

## Prof. Ahmet Serdar TÜRK

### Personal Information

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### Education Information

Doctorate, Gebze Technical University, Institute Of Science, Elektronik Mühendisliği, Turkey 1998 - 2001

Postgraduate, Gebze Yüksek Teknoloji Enstitüsü, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Turkey 1996 - 1998

Undergraduate, Yildiz Technical University, Elektrik-Elektronik Mühendisliği, Elektronik Ve Haberleşme Mühendisliği, Turkey 1992 - 1996

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Electrical and Electronics Engineering, Electromagnetic, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

### Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği, 2012 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği, 2008 - 2012

### Academic and Administrative Experience

#### Supervised Theses

Türk A. S., Çok geniş bantlı radar ile gizlenmiş hedef tespit ve takibi için görüntüleme algoritmalarının geliştirilmesi, Postgraduate, M.ORHAN(Student), 2016

Türk A. S., DEVELOPMENT OF ANALYTICAL REGULARIZATION METHOD FOR RADIATION PROBLEMS OF THREE-DIMENSIONAL PARABOLIC REFLECTOR ANTENNAS, Doctorate, O.MERT(Student), 2014

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Human Respiration and Motion Detection Based on Deep Learning and Signal Processing Techniques to Support Search and Rescue Teams**  
Niyaz Ö., Erenoğlu M. Z., Türk A. S., Colak S. A., Erkmen B., Tokan N. T.  
APPLIED SCIENCES, vol.15, no.4, pp.2097, 2025 (SCI-Expanded)
- II. **Partially dielectric loaded planar Vivaldi array antenna for forward-looking GPR applications**  
ÇALIŞKAN A., Hoşgör Y., TÜRK A. S., KIZILAY A.  
Microwave and Optical Technology Letters, vol.66, no.1, 2024 (SCI-Expanded)
- III. **A novel near field radiation shaping technique by using data driven surrogate based optimization for nondestructive hyperthermia**  
Unal M., Mahouti P., Turk A. S.  
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.36, no.2, 2023 (SCI-Expanded)
- IV. **Data Driven Surrogate Modeling of Phase Array Antennas Using Deep Learning for Millimetric Band Applications**  
Tulum M. A., TÜRK A. S., MAHOUTI P.  
IEEE Access, vol.11, pp.114415-114423, 2023 (SCI-Expanded)
- V. **Biochar-iron composites as electromagnetic interference shielding material**  
Akgül G., Demir B., Gündoğdu A., Türk A. S., Sözer S.  
MATERIALS RESEARCH EXPRESS, vol.7, no.1, 2020 (SCI-Expanded)
- VI. **Development of 2.5D Analytical Regularization Method for reflector antenna analysis**  
Yücedağ O. M., Türk A. S.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.71, pp.168-174, 2017 (SCI-Expanded)
- VII. **High-resolution signal processing techniques for through-the-wall imaging radar systems**  
Türk A. S., Ozkan-Bakbak P., Durak-Ata L., Orhan M., Unal M.  
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, vol.8, pp.855-863, 2016 (SCI-Expanded)
- VIII. **Ultra-wide band antenna designs and numerical system modelling for forward-looking GPR**  
TÜRK A. S., Aksoy S., Keskin A. K., Senturk M. D., ÇALIŞKAN A., Ozakin M. B.  
NEAR SURFACE GEOPHYSICS, vol.13, no.3, 2015 (SCI-Expanded)
- IX. **Dielectric loaded TEM horn-fed ridged horn antenna design for ultrawideband ground-penetrating impulse radar**  
TÜRK A. S., KESKIN A. K., SENTURK M. D.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, no.5, pp.1479-1488, 2015 (SCI-Expanded)
- X. **Design of horn fed offset parabolic reflector antennas with analytical regularization method**  
Yucedag O. M., TÜRK A. S.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.28, no.12, pp.1502-1511, 2014 (SCI-Expanded)
- XI. **A Compact Vivaldi Shaped Partially Dielectric Loaded TEM Horn Antenna for UWB Communication**  
Ilarslan M., TÜRK A. S., Demirel S., Aydemir M. E., Keskin A. K.  
INTERNATIONAL JOURNAL OF ANTENNAS AND PROPAGATION, 2014 (SCI-Expanded)
- XII. **Parametric Design of Open Ended Waveguide Array Feeder with Reflector Antenna for Switchable Cosecant-Squared Pattern**  
Yücedağ O. M., TÜRK A. S.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.27, no.8, pp.668-675, 2012 (SCI-Expanded)
- XIII. **Parametric analysis of flare edge rolling throat bending and asymmetric flare effects for H-plane horn radiator**  
TÜRK A. S., Yücedağ O. M.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.66, no.4, pp.297-304, 2012 (SCI-Expanded)

