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Research Areas

Technical Sciences, Electrical and Electronics Engineering, Electromagnetic, Electromagnetic Waves, Antennas and Propagation

Advising Theses

- KOÇ S. S. , Derivation and analysis of near field tofar field transformation algorithm for spherical scanning, Postgraduate, H.Korkmaz(Student), 2019
- KOÇ S. S. , Analysis of ring focus reflectors, Postgraduate, H.Özdemir(Student), 2019
- KOÇ S. S. , Non-Foster impedance matching for electrically small antennas, Postgraduate, O.Tevfik(Student), 2019
- KOÇ S. S. , Spherical near field antenna measurements, Postgraduate, H.Doğan(Student), 2019
- KOÇ S. S. , X band TX reject waveguide bandpass filter design for satellite communication systems, Postgraduate, İ.ÇELEBİ(Student), 2018
- KOÇ S. S. , Dynamic sea clutter simulation at low grazing angles, Postgraduate, M.ZAHİD(Student), 2018
- KOÇ S. S. , Analysis and design of active annular ring coupled circular patch antenna, Postgraduate, D.GEBEŞOĞLU(Student), 2017
- KOÇ S. S. , Analysis of near-field ultra-wideband radar imaging algorithms, Postgraduate, A.ARABACI(Student), 2017
- CANDAN Ç., KOÇ S. S. , Subspace based radar signal processing methods for array tapering and sidelobe blanking, Postgraduate, D.DİNLER(Student), 2017
- KOÇ S. S. , ALATAN L., Design of smart antenna array for interference suppression in GPS, Postgraduate, Ö.CAN(Student), 2016
- KOÇ S. S. , Phase locked dielectric resonator oscillator design and fabrication for receiver systems, Postgraduate, R.KÖKSAL(Student), 2016
- KOÇ S. S. , A Small format microbolometer imaging sensor with digital video outputs, Postgraduate, C.Yalçın(Student), 2016
- KOÇ S. S. , Design and realization of a 0.5-5 GHz cascaded feedback amplifier, Postgraduate, İ.CEM(Student), 2015
- KOÇ S. S. , Analysis and design of reactively loaded dual band microstrip antenna, Postgraduate, C.BAYRAM(Student), 2015
- KOÇ S. S. , DEMİR Ş., Analysis of frequency diverse arrays for radar and communication applications, Doctorate, Ç.ÇETİNTEPE(Student), 2015
- KOÇ S. S. , YILMAZ A. Ö. , Design of an experimental FMCW weather radar, Postgraduate, S.COŞKUN(Student), 2015
- KOÇ S. S. , Electromagnetic scattering from cluster of spheres using diagonalized vector addition theorem, Doctorate, H.İBRAHİM(Student), 2014
- KOÇ S. S. , Application of Nyström method for the solution of time domain electric field integral equation, Doctorate, G.SELÇUK(Student), 2014
- KOÇ S. S. , Broadband loaded dipole antenna design by genetic algorithm optimization, Postgraduate, B.ASAN(Student), 2014
- KOÇ S. S. , CANDAN Ç., The application of micro doppler features in target classification, Postgraduate, Ö.TOPUZ(Student), 2014

KOÇ S. S. , A survey on S-band phase shifters, Postgraduate, B.KIZILTAŞ(Student), 2013

KOÇ S. S. , ARMA model based clutter estimation and its effect on clutter suppression algorithms, Postgraduate, G.Tanriverdi(Student), 2012

KOÇ S. S. , Target glint phenomenon analysis and evaluation of glint reduction techniques, Postgraduate, S.BAHTİYAR(Student), 2012

KOÇ S. S. , Arma model based clutter estimation and its effect on clutter suppression algorithms, Postgraduate, G.TANRIVERDİ(Student), 2012

KOÇ S. S. , Construction of an experimental radar system, Postgraduate, N.KILIÇOĞLU(Student), 2010

KOÇ S. S. , DURAL ÜNVER M. G. , Comparative evaluation of SAR image formation algorithms, Postgraduate, H.İBRAHİM(Student), 2010

