

## Prof. Sedef Kent Pınar

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-8396-2920

Publons / Web Of Science ResearcherID: O-1106-2013

ScopusID: 7201914657

Yoksis Researcher ID: 2899

### 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, Biliřim Enstitüsü, İletişim Sistemleri, 2013 - 2018  
İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakóltesi, Elektronik Ve Haberleşme Mühendislięi Bölümü, 2009 - 2010

## Courses

MICROWAVE 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 Soęurucu 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 alanının 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.  
Uludağ 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.  
Uludağ 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 Pinar 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 Optimization 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 bağımlı sıkıştırılması**  
Büyüktak K., KENT PINAR S., UÇAN O. N.  
İTÜ/d, vol.5, pp.15-26, 2006 (Peer-Reviewed Journal)
- VII. **Hücreli yapay sinir ağı ile kızılötesi görüntülerde gürültünün temizlenmesi**  
Tolluoğlu A. O., KARGIN S., KENT PINAR S., UÇAN O. N.  
Havacılık ve Uzak 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 Pinar 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 Pinar S., YAZGAN B.  
MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, 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 TECHNOLOGIES SYMPOSIUM, 19 - 22 October 2017
- II. **A Method for Calculating Closed Form Integration of 2-D PMM Impedance Matrix**  
Çatalkaya İ., Kent Pinar S.  
4th International Electromagnetic Compatibility Conference (EMC Türkiye), Ankara, Turkey, 24 - 27 September 2017
- III. **Effect of Dielectric Constant Change on Absorption Performance of Non-Linear Shaped 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(Zn<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub> 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., Coşgun 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., Sacihan 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: 137

Citation (WoS): 134

Citation (Scopus): 191

H-Index (WoS): 7

H-Index (Scopus): 7

## **Non Academic Experience**

Istanbul Teknik Üniversitesi