

# Prof. FATİH ÜSTÜNER

## Personal Information

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## International Researcher IDs

ORCID: 0000-0001-9968-5123

Publons / Web Of Science ResearcherID: AAJ-9587-2020

ScopusID: 17436158700

Yoksis Researcher ID: 217666

## Education Information

Doctorate, Sakarya University, Fen Bilimleri Enstitüsü, Elektrik, Elektronik Mühendisliği (Dr), Turkey 1998 - 2002

Postgraduate, Middle East Technical University, Fen Bilimleri Enstitüsü, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), Turkey 1991 - 1994

Undergraduate, Middle East Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1986 - 1991

## Dissertations

Doctorate, IRCM teçhizatının helikopterdeki EMI etkisinin sayısal ve deneysel analizi, Sakarya University, Fen Bilimleri Enstitüsü, Elektrik, Elektronik Mühendisliği (Dr), 2002

Postgraduate, Design of front-end Ina, T/R switch and power amfilier of dect wireless communication systems, Middle East Technical University, Fen Bilimleri Enstitüsü, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), 1994

## Research Areas

Computer Sciences, Physics, Astronomy and Astrophysics, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Professor, Istanbul Commerce University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2022 - Continues

Associate Professor, Istanbul Commerce University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2021 - 2022

## Academic and Administrative Experience

Head of Department, Istanbul Commerce University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2022 - Continues

## Courses

SYSTEM ENGINEERING AND PROJECT MANAGEMENT, Undergraduate, 2023 - 2024  
ELECTROMAGNETIC FIELD THEORY, Undergraduate, 2023 - 2024  
GRADUATION PROJECT, Undergraduate, 2023 - 2024  
ANTENNA DESIGN, Undergraduate, 2023 - 2024  
MICROWAVE TECHNIQUES, Undergraduate, 2023 - 2024  
ELEKTROMANYETİK UYUMLULUK VE İŞARET BÜTÜNLÜĞÜ, Postgraduate, 2023 - 2024  
DESIGN PROJECT, Undergraduate, 2023 - 2024  
ELECTROMAGNETIC WAVE THEORY, Undergraduate, 2023 - 2024  
EEE453 MICROWAVE TECHNIQUES, Undergraduate, 2022 - 2023  
ETE507 MİKRODALGA MÜHENDİSLİĞİ, Postgraduate, 2022 - 2023, 2021 - 2022  
ETE542 OPTOELEKTRONİK, Postgraduate, 2022 - 2023  
ETE506 İLERİ ANTEN TEORİSİ, Postgraduate, 2022 - 2023  
EEE434 ANTENNA DESIGN, Undergraduate, 2022 - 2023, 2021 - 2022  
ENG401 DESIGN PROJECT, Undergraduate, 2022 - 2023, 2021 - 2022  
ENG402 GRADUATION PROJECT, Undergraduate, 2022 - 2023, 2021 - 2022  
EEE210 ELECTRONIC CIRCUITS 1, Undergraduate, 2022 - 2023  
EEE313 ELECTROMAGNETIC WAVE THEORY, Undergraduate, 2022 - 2023, 2021 - 2022  
EEE212 ELECTROMAGNETIC FIELD THEORY, Undergraduate, 2022 - 2023, 2021 - 2022  
EEE453 MİKRODALGA TEKNİKLERİ, Undergraduate, 2021 - 2022  
EEE313 ELECTROMAGNETIC WAVE THEORY, Undergraduate, 2020 - 2021  
EEE434 ANTENNA DESIGN, Undergraduate, 2020 - 2021

