

Prof. Filiz GÜNEŞ

Personal Information

Email: gunes@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/gunes>

International Researcher IDs

ORCID: 0000-0002-4794-6878

Yoksis Researcher ID: 39991

Education Information

Doctorate, Bradford and Ilkley Community College, Electrics-Electronics, United Kingdom 1975 - 1979

Postgraduate, Istanbul Technical University, Elektrik-Elektronik, Elektrik, Turkey 1968 - 1972

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Electrical and Electronics Engineering, Electromagnetic, Electric and Magnetic Fields, Electromagnetic Waves, Antennas and Propagation, Passive Microwave Circuits, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği, 1993 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği, 1987 - 1993

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği, 1983 - 1987

Research Assistant, Bradford and Ilkley Community College, Faculty of Electrical & Electronics, Elektronik Ve Haberleşme, 1978 - 1983

Academic and Administrative Experience

Yıldız Teknik Üniversitesi, 2004 - 2010

Yıldız Teknik Üniversitesi, 1994 - 1998

Advising Theses

Güneş F., Doğrusal dizilim antenlerin ışına örüntülerinin sentezi, Doctorate, F.Tokan(Student), 2010

Güneş F., Genelleştirilmiş Mikrodalga Kuvvetlendirici Tasarım Prosedürü ve Uygulamaları, Doctorate, S.Demirel(Student), 2009

Güneş F., Küresel Konumlandırma sistemi için Düşük Gürültülü Kuvvetlendirici Geliştirilmesi, Doctorate, İ.Onur(Student), 2008

Güneş F., Yenilikçi Bir Arama Kurtarma Sistemlerinde Veri İletişimini için Algoritma Geliştirme Ortamı, Postgraduate, E.İlknur(Student), 2007

Güneş F., LineerAnten Dizilerinde Genetik Algoritma Kullanarak Işıma Paterni Sentezi, Postgraduate, E.Atay(Student), 2007

Güneş F., Yapay Sinir Ağları İle Smith Abağı Modeli, Doctorate, M.Fatih(Student), 2007

Güneş F., GSM EL Değiştirmenin Yapay Sinir Ağlarıyla Modellenmesi, Postgraduate, O.Büyükeroğlu(Student), 2006

Güneş F., Mikroşerit Hat Süreksizliklerinin Devre Temelli Yapay Sinir Ağı Modeli, Postgraduate, O.Erden(Student), 2006

Güneş F., Ek Devre Yöntemi ve Mırodalga Kuvvetlendiricilerinin Performans Duyarlılıklarına Uygulaması, Postgraduate, N.Güroğlu(Student), 2005

Güneş F., Devre Fonksiyonları ile Bir Mikrodalga Transistörünün Optimum Sonlandırmalarının Gerçekleştirilmesi, Postgraduate, M.Ercüment(Student), 2005

Güneş F., Bir Mikrodalga Transistör için Uydurma Devrelerinin Analitik Gradyantları ile Potansiel Karakteristiklerine Uygun Sentezi, Postgraduate, S.Demirel(Student), 2005

Güneş F., Optimum Performanslı Mikrodalga Kuvvetlendirici Tasarımı, Doctorate, Y.Cengiz(Student), 2004

Güneş F., RF/Mikrodalga Düzlemsel İletim Hatlarının Yapay Sinir Ağları İle Analiz ve Sentezi, Postgraduate, N.Türker(Student), 2004

Güneş F., Transfer Saçılma Parametreleri İle Mikrodalga Kuvvetlendirici Analiz Ve Sentezi, Postgraduate, U.Hınçal(Student), 2004

Güneş F., Kaskad Bağlı - Kapılının Kazanç Duyarlılık Analizi Ve Dağılımı Parametrelili Mikrodalga Kuvvetlendiricilerine Uygulaması, Postgraduate, S.Altunç(Student), 2003