- XIV. **Partially Dielectric-Loaded Ridged Horn Antenna Design for Ultrawideband Gain and Radiation Performance Enhancement**  
TÜRK A. S., Keskin A. K.  
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.11, pp.921-924, 2012 (SCI-Expanded)
- XV. **Parametric Design of Parabolic Reflector Antenna with Switchable Coscant-Squared Pattern**  
TÜRK A. S., Yurduseven O.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.26, no.6, pp.494-501, 2011 (SCI-Expanded)
- XVI. **Parametric Analysis of Multi Source Feeding Flare Rolling and Corrugating Effects for H-Plane Horn Radiator**  
TÜRK A. S., Yurduseven O.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.25, no.11, pp.990-997, 2010 (SCI-Expanded)
- XVII. **HF spectrum occupancy and antennas**  
Casimiro A., Azevedo J., Economou L., Haralambous H., Tulunay E., TULUNAY Y., Bahadirlar Y., Turk A. S., Warrington E. M.  
ANNALS OF GEOPHYSICS, vol.52, pp.339-357, 2009 (SCI-Expanded)
- XVIII. **Hyper-wide band TEM horn array design for multi band ground-penetrating impulse radar**  
TÜRK A. S., Nazlı H.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.50, no.1, pp.76-81, 2008 (SCI-Expanded)
- XIX. **Ultra-Wide Band Vivaldi Antenna Design for Multisensor Adaptive Ground Penetrating Impulse Radar**  
TÜRK A. S.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, no.48, pp.834-839, 2006 (SCI-Expanded)
- XX. **Analysis of aperture illumination and edge rolling effects for parabolic reflector antenna design**  
TÜRK A. S.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.60, no.4, pp.257-266, 2006 (SCI-Expanded)
- XXI. **Ultra-Wide Band TEM Horn Design for Ground Penetrating Impulse Radar Systems**  
TÜRK A. S.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, no.41, pp.333-336, 2004 (SCI-Expanded)
- XXII. **E-polarized scalar wave diffraction by perfectly conductive arbitrary shaped cylindrical obstacles with finite thickness**  
Karachua E., Turk A.  
INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, vol.22, no.10, pp.1531-1546, 2001 (SCI-Expanded)
- XXIII. **Radiation characteristics of wide-angle H-plane sectoral horn loaded with dielectric of multiangular shape**  
Chumachenko V., Turk A.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.88, no.1, pp.91-101, 2001 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A Low-Profile Hollow Waveguide Slot Array Antenna with Full-Corporate Feeding Network at K-Band**  
Yamaç Y. E., Çalışkan A., Türk A. S., Kızılay A.  
Advanced Electromagnetics, vol.11, no.2, pp.23-27, 2022 (ESCI)
- II. **Partial Dielectric Loaded TEM Horn and Reflector Antenna Designs for Ultrawide Band Ground Penetrating Radar Systems**  
TÜRK A. S., KESKİN A. K., İlarıslan M.