KOÇ S. S. , Calibration of uniform circular arrays, Postgraduate, B.Aykanat(Student), 2010

KOÇ S. S. , Antenna patterns for detecting slowly moving targets in two channel GMTI processing, Postgraduate, G.YILDIRIM(Student), 2010

KOÇ S. S. , Simulation-based comparison of some gmti techniques, Postgraduate, C.Baktır(Student), 2009

KOÇ S. S. , Radar emitter emulation for research and experimental purposes., Postgraduate, M.Bahadır(Student), 2009

KOÇ S. S. , Investigation of superdirective antenna arrays, Postgraduate, Y.BAKTIR(Student), 2009

KOÇ S. S. , Time domain scattering from single and multiple objects, Doctorate, S.Alp(Student), 2008

KOÇ S. S. , Analysis and simulation of the backscattering enhancement phenomenon from randomly distributed point scatterers, Postgraduate, K.ŞAHİN(Student), 2007

KOÇ S. S. , Modelling of X-Band electromagnetic wave propagation, Postgraduate, A.Pelgur(Student), 2007

KOÇ S. S. , Design, analysis, and implementation of circular disk - annular ring (cdar) antenna, Postgraduate, M.Sancay(Student), 2007

KOÇ S. S. , Analysis and design of a circularly polarized microstrip antenna, Postgraduate, M.Taştan(Student), 2006

KOÇ S. S. , AKIN T., A novel modeling methodology and performance improvement technique for dmtl phase shifters, Postgraduate, İ.İSTANBULLUOĞLU(Student), 2006

KOÇ S. S. , Analysis of pulse diversity in radar systems, Postgraduate, U.KEÇELİOĞLU(Student), 2006

KOÇ S. S. , Ray based finite difference method for time domain electromagnetics, Doctorate, M.Çiydem(Student), 2005

KOÇ S. S. , Radar propagation modelling using the split step parabolic equation method, Postgraduate, A.TÜRKBOYLARI(Student), 2004

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **VHF suspended plate transmitter antenna design for DVB-T and DAB-T**
Ali A., Ciydem M., ALTINTAŞ A., Koc S.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.6, pp.1536-1546, 2018 (Journal Indexed in SCI)
- II. **An Efficient Semianalytical Method for Hypersingularity Treatment Over Curved Patches**
Selcuk G., KOÇ S. S.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.65, no.5, pp.2740-2744, 2017 (Journal Indexed in SCI)
- III. **Wavefront-ray grid FDTD algorithm**
Ciydem M., Koc S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.3, pp.874-881, 2016 (Journal Indexed in SCI)
- IV. **HIGH ISOLATION DUAL-POLARIZED BROADBAND ANTENNA FOR BASE STATIONS**
Ciydem M., Koc S.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.57, no.3, pp.603-607, 2015 (Journal Indexed in SCI)
- V. **USE OF GEOMETRICAL OPTIC METHODS FOR DISADVANTAGES OF FDTD METHOD**
Ciydem M., KOÇ S. S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.29, no.1, pp.121-129, 2014 (Journal Indexed in SCI)