Güneş F., Performans (F, Vi, Gt) Üçlüleri Kullanılarak Geniş Bandlı Mikrodalga Kuvvetlendirici Tasarımı, Postgraduate, İ.Aliyev(Student), 2001

Güneş F., Geribesleme Uygulanmış Mikrodalga Transistörün Performans Karakterizasyonu, Postgraduate, B.Sağır(Student), 2001

Güneş F., Mikrodalga Transistörün Yapay Sinir Ağı ile Performans Analizi ve Modellenmesi, Doctorate, C.Tepe(Student), 2000

Güneş F., Bir Mikrodalga Transistörünün Yük Empedans Düzleminde Performans Karakterizasyonu, Postgraduate, T.Vural(Student), 1999

GÜNEŞ F., Elektromagnetik Dalgaların Yüzeyleri Empedans Özelliği Gösteren Bir Tarafı Açık Dalga Kılavuzundan Saçılması, Doctorate, B.Artuğ(Student), 1999

GÜNEŞ F., Mikrodalga Transistörlerinin Yapay Sinir Ağı Eşdeğerlikleri, Doctorate, H.Torpi(Student), 1997

GÜNEŞ F., Frekans Seçici Pasif Mikro Devreleri İçin Bir Bileşik Teori ve Yeni Tip Devrelerin Gerçekleştirilmesi, Postgraduate, R.Ramiz(Student), 1996

GÜNEŞ F., Yağmur Nedeniyle Radyo Dalgaları Zayıflatması, Postgraduate, Ö.Kaniöz(Student), 1994

GÜNEŞ F., Çapraz Konfigurasyonda Schottky Karıştırıcı Diodların Performans Sınırlamalarının Bilgisayar Destekli Analizi ve Optimizasyonu, Doctorate, M.Maksudi(Student), 1993

GÜNEŞ F., Yer-Uydu Haberleşmesinde Yağmur Kaynaklı Zayıflatmanın İstatiksel Modellenmesi, Postgraduate, K.Dimilliler(Student), 1993

GÜNEŞ F., Mikrodalga Transistörlerinin Performans Eğrilerinin Bilgisayarla Simülasyonu, Postgraduate, M.Fidan(Student), 1993

GÜNEŞ F., Kafes Konfigurasyonda Schottky Karıştırıcı Diodların Dönüştürme Kaybı Sınırlamaları, Doctorate, A.KAVAS(Student), 1991

GÜNEŞ F., Düşük Gürültülü Mikrodalga Kuvvetlendirici Tasarımı, Postgraduate, H.torpi(Student), 1989

GÜNEŞ F., Soft-Hard Bir Silindirik Şerit Üzerinde Ardışık Kırımın Sonucu Oluşan Akımlar, Doctorate, Ç.Göksu(Student), 1988

GÜNEŞ F., Mikrodalga Karıştırıcılarının Durum Denklemleriyle Karakterize Edilmesi, Postgraduate, A.Bülent(Student), 1986

GÜNEŞ F., Adaptif Dengelemeli Elektronik Hibrid, Postgraduate, N.Yüngül(Student), 1986

GÜNEŞ F., Mikroişlemci Kontrollü 8-boneli Telefon Santralı, Postgraduate, F.Başaran(Student), 1984