Applied Radio Electronics, vol.12, pp.99-104, 2013 (Peer-Reviewed Journal)

- III. **Subsurface and through-wall SAR imaging techniques for ground penetrating radar**  
ÜNAL M., Caliskan A., Turk A. S., Ozkan Bakbak P.  
Technology and Design in Electronic Equipment, vol.37, no.6, pp.32-36, 2013 (Peer-Reviewed Journal)
- IV. **Impacts on Subsurface and Through-Wall SAR Imaging Techniques for Ground Penetrating Radar**  
Çalışkan A., TÜRK A. S.  
Technology and Design in Electronic Equipment (TKEA), vol.37, no.6, pp.32-36, 2013 (Peer-Reviewed Journal)
- V. **Novel T/R Antenna Designs for Surface Wave HF Radar Systems with Narrow Elevation and Azimuthal Beamwidths**  
TÜRK A. S.  
Turkish Journal of Telecommunication, no.1, pp.96-100, 2002 (Peer-Reviewed Journal)

## Books

- I. **Subsurface Sensing**  
TÜRK A. S., Hocaoglu A. K., Vertiy A. A.  
Wiley, 2011
- II. **Partial Dielectric Loaded TEM-Horn Design for UWB Ground Penetrating Impulse Radar Systems**  
TÜRK A. S., Armağan Şahinkaya D. S.  
in: Ultra-Wideband, Short-Pulse Electromagnetics 7, Frank Sabath, Eric L. Mokole, Uwe Schenk, Daniel Nitsch, Editor, Springer, New York, pp.306-315, 2007
- III. **Buried Object Detection**  
TÜRK A. S., Hocaoglu A. K.  
in: Encyclopedia of RF and Microwave Engineering, Kai Chang, Editor, Wiley, New York, pp.540-559, 2005

## Papers Published in Refereed Scientific Meetings

- I. **RF Communication and RSSI Based Location Detection with Trilateration Method RF Haberleşmesi ve RSSI Tabanlı Trilaterasyon Yöntemi ile Konum Tespiti**  
Çetin A., Işikli E., TÜRK A. S.  
32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024
- II. **High Gain and Broadband Quasi Horn Antenna Array for Ku Band Mobile TV Antenna Systems and Monopulse Radiation**  
Tulum M. A., Turk A. S.  
49th European Microwave Conference, EuMC 2019, Paris, France, 1 - 03 October 2019, pp.1064-1067
- III. **Waveguide Slot-Fed Horn Antenna Array with Suppressed Sidelobes**  
Yamaç Y. E., Çalışkan A., Türk A. S., Kızılay A.  
Signal Processing Symposium, Krakow, Poland, 16 - 19 September 2019
- IV. **Review of spoofing and jamming attack on the global navigation systems band and countermeasure**  
Tugsad Seferoglu K., Serdar Turk A. S.  
9th International Conference on Recent Advances in Space Technologies, RAST 2019, İstanbul, Turkey, 11 - 14 June 2019, pp.513-520
- V. **Through the wall Target Detection/Monitoring from Compressively Sensed Signals via Structural Sparsity**  
Yamaç M., Orhan M., sankur b., TÜRK A. S., Gabbouj M.  
5th International Workshop on Compressed Sensing applied to Radar, Multimodal Sensing and Imaging (CoSeRa), Siegen, Germany, 10 September 2018, vol.1, no.1, pp.1-6
- VI. **Biochar composites as novel electromagnetic interference shielding materials**

Akgül G., Demir B., Gündoğdu A., TÜRK A. S.

International Conference on Physical Chemistry and Functional Materials (PCFM'18), Elazığ, Turkey, 19 June 2018, vol.1, no.1, pp.1-5