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

- I. **EMI Reducing Interdigital Slot on Reference Planes of the PCBs**  
Sis S. A., ÜSTÜNER F., Demirel E.  
IEEE Transactions on Electromagnetic Compatibility, vol.64, no.1, pp.219-229, 2022 (SCI-Expanded)
- II. **Stacked conical ring dielectric resonator antenna excited by a monopole for improved ultrawide bandwidth**  
Ozzaim C., ÜSTÜNER F., Tarim N.  
IEEE Transactions on Antennas and Propagation, vol.61, no.3, pp.1435-1438, 2013 (SCI-Expanded)
- III. **Experimental and numerical analysis of the coupling mechanism of HF antenna located on shipboard**  
TÜRETKEN B., ÜSTÜNER F., Demirel E., Baran E.  
International Journal of Applied Electromagnetics and Mechanics, vol.27, no.1-2, pp.153-159, 2008 (SCI-Expanded)
- IV. **Numerical and experimental study of F-4 aircraft antenna patterns**  
Turetken B., ÜSTÜNER F., Dagdeviren A.  
International Journal of Electronics, vol.94, no.3, pp.293-301, 2007 (SCI-Expanded)
- V. **Genetic approach to the minimization of the coupling between aircraft antennas**  
Aydemir M. E., Günel M. T., ÜSTÜNER F.  
AEU - International Journal of Electronics and Communications, vol.60, no.4, pp.299-305, 2006 (SCI-Expanded)
- VI. **Mutual coupling between monopoles on F-4 aircraft at transition frequencies: A comparison between MoM and MoM/UTD hybrid method at UHF band**  
Dagdeviren A., Cerezci O., Ustuner F., Turetken B.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.21, no.2, pp.111-114, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **REVISITING MODE CONVERSION BETWEEN TRANSMISSION LINES FOR WIDE-BAND MODELING OF DEFECTED GROUND STRUCTURES**  
SİS S. A., ÜSTÜNER F.  
İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, 2023 (Peer-Reviewed Journal)
- II. **Baskı Devrelerde Dönüş Yolu Üzerindeki Süreksizliklerden Kaynaklanan Elektromanyetik Girişimin Nümerik Analizi ve Deneysel Doğrulanması**  
SİS S. A., Demirel E., MERSİN M. T., ÜSTÜNER F.  
EMO Bilimsel Dergi, vol.10, pp.15-21, 2020 (Peer-Reviewed Journal)
- III. **Practical papers, articles and application notes: Interaction of an AM broadcast transmitter with a large crane posing health hazards: A real-world event analysis**  
ÜSTÜNER F.  
IEEE Electromagnetic Compatibility Magazine, vol.1, 2012 (Scopus)
- IV. **Hava Aracı Kablolarında Çapraz Karışma Ölçümleri ve Kablo Ayırım Kuralları**  
ÜSTÜNER F., TARIM N., ÜNAL G.  
Havacılık ve Uzay Teknolojileri Dergisi, 2009 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental Comparison of Integrated Circuit Mach-Zehnder Interferometers for Different Types of Output Combiners**  
ÜSTÜNER F., ÖLÇER İ.  
2023 14th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November 2023
- II. **Performance Assessment of Different Cable Shield Terminations under Electromagnetic Field Coupling**  
Dikbaş E., ÜSTÜNER F.  
7th International Electromagnetic Compatibility Conference, EMC Türkiye 2023, İstanbul, Turkey, 17 - 20 September 2023
- III. **EMI Reduction in Multilayer PCBs Using Planar Interdigital Slot Structures on the Reference Planes**  
Baghel L. K., Sis S. A., ÜSTÜNER F., Kumar S.  
9th IEEE International Symposium on Microwave, Antenna, Propagation and EMC Technologies for Wireless Communications, MAPE 2022, Chengdu, China, 26 - 29 August 2022, pp.352-356
- IV. **A Novel Hybrid Nested Reverberation Chamber Measurement Technique for Shielding Effectiveness of Conductive Fabrics**  
Ozdemir H. E., Nisanci M. H., ÜSTÜNER F., Citkaya A. Y., TORPİ H., Mersin M. T., Aba R., Cosar C.  
2022 International Symposium on Electromagnetic Compatibility - EMC Europe, EMC Europe 2022, Gothenburg, Sweden, 5 - 08 September 2022, vol.2022-September, pp.201-205
- V. **Effect of the Geometry of Slots and Splits on EMI Level of PCBs: A Parametric Study**  
Sis S. A., ÜSTÜNER F.  
34th General Assembly and Scientific Symposium of the International Union of Radio Science, URSI GASS 2021, Rome, Italy, 28 August - 04 September 2021
- VI. **Case Study of a Radiated Susceptibility Problem Leading to a TVS Diode Thermal Runaway**  
Ustime F., Demirel E., Citkaya A. Y., Mersin M. T., Cesar C.  
34th General Assembly and Scientific Symposium of the International Union of Radio Science, URSI GASS 2021, Rome, Italy, 28 August - 04 September 2021
- VII. **Assessment of PED interference to ILS and VOR receivers in a small cargo plane**  
ÜSTÜNER F., COŞAR C., Demirel E., Baran E., GÖKDOĞAN İ. H.  
2016 URSI Asia-Pacific Radio Science Conference (URSI AP-RASC), SEUL, South Korea, 21 August 2016