- VI. **Tunable dual-frequency RF MEMS rectangular slot ring antenna**
Topalli K., Erdil E., Civi O. A. , Demir Ş., Koc S., Akın T.
SENSORS AND ACTUATORS A-PHYSICAL, vol.156, pp.373-380, 2009 (Journal Indexed in SCI)
- VII. **A monolithic phased array using 3-bit distributed RF MEMS phase shifters**
Topalli K., Civi O. A. , Demir Ş., Koc S., Akın T.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.56, pp.270-277, 2008 (Journal Indexed in SCI)
- VIII. **Spherical wave expansion of the time-domain free-space Dyadic Green's function**
Azizoglu S., Koc S., Buyukdura O.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.52, no.3, pp.677-683, 2004 (Journal Indexed in SCI)
- IX. **Near field scanning in the time domain on a spherical surface A formulation using the free space Green s function**
KOÇ S. S. , Büyükdura M., AYDIN ÇİVİ H. Ö.
J. Acoust.Soc. Am, vol.110, pp.1778-1782, 2001 (Journal Indexed in SCI)
- X. **Two alternative expressions for the spherical wave expansion of the time domain scalar free-space Green's function and an application: Scattering by a soft sphere**
Buyukdura O., Koc S.
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, vol.101, no.1, pp.87-91, 1997 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Fast Multipole Method for Sparse Solution of Linear Inverse Scattering Problems**
Miran E. A. , Koc S.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.407-410
- II. **UWB 3D Near-Field Imaging with a Sparse MIMO Antenna Array for Concealed Weapon Detection**
Anadol E., Seker I., Camlica S., Topbas T. O. , Koc S., Alatan L., Oktem F., Civi O. A.
Conference on Radar Sensor Technology XXII, Florida, United States Of America, 16 - 18 April 2018, vol.10633
- III. **K Band Mikroşerit Yama Anten Dizisi Tasarımı**
Aydemir A. E. , ALATAN L., KOÇ S. S. , AYDIN ÇİVİ H. Ö.
VIII. URSI-Türkiye 2016 Bilimsel Kongresi, Ankara, Turkey, 1 - 03 September 2016
- IV. **Amplitude Tapering Scheme for Through-Element Coupled Antenna Arrays**
Miran E. A. , Koc S.
IEEE-Antennas-and-Propagation-Society International Symposium, Fajardo, Puerto Rico, 26 June - 01 July 2016, pp.1105-1106
- V. **Interference Supression in GPS Receivers using Spatial Filtering**
Erdem F., Dabak O. C. , Sonmez T., ALATAN L., KOÇ S. S.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1889-1892
- VI. **Evaluation of Hypersingular Integrals on Curvilinear Surface Elements**
Selcuk G., KOÇ S. S.
10th European Conference on Antennas and Propagation (EuCAP), Davos, Switzerland, 10 - 15 April 2016
- VII. **Interference Suppression in a GPS Receiver with 4 Element Array Design and Implementation of Beamforming Algorithms**
Dabak O. C. , Erdem F., Sonmez T., ALATAN L., KOÇ S. S.
IEEE/ION Position, Location and Navigation Symposium (PLANS), Savannakhet, Laos, 11 - 14 April 2016, pp.645-652
- VIII. **A Novel Numerical Method for Evaluation of Hypersingular Integrals in Electromagnetics**
Selcuk G., Demir O., Koc S. S.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.294-297