- VII. **24 GHz short range radar system measurements for synthetic aperture radar imaging**  
ÇALIŞKAN A., YAMAÇ Y. E., UYSAL H., TÜRK A. S., KIZILAY A., Orhan M.  
2017 IEEE Microwaves, Radar and Remote Sensing Symposium (MRRS), Kiev, Ukraine, Ukraine, 29 - 31 August 2017, pp.285-287
- VIII. **Design of displaced and circular polarized Waveguide Slot Array antenna with dielectric for K-band radar application**  
Cumurcu O., ÇALIŞKAN A., YAMAÇ Y. E., TÜRK A. S.  
18th International Radar Symposium, IRS 2017, Prague, Czech Republic, 28 - 30 June 2017
- IX. **A horn antenna array design to destroy cancerous tissues by non-destructive hyperthermia Kanserli Dokulari Tahribatsız Hipertermi ile Yok Etmek için Horn Anten Dizisi Tasarimi**  
Unal M., Türk A. S., Kızılay A.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- X. **A Horn Antenna Array Design to Destroy Cancerous Tissues by Non-Destructive Hyperthermia**  
Ünal M., TÜRK A. S., KIZILAY A.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XI. **High Resolution Signal Processing Techniques for Millimeter Wave Short Range Surveillance Radar**  
Türk A. S., Kızılay A., Orhan M., Çalışkan A.  
IRS 2016 - 17th International Radar Symposium, Krakow, Poland, 10 - 12 May 2016
- XII. **Front end design for Ka band mm Wave radar**  
Keskin A. K., Senturk M. D., Demirel S., Kızılay A., Türk A. S.  
2016 17th International Radar Symposium (IRS), Krakow, Poland, 10 - 12 May 2016, pp.1-2
- XIII. **Millimeter Wave Short Range Radar System Design**  
TÜRK A. S., Keskin A. K., UYSAL H., KIZILAY A., Demirel S.  
3rd IEEE Radar Methods and Systems Workshop (RMSW), Kyiv, Ukraine, 27 - 28 September 2016, pp.76-78
- XIV. **Front-Find Design for Ka Band mm-Wave Radar**  
Keskin A. K., Senturk M. D., Demirel S., KIZILAY A., TÜRK A. S.  
17th International Radar Symposium (IRS), Krakow, Poland, 10 - 12 May 2016
- XV. **Microstrip Frequency Selective Surface For Use In Horn Filtenna**  
Sharipov Z., GÜNEŞ F., TÜRK A. S., Belen M. A., Mahouti P., Demirel S.  
3rd IEEE Radar Methods and Systems Workshop (RMSW), Kyiv, Ukraine, 27 - 28 September 2016, pp.107-109
- XVI. **Design of Dielectric Lens Loaded Double Ridged Horn Antenna for Millimetre Wave Application**  
Demirel S., ÇALIŞKAN A., Mersin M. T., TÜRK A. S., Belen M. A., Mahouti P.  
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016
- XVII. **Analog Signal Processing for UWB Sounding**  
Ruban V., Shuba O., Pochanin G., Türk A. S., Keskin A. K., Şentürk M. D., ÇALIŞKAN A.  
Proc. Of 7th International Conference on Ultra Wideband and Ultra Short Impulse Signals, Kharkiv, Ukraine, 01 September 2014, pp.55-58
- XVIII. **Development of Signal Processing Techniques for Through-Wall Imaging Radar Systems**  
Unal M., TÜRK A. S., ÇALIŞKAN A., Orhan M., Ozdemir M.  
20th International Conference on Microwaves, Radar, and Wireless Communication (MIKON), Gdansk, Poland, 16 - 18 June 2014
- XIX. **Compact partially dielectric loaded ridged horn antenna**  
Keskin A. K., Senturk M. D., ÇALIŞKAN A., TÜRK A. S., DEMİREL S.  
30th Annual Review of Progress in Applied Computational Electromagnetics, ACES 2014, Florida, United States Of America, 23 - 27 March 2014, vol.2014-January, pp.110-113
- XX. **UWB compact TEM ridged horn antenna**  
Keskin A. K., Senturk M. D., ÇALIŞKAN A., TÜRK A. S.

