

## Lect. PhD Ramazan DAŞBAŞI

### Personal Information

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### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Elektronik Ve Haberleşme Mühendisliği / Haberleşme, Turkey 2016 - 2021

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği / Elektronik Harp, Turkey 2014 - 2017

Undergraduate, Bogazici University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği, Turkey 2007 - 2013

### Dissertations

Doctorate, Canonical Scattering Problems in Hertzian Electrodynamics, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2021

### Research Areas

Electrical and Electronics Engineering, Electronic, Microwave Circuits, Electromagnetic, Electromagnetic Waves, Antennas and Propagation, Passive Microwave Circuits, Engineering and Technology

### Academic Titles / Tasks

Lecturer PhD, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2021 - Continues

Lecturer, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2018 - 2021

Expert, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2018 - 2018

### Designed Lessons

Polat A. B. , Daşbaşı R., Electrodynamics of Moving Bodies, Doctorate, 2020 - 2021

Polat A. B. , Daşbaşı R., Singularities in the Electromagnetic Field, Doctorate, 2017 - 2018

Polat A. B. , Daşbaşı R., Electromagnetic Scattering Theory, Doctorate, 2017 - 2018

### Research Infrastructure Information

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

- I. **A Distributional Investigation of Hertz-Heaviside Field Equations**  
POLAT A. B. , DAŞBAŞI R.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.70, no.6, pp.4613-4622, 2022 (Journal Indexed in SCI)
- II. **An analytical approach to rotor blade modulation**  
DAŞBAŞI R., POLAT A. B.  
WAVE MOTION, vol.105, 2021 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **An Evaluation of Radiation Performances of Various Aperture and Horn Antennas over Sea Surface**  
Mohammed Musa D. S. , Daşbaşı R., Polat A. B.  
The European Journal of Research and Development, vol.2, no.2, pp.429-444, 2022 (Refereed Journals of Other Institutions)
- II. **Physical Optics Scattering by A PEC Missile in Uniform Rectilinear Motion**  
Noor A., Daşbaşı R., Polat A. B.  
The European Journal of Research and Development, vol.2, no.2, pp.421-428, 2022 (Refereed Journals of Other Institutions)
- III. **Plane Wave Scattering by a PEC Half-Plane in Uniform Rectilinear Motion**  
Daşbaşı R., Polat B.  
Progress In Electromagnetics Research B, vol.89, pp.111-132, 2020 (Refereed Journals of Other Institutions)
- IV. **Physical Optics Scattering by a PEC Plate Located Vertically over a Dielectric Half-space**  
Polat B., Daşbaşı R.  
Progress In Electromagnetics Research B, vol.88, pp.151-173, 2020 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Physical Optics Scattering by A PEC Missile in Uniform Rectilinear Motion**  
Noor A., Daşbaşı R., Polat A. B.  
Physical Optics Scattering by A PEC Missile in Uniform Rectilinear Motion, Kayseri, Turkey, 26 - 27 May 2022, vol.2, no.2, pp.309
- II. **An Evaluation of Radiation Performances of Various Aperture and Horn Antennas over Sea Surface**  
Mohammed Musa D. S. , Daşbaşı R., Polat A. B.  
ESCICONF 2022 - International Conference On Emerging Sources In Science, Kayseri, Turkey, 26 - 27 May 2022, vol.2, no.2, pp.310
- III. **Radiation Fields of Corrugated Horn Antenna over Lossy Dielectric Half-Space**  
Mohammed Musa D. S. , Daşbaşı R., Polat A. B.  
5th International 19 May Innovative Scientific Approaches Congress, Samsun, Turkey, 19 May 2021, pp.198-210
- IV. **Free Space Doppler Analysis and RCS of a Moving PEC Plate under Physical Optics Approximation**  
POLAT A. B. , DAŞBAŞI R.  
8th International Conference on Electrical and Electronics Engineering, ICEEE 2021, Antalya, Turkey, 9 - 11 April 2021, pp.27-31
- V. **Perfect Conductor Bodies of Revolution in Hertzian Electrodynamics**  
POLAT A. B. , DAŞBAŞI R.