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Deep-learning-based precise characterization of microwave transistors using fully-automated regression surrogates**
Calik N., GÜNEŞ F., Koziel S., Pietrenko-Dabrowska A., Belen M. A., MAHOUTÍ P.
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- II. **3D EM data driven surrogate based design optimization of traveling wave antennas for beam scanning in X-band: an application example**
Belen A., GÜNEŞ F., Palandoken M., Tari O., Belen M. A., Mahouti P.
Wireless Networks, vol.28, no.4, pp.1827-1834, 2022 (SCI-Expanded)
- III. **3D EM data-driven artificial network-based design optimization of circular reflectarray antenna with semi-elliptic rings for X-band applications**
ÇALIŞKAN A., GÜNEŞ F.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.64, no.3, pp.537-543, 2022 (SCI-Expanded)
- IV. **Microstrip leaky wave antenna for wide range of beam scanning in X band**
Belen A., GÜNEŞ F., Belen M. A., MAHOUTÍ P.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.63, no.10, pp.2646-2650, 2021 (SCI-Expanded)
- V. **A compact triband antipodal Vivaldi antenna with frequency selective surface inspired director for IoT/WLAN applications**
Gunes F., Evranos I. O., Belen M. A., Mahouti P., Palandoken M.
WIRELESS NETWORKS, vol.27, no.5, pp.3195-3205, 2021 (SCI-Expanded)
- VI. **Physical parameter-based data-driven modeling of small signal parameters of a metal-semiconductor field-effect transistor**
Satilmis G., GÜNEŞ F., MAHOUTÍ P.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.34, no.3, 2021 (SCI-Expanded)
- VII. **Gain Enhancement of a Traditional Horn Antenna using 3D Printed Square-Shaped Multi-layer Dielectric Lens for X-band Applications**
Belen A., Mahouti P., Güneş F., Tari Ö.
Applied Computational Electromagnetics Society Journal, vol.36, no.2, pp.132-138, 2021 (SCI-Expanded)
- VIII. **Gain Enhancement of a Traditional Horn Antenna using 3D Printed Square-Shaped Multi-layer Dielectric Lens for X-band Applications**
Belen A., MAHOUTÍ P., GÜNEŞ F., Tari O.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.36, no.2, pp.132-138, 2021 (SCI-Expanded)
- IX. **Ultrawideband, high performance, cavity-backed Archimedean spiral antenna with Phelan balun for direction finding and radar warning receiver applications**
Akkaya E., Güneş F.
International Journal Of Rf And Microwave Computer-Aided Engineering, vol.1, no.1, pp.1-18, 2021 (SCI-Expanded)
- X. **3D printed wideband flat gain multilayer nonuniform reflectarray antenna for X-band applications**
Belen A., GÜNEŞ F., Belen M. A., MAHOUTÍ P.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.33, no.6, 2020 (SCI-Expanded)
- XI. **Design Optimization of a Dual-band Microstrip SIW Antenna using Differential Evolutionary Algorithm for X and K-Band Radar Applications**
Belen A., Güneş F., Mahouti P.
Applied Computational Electromagnetics Society Journal, vol.35, no.7, pp.778-783, 2020 (SCI-Expanded)
- XII. **Design Optimization of a Dual-band Microstrip SIW Antenna using Differential Evolutionary Algorithm for X and K-Band Radar Applications**
Belen A., GÜNEŞ F., MAHOUTÍ P.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.35, no.7, pp.778-783, 2020 (SCI-

Expanded)