30th Annual Review of Progress in Applied Computational Electromagnetics, ACES 2014, Florida, United States Of America, 23 - 27 March 2014, vol.2014-January, pp.114-118

- XXI. **Holographic subsurface imaging radar for applications in civil engineering**  
Zhuravlev A., Ivashov S., Razevig V., Vasiliev I., TÜRK A. S., KIZILAY A.  
IET International Radar Conference 2013, Xian, China, 14 - 16 April 2013, vol.2013
- XXII. **Ultra wide band TEM horn and reflector antenna designs for down and forward looking ground penetrating radars**  
TÜRK A. S., KESKİN A. K., Dagcan Senturk M., MAĞAT A., ÖZAKIN M. B., Aksoy S.  
2013 7th International Workshop on Advanced Ground Penetrating Radar, IWAGPR 2013, Nantes, France, 2 - 05 July 2013
- XXIII. **The Design and Simulation of a Compact Vivaldi Shaped Partially Dielectric Loaded (VS-PDL) TEM Horn Antenna for UWB Applications**  
TÜRK A. S.  
IEEE International Conference on Ultra-Wideband (ICUWB2013), 01 September 2013
- XXIV. **Ultra Wide Band Parabolic Reflector Antenna Design for Forward Looking Ground Penetrating Impulse Radar**  
TÜRK A. S.  
Progress In Electromagnetics Research Symposium (PIERS 2013), 01 August 2013
- XXV. **Ultra Wide Band TEM Horn and Reflector Antenna Designs for Down and Forward Looking Ground Penetrating Radars**  
TÜRK A. S.  
7th International Workshop on Advanced Ground Penetrating Radar (IWAGPR), 01 July 2013
- XXVI. **Cross Section Optimization of Offset Parabolic Reflector Antenna for Coscant Squared Radiation Pattern**  
TÜRK A. S.  
Radar Signal Processing Symposium (SPS 2013), 01 June 2013
- XXVII. **Impacts on Signal Processing Techniques for Ground Penetrating Radar**  
TÜRK A. S.  
Radar Signal Processing Symposium (SPS 2013), 01 June 2013
- XXVIII. **AMISS - Active and passive Microwaves for Security and Subsurface Imaging**  
TÜRK A. S.  
Proceedings of European Geophysical Union (EGU) General Assembly 2013, 01 April 2013
- XXIX. **An Algorithm for Detection of Hidden Objects by Passive/Active Radiometer**  
Ivashov S. I., Bugaev A., TÜRK A. S.  
IET (Institution of Engineering and Technology), 01 April 2013, vol.1, pp.1-5
- XXX. **Parametric Design of 2D Reflector Antenna Structures with Analytical Regularization Method**  
TÜRK A. S.  
29th Progress in Applied Electromagnetics (ACES 2013), 01 March 2013
- XXXI. **Parametric Design of 2D Cassegrain Reflector Antenna Structures with Analytical Regularization Method**  
TÜRK A. S.  
29th Progress in Applied Electromagnetics (ACES 2013), 01 March 2013
- XXXII. **Impacts on signal processing techniques for ground penetrating radar**  
ÜNAL M., ÇALIŞKAN A., TÜRK A. S.  
2013 Signal Processing Symposium, SPS 2013, Serock, Poland, 5 - 07 June 2013
- XXXIII. **Active and Passive Microwaves for Security and Subsurface Imaging (AMISS)**  
TÜRK A. S.  
PEOPLE 2012 Marie Curie Actions In Horizon 2020, 01 November 2012, vol.1, pp.56-65
- XXXIV. **Practical Design Considerations for Tri-Band Microstrip Patch Antennas**  
TÜRK A. S.  
International Symposium on Antennas and Propagation (ISAP 2012), 01 October 2012