8th International Conference on Electrical and Electronics Engineering, ICEEE 2021, Antalya, Turkey, 9 - 11 April 2021, pp.215-219

- VI. **Analysis of Conical Horn Antenna Radiation over Ground by Directional Currents Method**  
POLAT A. B. , DAŞBAŞI R.  
20th International Conference on Microwave Techniques (COMITE) Part of MAREW Conference, ELECTRONETWORK, 19 - 21 April 2021, pp.139-144
- VII. **Doppler Analysis of Dipole Antennas in Arbitrary Motion**  
POLAT A. B. , DAŞBAŞI R.  
20th International Conference on Microwave Techniques (COMITE) Part of MAREW Conference, ELECTRONETWORK, 19 - 21 April 2021, pp.161-166
- VIII. **Stationary Phase Evaluation of Surface Wave Scattering by a Vertical PEC Plate**  
POLAT A. B. , DAŞBAŞI R.  
20th International Conference on Microwave Techniques (COMITE) Part of MAREW Conference, ELECTRONETWORK, 19 - 21 April 2021, pp.182-186
- IX. **Hertzian Formulation of Scattering by Moving PEC Bodies**  
POLAT A. B. , DAŞBAŞI R.  
2020 IEEE Ukrainian Microwave Week, UkrMW 2020, Virtual, Kharkiv, Ukraine, 21 - 25 September 2020, pp.486-493
- X. **Hertzian Dipoles Supporting Directional Currents**  
POLAT A. B. , DAŞBAŞI R.  
2020 IEEE Ukrainian Microwave Week, UkrMW 2020, Virtual, Kharkiv, Ukraine, 21 - 25 September 2020, pp.494-500
- XI. **Plane Wave Reflection by a PEC Plane in Harmonic Motion**  
Polat B., DAŞBAŞI R.  
2nd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2020, İstanbul, Turkey, 12 - 13 June 2020
- XII. **On Conservation of Electromotive Force in Hertzian Electrodynamics**  
Polat B., DAŞBAŞI R.  
2nd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2020, İstanbul, Turkey, 12 - 13 June 2020
- XIII. **Validation of Hertzian Electromagnetism in a Rectangular Waveguide with Rotating PEC Termination**  
Polat B., DAŞBAŞI R.  
Photonics and Electromagnetics Research Symposium - Spring (PIERS-Spring), Rome, Italy, 17 - 20 June 2019, pp.2850-2856
- XIV. **360 degrees Variable Microwave Phase Shifter Design for Clutter Cancellation Circuitry of Life Detecting Radar**  
Takkiri N., Oncu A., Dasbasi R.  
20th International Conference on Microwaves, Radar, and Wireless Communication (MIKON), Gdansk, Poland, 16 - 18 June 2014

## Supported Projects

Polat A. B. , Daşbaşı R., Project Supported by Higher Education Institutions, Radar Cross Section Analysis and Measurement of Canonical Targets over Sea Water, 2021 - 2022

Özdil H., Daşbaşı R., TUBITAK Project, Çeşitli Yazılım Geliştirme Ortamları ve Sensör Birimlerini Destekleyen Eğitim Kurumları Odaklı Geliştirme Kartlarının Özgün Tasarımı ve Geliştirilmesi, 2020 - 2021

Polat A. B. , Daşbaşı R., Project Supported by Higher Education Institutions, Hertz Elektrodinamiğinde Kanonik Saçılma Problemleri, 2019 - 2021

Polat A. B. , Daşbaşı R., Project Supported by Higher Education Institutions, Kendi Ekseni Etrafında Dönme Hareketi Yapan Dönel Simetrik Cisimlerin Hertz Elektrodinamiği, 2019 - 2020

Türk A. S. , Daşbaşı R., Şengiz M., TUBITAK Project, HAREKETLİ ORTAMLAR İÇİN ARAÇ ÜSTÜ KA BAND İKİ YÖNLÜ UYDU HABERLEŞME ANTEN SİSTEMİ, 2015 - 2017

Daşbaşı R., Öncü A., TUBITAK Project, Karmaşık Sinyalleri Algılayabilen Cankurtarma Radarı RF Alıcı Devre Tasarımı , 2013 - 2014

## **Contractual Researches**

Polat A. B. , Daşbaşı R., TÜBİTAK Informatics and Information Security Research Center, Analytical, Asymptotic and Computational Approaches to Investigation of Rotor Blade Modulation, 2020 - 2020

## **Citations**

Total Citations (WOS):10

h-index (WOS):2

## **Scholarships**

2211-A Genel Yurt İçi Doktora Burs Programı, TUBITAK, 2017 - 2020

## **Non Academic Experience**

Company, NETA Elektronik Cihazlar Sanayi ve Ticaret A.Ş., Ar-Ge

Company, Miltek Milmetrik Teknolojiler Ar-Ge San. ve Tic. Ltd. Şti, Ar-Ge