

Assoc. Prof. FULYA ÇALLIALP

Personal Information

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Biography

Fulya Çallıalp was born in Ankara, Turkey, 1979. She received the B.S. degree in Electronic and Communication Engineering (with high honors) from Yıldız Technical University in 2001, the M.S. and the Ph D. degree in Electrical and Electronics Engineering from Bogazici University, Istanbul, Turkey, in 2004, 2011 respectively. From 2004 to 2007, she was employed by TUBITAK National Metrology Institute (UME) in electromagnetic compatibility laboratory. She was a teaching and research assistant at Bogazici University from 2007 to 2011. During 2011 and 2019, she was an assistant professor in Marmara University, Istanbul, Turkey. She was promoted to Associate Professor on June 2019. She was a Visiting Assistant Professor at the Department of Electrical Engineering, Chulalongkorn University, in Bangkok, Thailand from July 2016 to July 2018. She has been working in the area of electromagnetic computation, propagation, and related areas. She has published 19 journal papers and one book chapter. She has chaired conference sessions, collaborated with other scholars on research and presented at numerous regional, national and international conference meetings. She has given invited talks in Thailand. She is a member of IEEE since 2002.

Education Information

Doctorate, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2004 - 2011

Postgraduate, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2001 - 2004

Undergraduate, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1997 - 2001

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Web-splines solution of 3D electromagnetic problems, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2011

Postgraduate, Antennas site-location optimization and their effects on radio coverage, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2004

Research Areas

Electrical and Electronics Engineering, Electromagnetic, Electromagnetic in Biology and Medicine, Electric and Magnetic Fields, Electromagnetic Band Spacing Structures, Electromagnetic Environment and Interaction, Electromagnetic Waves,

Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Engineering, Electrical and Electronics Engineering, 2019 - Continues

Assistant Professor, Marmara University, Faculty of Engineering, Electrical and Electronics Engineering, 2011 - 2019

Assistant Professor, Chulalongkorn University, Engineering, Electrical Engineering, 2016 - 2018

Research Assistant, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2007 - 2011

Academic and Administrative Experience

Marmara University, Faculty of Engineering, 2018 - Continues

Marmara University, Faculty of Engineering, 2014 - 2016

Marmara University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2016

Marmara University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2016

Marmara University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2016

Courses

Electromagnetics, Undergraduate, 2019 - 2020

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

- I. **Temperature Increase and Specific Absorption Rate Distribution in Human Breast from Cell Phone Radiation**
KUNTER F., Gündüz C., ŞEKER S.
JOURNAL OF MEDICAL IMAGING AND HEALTH INFORMATICS, vol.8, no.6, pp.1186-1191, 2018 (Journal Indexed in SCI)
- II. **Prediction of SAR and temperature distribution in the human ear and mouth exposed to handheld transmitters**
KUNTER F.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.32, no.13, pp.1644-1653, 2018 (Journal Indexed in SCI)
- III. **WEB-SPLINE PREDICTION OF OCULAR SURFACE TEMPERATURE USING BIOHEAT EQUATION WITH EXTERNAL SOURCE EXPOSURE**
KUNTER F., ŞEKER Ş. S.
JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.14, no.1, 2014 (Journal Indexed in SCI)
- IV. **Simulation of discrete electromagnetic propagation model for atmospheric effects on mobile communication**
ŞEKER Ş. S., KUNTER F.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, pp.1944-1955, 2013 (Journal Indexed in SCI)
- V. **Radially symmetric weighted extended b-spline model**
KUNTER F., Şeker Ş. S.
APPLIED MATHEMATICS AND COMPUTATION, vol.217, no.24, pp.10305-10316, 2011 (Journal Indexed in SCI)
- VI. **Multi-components mobile propagation model of park environment**
Şeker Ş. S., KUNTER F.

IEEE Transactions on Magnetics, vol.47, pp.1494-1497, 2011 (Journal Indexed in SCI)