- XXXV. **Ultra Wide Band TEM Horn Antenna Designs for Ground Penetrating Impulse Radar**  
TÜRK A. S.  
IEEE International Conference on Ultrawide Band (ICUWB 2012), 01 September 2012
- XXXVI. **Parametric Analysis of Open-ended Waveguide Array Feeder for Cosecant-Squared And Pencil Beam Pattern**  
TÜRK A. S.  
5th Microwave and Radar Week (MIKON 2012), 01 May 2012
- XXXVII. **Parametric Analysis of Open-ended Waveguide Array Feeder for Pattern Shaping of Parabolic Reflector Antenna**  
TÜRK A. S.  
Microwaves, Radar and Remote Sensing Symposium (MRRS 2011), 01 August 2011
- XXXVIII. **Vivaldi Shaped TEM Horn Fed Ridged Horn Antenna Design for UWB GPR Systems**  
TÜRK A. S.  
6th International Workshop on Advanced Ground Penetrating Radar (IWAGPR 2011), 01 June 2011
- XXXIX. **Analysis of Flare Rolling and Corrugating Effects for H-plane Horn Radiator**  
TÜRK A. S.  
5th European Conference on Antennas and Propagation, 01 April 2011
- XL. **Muhtelif Cisimlerin Radar Kesit Alanı Analizleri ve RKA Optimizasyonu**  
TÜRK A. S.  
ELECO Ulusal Kongresi, 01 December 2010
- XLI. **Mikrodalga Radar Sistemleri için Kosekant-kare Işıma Desenli Dışbükey Parabolik Yansıtıcı Anten Tasarımı**  
TÜRK A. S.  
ELECO Ulusal Kongresi, 01 December 2010
- XLII. **TEM Horn Fed Parabolic Reflector Antenna Design for Hyperwide Band Impulse Radar Systems**  
TÜRK A. S.  
4th World Aviation Congress, Radar Methods and Systems Workshop (RMSW), 01 September 2010
- XLIII. **Cosecant-squared Parabolic Reflector Antenna Design for Air and Coastal Surveillance Radars**  
TÜRK A. S.  
4th World Aviation Congress, Radar Methods and Systems Workshop (RMSW), 01 September 2010
- XLIV. **Hava Gözetleme Radarları için Kosekant-kare Işıma Desenli Parabolik Yansıtıcı Anten Tasarımı**  
TÜRK A. S.  
URSI 5. Ulusal Kongresi, 01 August 2010
- XLV. **Parametric Analysis of H-plane Horn Antenna Radiation**  
TÜRK A. S.  
7th International Symposium on Physics and Engineering of Microwaves and Millimeter Waves (MSMW), 01 June 2010
- XLVI. **Ultra-Wide Band TEM Horn Antenna Designs for Impulse GPR Systems**  
TÜRK A. S.  
5th International Workshop on Advanced Ground Penetrating Radar (IWAGPR), 01 May 2009
- XLVII. **Investigation of Convenient Antenna Designs for Ultra-Wide Band GPR Systems**  
TÜRK A. S.  
4th International Workshop on Advanced Ground Penetrating Radar (IWAGPR), 01 June 2007
- XLVIII. **Recent COST 296 Propagation Related Measurements During the 29th March 2006 Solar Eclipse in Antalya, Turkey**  
TÜRK A. S.  
2nd COST 296 Workshop and 5th MC Meeting Radio Systems and Ionospheric Effects, 01 January 2006
- XLIX. **Ultra-Wide Band Antenna Designs for Multi-sensor Adaptative Ground-Penetrating Impulse Radar**  
TÜRK A. S.  
6th Mediterranean Microwave Symposium (MMS), 01 January 2006
- L. **Propagation Related Measurements during Three Solar Eclipses in Turkey**