- VIII. **Prediction of the electromagnetic interference due to antenna systems in non-metallic vessels**  
ÜSTÜNER F., Demirel E., Baran E., GÖKDOĞAN İ. H., COŞAR C.  
MTS/IEEE OCEANS 2015, Cenova, Italy, 18 May 2015
- IX. **Loop antenna pattern measurements**  
ÇETİNTAŞ M., ÇAKIR S., ŞEN O., ÇINAR M., ÜSTÜNER F.  
29th Conference on Precision Electromagnetic Measurements (CPEM 2014), Rio de Janeiro, Brazil, 24 August 2014
- X. **Effects of sensor positions on military radiated susceptibility tests**  
ÇAKIR S., ŞEN O., ÇINAR M., AYAYDIN A., ÇETİNTAŞ M., ÜSTÜNER F.  
29th Conference on Precision Electromagnetic Measurements (CPEM 2014), Rio de Janeiro, Brazil, 24 August 2014
- XI. **Antenna radiation pattern measurement using an unmanned aerial vehicle (UAV)**  
ÜSTÜNER F., AYDEMİR M. E., GÜLEÇ E., İLARSLAN M., ÇELEBİ M., Demirel E.  
31th URSI General Assembly and Scientific Symposium (URSI GASS 2014), Pekin, China, 16 August 2014
- XII. **The Effect of Superstructure on the Impedance and Radiation Characteristics of the Naval HF Monopole Antenna**  
ÜSTÜNER F.  
2013 International Conference on Electromagnetics in Advanced Applications (ICEAA), 09 September 2013
- XIII. **KRON's Method Applied to the Study of Electromagnetic Interference Occurring in Aerospace Systems**  
LEMAN S., REINEIX A., HOEPPE F., MAHMOUDI M., DEMOULIN B., ÜSTÜNER F., RODRIGUEZ V. P.  
2012 ESA Workshop on Aerospace EMC, 21 May 2012
- XIV. **Experimental Investigation of the Shield Termination Effect on the Field-to-Cable Coupling Level**  
ÜSTÜNER F., TARIM N., Baran E.  
Progress In Electromagnetics Research Symposium (PIERS 2012), Kuala-Lumpur, Malaysia, 27 March 2012, pp.19-22
- XV. **Interaction of a MW AM Broadcast Transmitter with a Large Crane and The Analysis of the Workers' Safety**  
ÜSTÜNER F.  
30th URSI General Assembly and Scientific Symposium, (URSIGASS 2011), 13 August 2011
- XVI. **Design and Realization of a Planar Near Field Antenna Measurement System**  
ÖZTÜRK Y., ÜSTÜNER F.  
30th URSI General Assembly and Scientific Symposium, (URSIGASS 2011), 13 August 2011
- XVII. **An EMC Experimental kit for Demonstrating the Effect of Printed Circuit Board Layout on the Radiated Emissions**  
ÜSTÜNER F., Baran E.  
30th URSI General Assembly and Scientific Symposium, (URSIGASS 2011), 13 August 2011
- XVIII. **Three Dimensional Safety Distance Analysis around a Cellular Base Station**  
ÜSTÜNER F.  
Progress in Electromagnetics Research Symposium (PIERS 2011), Marakeş, Morocco, 20 March 2011, pp.1770-1774
- XIX. **A Telemetry Antenna System for Unmanned Air Vehicles**  
ÜSTÜNER F.  
Progress in Electromagnetics Research Symposium (PIERS 2010), Boston, United States Of America, 05 July 2010, pp.635-639
- XX. **Optimization of Aperture Coupled Microstrip Patch Antennas**  
KIZILTAŞ ŞENDUR G., ÜSTÜNER F.  
Progress in Electromagnetics Research Symposium (PIERS 2010), Boston, United States Of America, 05 July 2010, pp.657
- XXI. **Meeting the NSA Requirement for CISPR 16-1-4 in a MIL-STD-461E Type Semi Anechoic Room**  
ÜSTÜNER F., COŞAR C., Demirel E., DAĞDEVİREN A.  
International Symposium on Electromagnetic Compatibility and Electromagnetic Ecology (EMCECO 2007), Saint Peter, Guernsey And Alderney, 26 June 2007, pp.212-215