VII. **3D web-splines solution to human eye heat distribution using bioheat equation**

KUNTER F., Şeker Ş. S.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.35, no.4, pp.639-646, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Experimental Propagation Study for 2G, 3G, and 4G Frequencies**
KUNTER F., Şeker Ş. S. , Sürmeli E., ÇEREZCİ O.
International Journal of Modern Research in Engineering and Technology, vol.3, pp.20-26, 2018 (Refereed Journals of Other Institutions)
- II. **Analysis of Cancerous Tissue Temperature in the Breast During Hyperthermia**
KUNTER F., Janpugdee P., Limsawan K.
International Journal of Modern Research in Engineering and Technology, vol.3, pp.27-30, 2018 (Refereed Journals of Other Institutions)
- III. **Computation of SAR and Temperature Values in the Human Head Due to 2G, 3G, 4G Mobile Wireless Systems**
KUNTER F., Gündüz C., Şeker Ş. S.
Journal of Aeronautics and Space Technologies, vol.11, pp.1-6, 2018 (Other Refereed National Journals)
- IV. **Electromagnetic Radiation Exposure of Crowd at GSM Frequencies**
Şeker Ş. S. , KUNTER F., Yolsal E.
International Journal of Modern Research in Engineering and Technology, vol.2, pp.7-13, 2017 (Refereed Journals of Other Institutions)
- V. **Experiments of the Propagation through Forest at GSM Frequencies (2G-3G-4G)**
Şeker Ş. S. , KUNTER F., ÇEREZCİ O., Karabağ K.
International Journal of Modern Research in Engineering and Technology, vol.2, pp.14-19, 2017 (Refereed Journals of Other Institutions)
- VI. **Literature Review of the RD Teams' Leadership to Manage Innovation**
Parlak F., VAYVAY Ö., KUNTER F., KALENDER Z. T.
Review of Integrative Business and Economics, vol.6, pp.327-340, 2017 (Refereed Journals of Other Institutions)
- VII. **Electromagnetic Pollution Assessment in Different Environments with Measurements and Modellings at Very Low Frequency**
KUNTER F., Şeker Ş. S.
Süleyman Demirel University, Journal of Natural and Applied Sciences, vol.21, pp.724-732, 2017 (Other Refereed National Journals)
- VIII. **Farklı Mesafe ve Açılarda RF Yayılımına Maruz Kalan İnsan Kafasındaki Sıcaklık ve Özgül Soğurma Oranı Dağılımı**
KUNTER F., CIRIK ACIKAYA F.
International Journal of Engineering Research and Development, vol.9, pp.92-102, 2017 (Other Refereed National Journals)
- IX. **The Importance of Daily Life Phenomena in Chemical Engineering Education**
Çiftçioğlu G. A. , Kunter F., Yılan G., Kadırgan M. A. N.
International Journal of Information and Education Technology, vol.7, pp.837-843, 2017 (Refereed Journals of Other Institutions)
- X. **Students exposure to radio frequency electromagnetic fields in Marmara University**
KUNTER F.
Marmara Journal of Science, vol.1, pp.32-36, 2015 (Other Refereed National Journals)
- XI. **The effect of ground types on radio coverage of broadcast antennas**
KUNTER F.
Scottish Journal of Arts, Social Sciences and Scientific Studies, vol.14, pp.138-150, 2013 (Refereed Journals of Other

Institutions)