- TÜRK A. S.  
IET 10th International Conference on Ionospheric Radio Systems & Techniques (IRST), 01 January 2006
- LI. **UWB Performance Analysis Of PDTEM Horn Antenna Designed For Multi-sensor Adaptive Hand-held GPR**  
TÜRK A. S.  
11th Int. Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), 01 January 2005
- LII. **A Portable Wireless RF Sensor Prototype**  
TÜRK A. S.  
2nd IEEE International Conference on Sensor and Ad Hoc Communications and Networks (SECON), 01 January 2005
- LIII. **Yere Nüfuz Eden Darbe Radarı için Geniş Bantlı Anten Tasarımları**  
TÜRK A. S.  
URSI 2. Ulusal Kongresi, 01 September 2004
- LIV. **Dielektrik Cisimlerin Tespiti için Geniş Frekans Bantlı Yere Nüfuz Eden Radar Tasarımı**  
TÜRK A. S.  
URSI 2. Ulusal Kongresi, 01 September 2004
- LV. **Parabolik Yansıtıcı Antenler için Açıklık Aydınlatma ve Kenar Yuvarlatma Etkilerinin Analizi**  
TÜRK A. S.  
URSI 2. Ulusal Kongresi, 01 September 2004
- LVI. **Arama Kurtarma Çalışmaları için Geliştirilmiş bir Gezer RF Algılayıcı Sistemi**  
TÜRK A. S.  
URSI 2. Ulusal Kongresi, 01 September 2004
- LVII. **Bölge Ürün Tekniği ile Kısmi Dielektrik Yüklü Horn Anten Analizi**  
TÜRK A. S.  
URSI 2. Ulusal Kongresi, 01 September 2004
- LVIII. **Partial Dielectric Loaded TEM Horn Design for Ultra-Wideband Ground Penetrating Impulse Radar Systems**  
TÜRK A. S.  
7th Ultra-Wideband Short-Pulse Electromagnetics Conference (EUROEM), 01 July 2004
- LIX. **UWB GPR for Detection and Identification of Buried Small Objects**  
TÜRK A. S.  
Int. Society for Optical Engineering (SPIE) Defense and Security Symposium, 01 January 2004
- LX. **An Innovative GPR System Design: Detection of Cylindrical Dielectric Objects**  
TÜRK A. S.  
10th Int. Conference on Ground Penetrating Radar (GPR), 01 January 2004
- LXI. **Ultra Wide Band Antenna Designs for Ground Penetrating Impulse Radar Systems**  
TÜRK A. S.  
IEEE Int. Symposium on Electromagnetic Compatibility, 01 May 2003
- LXII. **EMI and Atmospheric Noise Measurements for Determining HF Bandwidth Occupancy Profile of East-Mediterranean Sea**  
TÜRK A. S.  
IEEE Int. Symposium on Electromagnetic Compatibility, 01 May 2003
- LXIII. **Yüzey Dalgalı HF Radar Anten Sistemleri için Yüzeye Kuplaj Verimini Arttırıcı Topraklama Ağı Tasarımları**  
TÜRK A. S.  
Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu (ELECO), 01 December 2002
- LXIV. **Yüzey Dalgalı HF Radar Sistemleri için Dar Düşey ve Yatay Huzmeli Dizi Anten Tasarımları**  
Türk A. S., Polat A. B.  
URSI-TURKIYE'2002, İstanbul, Turkey, 18 - 20 September 2002, pp.84-87
- LXV. **TE-Mode Radiation from a Flanged Parallel-Plate Waveguide with Dielectric Plug Shaped Like a Wedge**

- TÜRK A. S.  
Int. Symposium on Physics and Engineering of Millimeter and Sub-Millimeter Waves (MSMW), 01 January 2001
- LXVI. **Domain-Product-Technique Analysis of a Dielectric-Loaded H-plane Radiator**  
TÜRK A. S.  
Int. Conference on Mathematical Methods in Electromagnetic Theory (MMET), 01 September 2000
- LXVII. **Characterization of the Waveguide Step Discontinuity Devices Based upon the Wiener-Hopf Technique**  
TÜRK A. S.  
Progress in Electromagnetic Research Symposium (PIERS), 01 July 2000
- LXVIII. **Geniş Bantlı Düzlemsel Anten Tasarımı**  
TÜRK A. S.  
EMO 8. Ulusal Kongresi, 01 September 1999
- LXIX. **Determination of the S-parameters for the Waveguide Step Discontinuities Based upon Wiener-Hopf Analysis**  
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- LXX. **Analytical Regularization Method for E-Polarized Electromagnetic Wave Diffraction by Arbitrary Shaped Cylindrical Obstacles**  
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## Supported Projects