- IX. Doppler Capable FMCW Cloud Detection Radar**
Coskun S., Celik M., YILMAZ A. Ö. , Koc S.
Conference on Remote Sensing of Clouds and the Atmosphere XX, Toulouse, France, 23 - 24 September 2015, vol.9640
- X. Ka-Band Phased Array Antenna with Circular Rim**
Bayraktar O., Sevinc Y., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S.
IEEE International Symposium on Antennas and Propagation / USNC/URSI National North American Radio Science Meeting, Vancouver, Canada, 19 - 24 July 2015, pp.2479-2480
- XI. Polarimetric FMCW Weather Radar**
Coskun S., YILMAZ A. Ö. , KOÇ S. S. , Celik M.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.200-203
- XII. Polarimetrik FMCW Meteoroloji Radarı**
çoşkun s., YILMAZ A. Ö. , KOÇ S. S. , çelik m.
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- XIII. Solution of Volume Integral Equations with Novel Treatment to Strongly Singular Integrals**
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9th European Conference on Antennas and Propagation EuCAP, Lisbon, Portugal, 13 - 17 May 2015
- XIV. The Radar Application of Micro Doppler Features from Human Motions**
ALEMDAROGLU O. T. , CANDAN Ç., Koc S.
IEEE International Radar Conference (RadarCon), Virginia, United States Of America, 10 - 15 May 2015, pp.374-379
- XV. On Generalized Eigenvector Space For Target Detection in Reduced Dimensions**
GÜVENSEN G. M. , CANDAN Ç., Koc S., ORGUNER U.
IEEE International Radar Conference (RadarCon), Virginia, United States Of America, 10 - 15 May 2015, pp.1316-1321
- XVI. Evaluation of Hypersingular Integrals on Non-planar Surfaces**
Selcuk G., KOÇ S. S.
International Conference on Numerical Electromagnetic Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO), Pavia, Italy, 14 - 16 May 2014
- XVII. The Extraction of Micro-Doppler Features from Human Motions**
Alemdaroglu O. T. , CANDAN Ç., KOÇ S. S.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.726-729
- XVIII. Novel Nystrom Method for TDEFIE**
Selcuk G., KOÇ S. S.
8th European Conference on Antennas and Propagation (EuCAP), Hague, Netherlands, 6 - 11 April 2014, pp.1315-1319
- XIX. Mitigating the Multipath Effects of Low Angle Monopulse Tracking by Even Difference Pattern**
Hizal A., Koc S.
15th European Microwave Week - Space for Microwaves Conference Proceedings, Amsterdam, Netherlands, 28 October - 02 November 2012, pp.290-293
- XX. Beamspace Approach for Detection of the Number of Coherent Sources**
CANDAN Ç., Koc S.
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- XXI. Time Domain Scattering of Scalar Waves by Two Spheres in Free-Space**
Azizoglu S. A. , KOÇ S. S. , Buyukdura O. M.
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- XXII. Reconfigurable RF MEMS Devices and Antennas**
Kaan T., Ünlü M., İstanbulluoğlu İ., Atasoy H. İ. , Bayraktar Ö., Aydın Çivi H. Ö. , Demir Ş., Koç S. S. , Akın T.

5th International Conference on Electrical and Electronics Engineering (ELECO 2007), Bursa, Turkey, 5 - 09 December 2007

- XXIII. **Monolithically Integrated MEMS Phased Array**
Topalli K., Aydın Çivi H. Ö. , Demir Ş., Koç S. S. , Akın T.
Proceedings of 8th International Symposium on RF MEMS and RF Microsystems, MEMSWAVE, Barcelona, Spain, 26 - 29 June 2007, pp.119-122
- XXIV. **Dual-frequency reconfigurable slot dipole array with a CPW-based feed network using RF MEMS technology for X- and Ka-band applications**
Topalli K., Civi Ö. A. , Demir Ş., Koc S., Akın T.
2007 IEEE Antennas and Propagation Society International Symposium, AP-S, Honolulu, HI, United States Of America, 10 - 15 June 2007, pp.825-828
- XXV. **Investigation of on-wafer TRL calibration accuracy dependence on transitions and probe positioning**
Atasoy H., Unlu M., Topalli K., Istanbuloglu I., Temocin E., Bayraktar O., Demir Ş., Civi O., Koç S. S. , Akın T.
36th European Microwave Conference, EuMC 2006, Manchester, United Kingdom, 10 - 12 September 2006, pp.1582-1585
- XXVI. **A reconfigurable RF MEMS triple stub impedance matching network**
Unlu M., Topalli K., Atasoy H., Temocin E., Istanbuloglu I., Bayraktar O., Demir Ş., Civi O., Koç S. S. , Akın T.
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- XXVII. **RF MEMS Teknolojisi ile Tek Parça Faz Dizili Anten Yapısı**
TOPALLI K., ÜNLÜ M., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S. , AKIN T.
National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.413-415
- XXVIII. **TRL Kalibrasyonunda Uç Konumlandırması ve Geçişlerin Etkileri**
ATASOY H. İ. , ÜNLÜ M., TOPALLI K., İSTANBULLUOĞLU İ., TEMOÇİN E. U. , BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.
National URSI Symposium Turkey, Turkey, 6 - 08 September 2006, pp.426-428
- XXIX. **RF MEMS Teknolojisi ile Ayarlanabilir Empedans Uyumlama Devresi**
ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.
National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.407-409
- XXX. **RF MEMS Teknolojisi Kullanılarak Tasarlanmış Ayarlanabilir Bant Geçiren Bağlanmış Hat Süzgeç**
İSTANBULLUOĞLU İ., TOPALLI K., TEMOÇİN E. U. , ATASOY H. İ. , ÜNLÜ M., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.
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- XXXI. **RF MEMS Teknolojisi ile Kapasitif ve Metal Metal Bağlantılı Paralel Anahtar Yapıları**
ATASOY H. İ. , TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ENGİN UFUK T., ÖMER B., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.
National URSI Symposium Turkey, Turkey, 6 - 08 September 2006, pp.410-412
- XXXII. **Esdüzlemsel Dalga Klavuzundan Mikroserit Hatta Geçiş Üzerine Çalışmalar**
TEMOÇİN E. U. , TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ATASOY H. İ. , BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.
National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.448-450
- XXXIII. **RF MEMS Teknolojisi ile Yansıtıcı Dizi Anteni Tasarımı**
BAYRAKTAR Ö., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ENGİN UFUK T., ATASOY H. İ. , DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.
National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.438-440
- XXXIV. **Metal to metal and capacitive contact RF MEMS shunt switch structures**
ATASOY H. İ. , TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., TEMOÇİN E. U. , BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.
7th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), 27 - 30 June 2006, pp.154-156
- XXXV. **A Reconfigurable RF MEMS Impedance Tuner for Impedance Matching of a Two Stage Low Noise Amplifier**