- XII. **Mikrodalga ışımalı insan gözünün ağırlıklı genişletilmiş B-spline eğri modeli**
KUNTER F.
Fen Bilimleri Dergisi, Marmara Üniversitesi, vol.24, pp.35-44, 2012 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Analysis of SAR and Temperature Distribution in Arm Cancer Treatment by Hyperthermia**
Palasak P., Janpugdee P., KUNTER F.
The 33rd International Technical Conference on Circuits/Systems, Computers and Communications, Bangkok, Thailand, 4 - 07 July 2018
- II. **Temperature and SAR Distribution in Human Head From Mobile Phone of 2G, 3G, 4G Using FEM Modeling**
Gunduz C., ŞEKER Ş. S. , KUNTER F., Cerezci O.
International Symposium on Antennas and Propagation (ISAP), Phuket, Thailand, 30 October - 02 November 2017
- III. **Analysis of Cancerous Tissue Temperature in the Breast During Hyperthermia**
Limsawan K., Janpugdee P., KUNTER F.
International Symposium on Antennas and Propagation, ISAP 2017, Bangkok, Thailand, 30 October - 02 November 2017
- IV. **Breast Cyst Diagnosis Based on Surface Temperature Profile**
Limsawan K., Janpugdee P., KUNTER F.
2nd Mini Symposium IEMAT 2017, Bangkok, Thailand, 14 - 16 June 2017
- V. **Literature Review of the RD Teams' Leadership to Manage Innovation**
Parlak F., VAYVAY Ö., KUNTER F., KALENDER Z. T.
SIBR Thammasat University, Bangkok, Thailand, 25 - 26 May 2017
- VI. **Importance of artificial intelligence in reverse logistics: The state of the art**
Temuçin T., KUNTER F., VAYVAY Ö.
6th International conference on Advances in Applies Science and Environmental Technology, Bangkok, Thailand, 25 - 26 February 2017
- VII. **The Importance of Daily Life Phenomena in Chemical Engineering Education**
ÇİFTÇİOĞLU G. A. , KUNTER F., YILAN G., KADIRGAN M. A. N.
3rd International Conference on Education and Social Sciences (ICESS 2016), BANGKOK, Thailand, 9 - 11 October 2016
- VIII. **The Improtance of Daily Life Phenomena in Chemical Engineering Education**
ÇİFTÇİOĞLU G. A. , KUNTER F., YILAN ÇİFTÇİ G., KADIRGAN M. A. N.
3rd International Conference on Education and Social Sciences (ICESS2016), bangkok, Thailand, 9 - 11 October 2016
- IX. **The Effects of Antenna Position on RF Exposed Human Head**
CIRIK ACIKAYA F., ÇELEBİ M. F. , KUNTER F., ŞEKER Ş. S.
URSI Asia-Pacific Radio Science Conference (URSI AP-RASC), Seoul, South Korea, 21 - 25 August 2016, pp.1349-1352
- X. **The effects of antenna position on RF exposed human brain**
CIRIK ACIKAYA F., ÇELEBİ M. F. , KUNTER F., Şeker Ş. S.
2016 URSI Asia-Pacific Radio Science Conference, URSI AP-RASC 2016, Seoul, South Korea, 21 - 25 August 2016
- XI. **Değişken Uzaklık ve açılı değerlerine sahip RF dalga yayımlarının insan beyninde oluşturduğu SAR ve sıcaklık değişimleri**
ÇELEBİ M. F. , CIRIK ACIKAYA F., KUNTER F., Şeker Ş. S.
Elektromanyetik Alanlar ve Etkileri Sempozyumu, EMANET 2015, Mersin, Turkey, 13 - 15 November 2015
- XII. **Marmara Üniversitesi'ndeki öğrencilerin radyo frekansı ve düşük frekans elektromanyetik alan kaynaklarına karşı risk değerlendirmesi ve yazılım uygulaması**

Kırkağaç Y., Erpolat T. G. , KUNTER F.

Elektromanyetik Alanlar ve Etkileri Sempozyumu, EMANET 2015, Mersin, Turkey, 13 - 15 November 2015

XIII. Optimized indoor propagation model for office environment at GSM frequencies

Erol M. A. , Şeker Ş. S. , KUNTER F., Çitkaya Y.

International Conference on Electromagnetics in Advanced Application, ICEAA - IEEE APWC 2015, Torino, Italy, 7 - 11 September 2015

XIV. Prediction of temperature distribution in laser-tissue interaction using splines

KUNTER F.

The Sixteenth Biennial IEEE Conference on Electromagnetic Field Computation, Annecy, France, 25 - 28 May 2014

XV. Risk assesment for university students occupationally exposed to electromagnetic fields in Turkey

KUNTER F., Kırkağaç Y.

Progress in Electromagnetics Research Symposium, PIERS 2013, Stockholm, Sweden, 12 - 15 August 2013

XVI. EM propagation loss model for wireless communication

Şeker Ş. S. , ÇEREZCİ O., KUNTER F., Çitkaya Y.

Advanced Electromagnetics Symposium, AES 2013, Sharjah, United Arab Emirates, 19 - 22 March 2013

XVII. Study of Strong Turbulence Effects for Optical Wireless Links

Yuksel H., Meric H., KUNTER F.

Conference on Laser Communication and Propagation through the Atmosphere and Oceans, California, United States Of America, 13 - 15 August 2012, vol.8517

XVIII. Optical Propagation in a Turbulent Atmosphere Using the Split Step Method

Yuksel H., KUNTER F.

Conference on Laser Communication and Propagation through the Atmosphere and Oceans, California, United States Of America, 13 - 15 August 2012, vol.8517

XIX. SAR and Temperature Increase in Human Head from RF Exposure Using FEM Modeling

Çitkaya Y., Şeker Ş. S. , KUNTER F., Çitkaya Z.

The 6th International Conference on Bioinformatics and Biomedical Engineering, ICBBE 2012, Shanghai, China, 17 - 20 May 2012, pp.495-498

XX. Mobil Frekanslarda Kar Zayıflamasının Modellenmesi

Şeker Ş. S. , KUNTER F.

”, IEEE 20. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, SIU 2012, Fethiye, Turkey, 18 - 20 April 2012

XXI. Web-Spline Computation of Temperature Rise within a Model of the Microwave Irradiated Human Eye

KUNTER F., Şeker Ş. S. , KALKAN M. T. , Çitkaya Y.