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- Türker Tokan N., Kızılay A., Çalışkan A., Erkmen B., Türk A. S., Mahouti P., Yüzer N., TUBITAK Project, Deprem Sonrası Göçük Altı Canlı Tespiti İçin Yapay Zeka Tabanlı Frekans-Adımlı Multistatik Geniş Bantlı Radar Yaklaşımı, 2022 - 2024
- Kızılay A., Türk A. S., Mahouti P., Güneş F., Çalışkan A., Yılmaz A. R., TÜBİTAK International Bilateral Joint Cooperation Program Project, Study and Development of Target Imaging and Recognition Technologies for Contact and Forward-looking GPR Systems, 2020 - 2024
- Mahouti P., Güneş F., Türk A. S., Kızılay A., TÜBİTAK International Bilateral Joint Cooperation Program Project, Proje No: 119N196, Proje Başlığı İleri Bakan ve Temaslı GRP Sistemlerine Yönelik Hedef Görüntüleme ve Teşhis Teknolojilerinin Geliştirilmesi, 2020 - 2023
- TÜRK A. S., Project Supported by Other Official Institutions, Çoklu Algılayıcı Tümlleştirme Kavram Gösterim Ar-Ge Projesi, 2016 - 2018
- Türk A. S., Daşbaşı R., Şengiz M., TUBITAK Project, HAREKETLİ ORTAMLAR İÇİN ARAÇ ÜSTÜ KA BAND İKİ YÖNLÜ UYDU HABERLEŞME ANTEN SİSTEMİ, 2015 - 2017
- Kızılay A., Türk A. S., Sedef H., TÜBİTAK International Bilateral Joint Cooperation Program Project, Millimeter Wave Short Range Active and Passive Sensors for Intelligent Alarm Systems, 2015 - 2017
- TÜRK A. S., TUBITAK Project, Göçük Altı Canlı Hedef Tespit Radarı Geliştirilmesi, 2014 - 2016
- TÜRK A. S., Project Supported by Higher Education Institutions, Üç Boyutlu Parabolik Yansıtıcı Anten Işıma Problemleri İçin Analitik Regülerizasyon Tekniğinin Geliştirilmesi, 2012 - 2014
- Kızılay A., Türk A. S., TÜBİTAK International Bilateral Joint Cooperation Program Project, Passive and Active Radar Methods for Imaging of Buried and Concealed Objects, 2012 - 2014
- Türk A. S., Çalışkan A., FP7 Project, Active and Passive Microwave and Millimeter Wave Systems for Security and Subsurface Imaging (AMISS), 2011 - 2014
- Türk A. S., TUBITAK Project, Araca Monteli İleri Bakan Yere Nüfuz Eden Radar YNR için Çok Geniş Bantlı Anten Sistemleri Tasarımı ve Uygulaması, 2011 - 2013
- TÜRK A. S., EU Supported Other Project, Transport Infrastructure Technologies and Management (TITAM), 2008 - 2008
- Bahadrlar Y., Türk A. S., TUBITAK Project, Uzun Ufuk HF Radar Kavram Gösterim Projesi, 2006 - 2007

Şenyürek L., Türk A. S., Project Supported by Other Official Institutions, Arama Kurtarma İm Sistemi (AKİS), 2005 - 2007  
Türk A. S., Sezgin M., TÜBİTAK Project, Modern Mayın Tespit Sistemleri (MMTS), 2003 - 2007  
Bahadırlar Y., Türk A. S., Project Supported by Other Official Institutions, Uzun Ufuk Araştırma Destek Projesi (UUADP), 2001 - 2004  
Birecik S., Türk A. S., Project Supported by Other Official Institutions, Gümrük Denetim Sistemleri (GÜMSİS) Projesi, 2003 - 2003  
Türk A. S., Akgün S., Project Supported by Other Official Institutions, Mayın Tespit Projesi (MTS), 1998 - 2000

## **Metrics**

Publication: 102

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## **Non Academic Experience**

Other Public Institution, Tübitak, Bte

TÜBİTAK MAM Bilişim Teknolojileri Enstitüsü, Uzman Araştırmacı