 1996 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Effect of dielectric constant change on absorption performance of non-linear shaped microwave absorber**
ÇATALKAYA İ., KENT PINAR S.
8TH INTERNATIONAL ADVANCED TECHNOLOGİES SYMPOSİUM, 19 - 22 October 2017

II. **A Method for Calculating Closed Form Integration of 2-D PMM Impedance Matrix**
Çatalkaya İ., Kent Pınar S.
4th International Electromagnetic Compatibility Conference (EMC Turkiye), Ankara, Turkey, 24 - 27 September 2017

III. **Effect of Dielectric Constant Change on Absorption Performance of Non-LinearShaped Microwave Absorber**
ÇATALKAYA İ., KENT PINAR S.
8. International Advanced Technologies Symposium (IATS17), 20 - 23 September 2017

IV. **Effect of Ni and Sb Substitution on the Dielectric Properties Ba(Zn1/3NB2/3)O3 Ceramics**
ŞAHİN E. İ., MERGEN A., KARTAL M., KENT PINAR S., YUMAK M., FADOUL MOHAMMED J. E.
Sustainable Materials, Science and Technology, Spain, 19 - 21 July 2017

V. **Designing Microwave Absorber Shape by Using Optimization**
ÇATALKAYA İ., KENT PINAR S.
RAST 2017, 19 - 22 June 2017

VI. **Absorption performance investigating of power function shaped absorber**
ÇATALKAYA İ., KENT PINAR S.

RAST 2017, 19 - 22 June 2017

VII. **A New Approach in Beam Steering for WLAN Applications**
YEŞİL M. A., AYDIN E., Coşğun S., KENT PINAR S., KARTAL M.
Int. Conf. on Antenna Measurements & Applications (2016 IEEE CAMA), New-York, United States Of America, 23 - 27 October 2016

VIII. **ANALYSIS OF BIOMATERIALS AS MATERIAL OF MICROWAVE ABSORBERS**
ÇATALKAYA İ., KENT PINAR S.
IV. International Bioengineering Conference, 13 - 14 October 2016

IX. **Hybrid Wavelet PCA Based Leaf Wetness Estimation Model**
AKOĞUZ A., YÜCEL M., KENT PINAR S.
The Fifth International Conference on Agro-Geoinformatics, China, 18 - 20 July 2016

X. **AUTOMATED REVERSE GEOCODING OF CITIES FOR SATELLITE IMAGES BASEDON CASCADED K NEAREST NEIGHBOR ALGORITHM A CASE STUDY OF TURKEY**
AKOĞUZ A., Sevim D., ortak M., Sacıhan G., KENT PINAR S.
XXIII ISPRS Congress, Prag, Czech Republic, 12 - 19 July 2016

XI. **COMPARISON OF OPEN SOURCE COMPRESSION ALGORITHMS ON VHR REMOTE SENSING IMAGES FOR EFFICIENT STORAGE HIERARCHY**
Akoguz A., BOZKURT S., Gozutok A. A., ALP G., Turan E. G., BOGAZ M., Kent S.
23rd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing (ISPRS), Prague, Czech Republic, 12 - 19 July 2016, vol.41, pp.3-9

XII. **Pansharpening of VHR Satellite Images with Sliding Window Fourier Approach**
Özkan G., AKOĞUZ A., KENT PINAR S.
36th EARSeL Symposium 2016, Germany, 20 - 24 June 2016

XIII. **Analysis on Open Source Compression Algorithms for Efficient Storage of Remote Sensing Images**
Akoğuz A., GOZUTOK A. A., BOZKURT S., BOGAZ M., Kent Pınar S.
36TH EARSEL SYMPOSIUM "FRONTIERS IN EARTH OBSERVATION", Bonn, Germany, 20 - 24 June 2016, pp.67-68

XIV. **Synthetic Aperture Radar (SAR) Imaging of Complex Scenes Considering Near-Field Scattering Characteristics**
KARABAYIR O., SAYNAK U., COSKUN A. F., Bail B., Biyrk M., BATI O., SERIM H. A., Kent S.
11th European Conference on Synthetic Aperture Radar (EUSAR), Hamburg, Germany, 7 - 09 June 2016, pp.436-439

XV. **Ground Moving Targets Refocusing Algorithm for Spotlight SAR Data**
Papila İ., PAKER S., KARTAL M., KENT PINAR S.
EUSAR 2016, Germany, 5 - 09 June 2016

XVI. **A New Strip Mode Synthetic Aperture Radar SAR Data Simulator**
Doğan O., KARTAL M., KENT PINAR S.
IEEE Radar Conference RADARCON 2007, Massachusetts, United States Of America, 17 - 20 April 2007, pp.271-275

XVII. **Factuality of Adaptive Wavelet Transform**
KARTAL M., KENT PINAR S., Yazgan B.
EUSAR 2006, Dresden, Germany, 16 - 18 May 2006, pp.1-4

Supported Projects

Kent Pınar S., Project Supported by Higher Education Institutions, Yakın Alan Saçılma Karakteristikleri Açısından Karmaşık Bölgelerin Sentetik Açıklıklı Radar (SAR) ile Görüntülenmesi, 2016 - 2018

Kent Pınar S., Project Supported by Higher Education Institutions, Çok Geniş Bantlı Radar Sistemleri ile Saklı İnsan Tespiti için Optimal İşaret İşleme Yöntemi, 2014 - 2018

Kent Pınar S., Project Supported by Higher Education Institutions, Yeni Bir Ham Veri Sar İşlemcisi ile Görüntü Eldesi, 2012 - 2018

Kent Pınar S., Project Supported by Higher Education Institutions, ÇOK SPEKTUMLU VE SAR GÖRÜNTÜLERİNİN KAFES

FİLTRELERİ TBA HİBRİT MODELİ İLE BİRLEŞTİRİLMESİ, 2010 - 2018
Kent Pınar S., Project Supported by Higher Education Institutions, Numerical Modeling of Microwave Heating İn Processing Of Various Materials, 2004 - 2018
Kent Pınar S., Project Supported by Higher Education Institutions, Mikrodalga Yutucu Tasarımı, 2012 - 2017
Kent Pınar S., Project Supported by Higher Education Institutions, UHUZAM METEOSAT ALTYAPI GELİŞTİRME VE METEOROLOJİK VERİ DEĞERLENDİRME, 2009 - 2012

Metrics

Publication: 136
Citation (WoS): 134
Citation (Scopus): 191
H-Index (WoS): 7
H-Index (Scopus): 7

Non Academic Experience

Istanbul Teknik Üniversitesi