The 33rd Annual Symposium of the Antenna Measurement Techniques Association, AMTA 2011, Colorado, United States Of America, 16 - 21 October 2011

XXII. Using Bioheat Equation 3D WEB-Spline Prediction of Ocular Surface Temperature

KUNTER F., Şeker Ş. S.

The 29th Progress in Electromagnetics Research Symposium, PIERS 2011, Marrakush, Morocco, 20 - 23 March 2011

XXIII. Comparison of propagation loss prediction models of UMTS for an urban Areas

Şeker Ş. S. , Yelen S., KUNTER F.

18th Telecommunications froum TELFOR 2010, Belgrade, Serbia And Montenegro, 23 - 25 November 2010, pp.902-905

XXIV. Multi-Components Mobile Propagation Model of Park Environment

Şeker Ş. S. , Öç Y., KUNTER F.

14th Biennial IEEE Conference on Electromagnetic Field Computations (IEEE CEFC2010), Chicago, United States Of America, 9 - 12 May 2010

XXV. Radio Propagation Path Loss Prediction of UMTS for an Urban Area

Yelen S., Şeker Ş. S. , KUNTER F.

14th Biennial IEEE Conference on Electromagnetic Field Computations (IEEE CEFC2010), Chicago, United States Of America, 9 - 12 May 2010

- XXVI. **Heat Transfer Model of the Human Eye Using Web-Spline Technique**
KUNTER F., Şeker Ş. S.
14th Biennial IEEE Conference on Electromagnetic Field Computations (IEEE CEFC2010), Chicago, United States Of America, 9 - 12 May 2010
- XXVII. **Park ortamlarının çoklu bileşen mobil propagasyon modeli**
Şeker Ş. S. , Öç Y., KUNTER F.
IEEE 18. Sinyal işleme ve iletişim uygulamaları kurultayı SIU2010, Diyarbakır, Turkey, 22 - 24 April 2010
- XXVIII. **Web-spline solution of axisymmetric cylindrical problems**
KUNTER F., APAYDIN G., Arı N., Şeker Ş. S.
The Asia Pacific Microwave Conf., Macau, China, 16 - 20 December 2008
- XXIX. **Use of web-splines for waveguide of arbitrary domain**
KUNTER F., APAYDIN G., Arı N., Şeker Ş. S.
The Asia Pacific Microwave Conf., Macau, China, 16 - 20 December 2008
- XXX. **Elektromanyetik Kirlilik, GSM Baz İstasyonları ve Işınımların Ölçülmesi**
Hamid R., Çetintaş M., KUNTER F., Karacadağ H.
Kent ve Sağlık Sempozyumu, Bursa, Turkey, 7 - 09 June 2006, pp.220
- XXXI. **Simulation of RCS and XPD of Thin Dielectric Bodies**
Şeker Ş. S. , Gündüz O., KUNTER F.
Optimization of Electrical and Electronic Equipment – OPTIM'06, Brasov, Romania, 18 - 20 May 2006, vol.1, pp.45-50
- XXXII. **Propagation and Backscattering Model for Medium of Random Particles**
Şeker Ş. S. , KUNTER F.
Electrical and Control Technologies 2006 (ECT'06), 4 - 05 May 2006, pp.167-171
- XXXIII. **Modeling and Experimental Study of Electromagnetic Pollution in a Turkish Hospital**
Şeker Ş. S. , Gökmen D., KUNTER F.
Fourth International Conference on Electrical and Electronics Engineering, ELECO' 2005, Bursa, Turkey, 7 - 11 December 2005
- XXXIV. **Modelling and Simulation of Antenna Farm for Radio Coverage**
KUNTER F., Şeker Ş. S.
Proceedings of the 14th IASTED International Conference Applied Simulation and Modelling, Benalmedena, Spain, 15 - 17 June 2005
- XXXV. **Interference and Bioeffects of Antenna Farm**
KUNTER F., Şeker Ş. S.
Loughborough Antennas and Propagation Conference, Loughborough, United Kingdom, 4 - 06 April 2005

Supported Projects

Çallıalp F., Project Supported by Higher Education Institutions, To Map the Electromagnetic Field Pollution of Goztepe Campus in Marmara University at Low Frequencies, 2014 - 2020

Çallıalp F., Project Supported by Higher Education Institutions, To Map the Electromagnetic Field Pollution of Goztepe Campus in Marmara University at Radio Frequencies, 2012 - 2013

Citations

Total Citations (WOS):24

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