- XXII. **EMI/EMC Analysis of Shipboard HF Antenna by Moment Method**  
TÜRETKEN B., ÜSTÜNER F., Demirel E., DAĞDEVİREN A.  
11th International Conference on Mathematical Methods in Electromagnetic Theory (MMET 2006), Kharkiv, Ukraine, 26 June 2006, pp.350
- XXIII. **Coupling on Complex Platforms: A Comparison Between MOM and MOM/UTD Hybrid Method**  
DAĞDEVİREN A., ÇEREZCİ O., ÜSTÜNER F., TÜRETKEN B., KAHRİMAN M.  
11th International Conference on Mathematical Methods in Electromagnetic Theory (MMET 2006), Kharkiv, Ukraine, 26 June 2006, pp.276
- XXIV. **Theoretical and Experimental Investigation of Box-To-Antenna Coupled EMI Noise on a Helicopter under the Influence of Rotors**  
ÜSTÜNER F., ÇEREZCİ O., ŞEKER Ş. S., ARI N.  
2003 IEEE International Symposium on Electromagnetic Compatibility (IEEE EMC 2003), İstanbul, Turkey, 11 May 2003
- XXV. **Design and Realization of a New Type Electric Field Probe (400 MHz - 1 GHz)**  
Baran E., ÇEREZCİ O., ÜSTÜNER F., DAĞDEVİREN A., TÜRETKEN B.  
2th International Conference on Electrical and Electronics Engineering (ELECO'2001), Bursa, Turkey, 07 November 2001
- XXVI. **A Method for Evaluating the Shielding Effectiveness of Small Enclosures**  
ÜSTÜNER F., AKSES A., ARAZ İ., ÇOLAK B.  
2001 IEEE International Symposium on Electromagnetic Compatibility (IEEE EMC 2001), Montreal, Canada, 13 August 2001
- XXVII. **FAC Correlation with OATS Measurements**  
ARAZ İ., ÇEREZCİ O., ŞEKER Ş. S., ÜSTÜNER F.  
4th European Symposium on Electromagnetic Compatibility (EMC Europe 2000), Brugge, Belgium, 11 September 2000
- XXVIII. **Testing the EMP Effect on an Ordnance System**  
ÜSTÜNER F., ARAZ İ., YAZICI M., PAZAR Ş.  
15th International Wroclaw Symposium and Exhibition on Electromagnetic Compatibility, Wroclaw, Poland, 27 June 2000, pp.841-845
- XXIX. **Fully Anechoic Chamber Construction and Evaluation**  
ÜSTÜNER F., ARAZ İ., Baran E.  
Regional Conference on Military Communication and Information Systems '99 (RCMCIS '99), Zegrze, Poland, 01 October 1999
- XXX. **Electromagnetic Compatibility Tests on Hearing Aids**  
YÜREKLİ A. İ., ÖZKAN M., ÜSTÜNER F.  
14th International Wroclaw Symposium and Exhibition on Electromagnetic Compatibility, Wroclaw, Poland, 23 - 25 June 1998, pp.247-251
- XXXI. **Theoretical and experimental shielding study of offices**  
KARACAGİL P., ŞEKER Ş. S., ÜSTÜNER F., ARI N.  
14th International Wroclaw Symposium and Exhibition on Electromagnetic Compatibility, Wroclaw, Poland, 23 June 1998, pp.423-427
- XXXII. **Design of a MMIC Low Noise Amplifier with Active Matching**  
ÜSTÜNER F., GÜNALP N.  
Fourth IEEE International Conference on Electronics, Circuits, and Systems (ICECS '97), Kahire, Egypt, 15 December 1997, pp.183-187

## **Memberships / Tasks in Scientific Organizations**

URSI, Member, 2016 - Continues, United States Of America