ÜNLÜ M., TOPALLI K., ATASOY H. İ. , TEMOÇİN E. U. , İSTANBULLUOĞLU İ., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

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XXXVI. RF MEMS teknolojisi ile mikroserit ve esduzlemsel dalga kilavuzu hat ustunde paralel anahtar yapıları

TOPALLI K., ÜNLÜ M., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

National URSI Symposium Turkey, Turkey, 8 - 10 September 2004, pp.370-372

XXXVII. Reconfigurable Antenna Structures Using MEMS Technology

Erdil E., Onat S., Topallı K., İstanbulluoğlu İ., Ünlü M., Demir Ş., Aydın Çivi H. Ö. , Alatan L., Koç S. S. , Akın T.

6th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), Lausanne, Switzerland, 23 - 24 June 2005

XXXVIII. Siralanmis MEMS iletim hatlari icin yeni bir model

ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

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XXXIX. Design and Modeling of a Reconfigurable Triple Stub Impedance Matching Network using Distributed MEMS Transmission Lines

ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

5th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), 30 June - 02 July 2004

XL. RF MEMS Teknolojisi ile Mikrodalga Faz Kaydiricilari

SAĞKOL H., ÜNLÜ M., TOPALLI K., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S. , AKIN T.

URSI-Türkiye'2002, Turkey, 18 - 20 September 2002, pp.138-141

XLI. RF MEMS Teknolojisi ile Ayarlanabilir Empedans Uyumlama ve Güç Bölücü Devreleri

ÜNLÜ M., SAĞKOL H., TOPALLI K., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S. , AKIN T.

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XLII. Anten Uygulamalari için Yeni MEMS Anahtar Yapıları

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XLIII. RF MEMS Teknolojisi ile Faz Dizili Anten

TOPALLI K., SAĞKOL H., ÜNLÜ M., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S. , AKIN T.

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XLIV. RF MEMS adjustable impedance matching network and adjustable power divider

Ünlü M., Topallı K., Demir Ş., Aydın Çivi H. Ö. , Koç S. S. , Akın T., Sağkol H.

IEEE Antennas and Propagation Society International Symposium (IEEE Cat. No.02CH37313), Texas, United States Of America, 16 - 21 June 2002, pp.26-29

XLV. New MEMS Swich Structures for Antenna Applications

ÜNLÜ M., TOPALLI K., SAĞKOL H., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

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Citations

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