- XIII. **Full flexible performance characterization of a feedback applied transistor with LNA applications**
Güneş F., Yurttakal O.
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, vol.48, no.1, pp.56-71, 2020 (SCI-Expanded)
- XIV. **A novel design of high performance multilayered cylindrical dielectric lens antenna using 3D printing technology**
Belen A., Güneş F., Maliouti P., Palandoken M.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.30, no.1, 2020 (SCI-Expanded)
- XV. **Pareto Optimal Characterization of a Microwave Transistor**
Güneş F., Uluslu A., Mahouti P.
IEEE ACCESS, vol.8, pp.47900-47913, 2020 (SCI-Expanded)
- XVI. **Microstrip tapered traveling wave antenna for wide range of beam scanning in X- and Ku-bands**
Güneş F., Belen A., Belen M. A.
International Journal of RF and Microwave Computer-Aided Engineering, vol.29, 2019 (SCI-Expanded)
- XVII. **Design and realization of multilayered cylindrical dielectric lens antenna using 3D printing technology**
Mahouti P., Belen M. A., GÜNEŞ F., Yurt R.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.61, no.5, pp.1400-1403, 2019 (SCI-Expanded)
- XVIII. **A Novel Design of Non-Uniform Reflectarrays with Symbolic Regression and its Realization using 3-D Printer**
Mahouti P., Güneş F., Belen M. A., Çalışkan A.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.34, no.2, pp.280-285, 2019 (SCI-Expanded)
- XIX. **UWB Gain Enhancement of Horn Antennas Using Miniaturized Frequency Selective Surface**
Belen M. A., GÜNEŞ F., MAHOUTİ P., Belen A.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.33, no.9, pp.997-1002, 2018 (SCI-Expanded)
- XX. **Printed log-periodic trapezoidal dipole array antenna with a balun-feed for ultra-wideband applications**
ZENGİN F., AKKAYA E., Guenes F., Ecevit F. N.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.12, no.9, pp.1570-1574, 2018 (SCI-Expanded)
- XXI. **Performance enhancement of a microstrip patch antenna using substrate integrated waveguide frequency selective surface for ISM band applications**
GÜNEŞ F., Belen M. A., Mahouti P.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.5, pp.1160-1164, 2018 (SCI-Expanded)
- XXII. **Competitive evolutionary algorithms for building performance database of a microwave transistor**
GÜNEŞ F., Belen M. A., Mahouti P.
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, vol.46, no.2, pp.244-258, 2018 (SCI-Expanded)
- XXIII. **GSM filtering of horn antennas using modified double square frequency selective surface**
GÜNEŞ F., Sharipov Z., Belen M. A., Mahouti P.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.27, no.9, 2017 (SCI-Expanded)
- XXIV. **Symbolic Regression for Derivation of an Accurate Analytical Formulation Using "Big Data": An Application Example**
Mahouti P., GÜNEŞ F., Belen M. A., Demirel S.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.32, no.5, pp.372-380, 2017 (SCI-Expanded)
- XXV. **Adjoint sensitivity analysis of the T, , and L types of microstripline low noise amplifiers**
Demirel S., GÜNEŞ F., Mahouti P.

- INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.30, 2017 (SCI-Expanded)
- XXVI. **Cost-effective GRNN-based modeling of microwave transistors with a reduced number of measurements**
GÜNEŞ F., Mahouti P., DEMİREL S., BELEN M. A., ULUSLU A.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.30, 2017 (SCI-Expanded)
- XXVII. **Signal and Noise Modeling of Microwave Transistors Using Characteristic Support Vector-based Sparse Regression**
GÜNEŞ F., Belen M. A., MAHOUTI P., DEMİREL S.
RADIOENGINEERING, vol.25, no.3, pp.490-499, 2016 (SCI-Expanded)
- XXVIII. **Horn antennas with enhanced functionalities through the use of frequency selective surfaces**
Mahouti P., GÜNEŞ F., Belen M. A., ÇALIŞKAN A., Demirel S., Sharipov Z.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.26, no.4, pp.287-293, 2016 (SCI-Expanded)
- XXIX. **Performance characterization of a microwave transistor subject to the noise and matching requirements**
GÜNEŞ F., DEMİREL S.
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, vol.44, no.5, pp.1012-1028, 2016 (SCI-Expanded)
- XXX. **Design Optimization of LNAs and Reflectarray Antennas Using the Full-Wave Simulation-Based Artificial Intelligence Models with the Novel Metaheuristic Algorithms**
GÜNEŞ F., DEMİREL S., Nesil S.
SIMULATION-DRIVEN MODELING AND OPTIMIZATION, vol.153, pp.261-298, 2016 (SCI-Expanded)
- XXXI. **A simple and efficient honey bee mating optimization approach to performance characterization of a microwave transistor for the maximum power delivery and required noise**
GÜNEŞ F., Demirel S., MAHOUTI P.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.29, no.1, pp.4-20, 2016 (SCI-Expanded)
- XXXII. **An UWB LNA Design with PSO Using Support Vector Microstrip Line Model**
Demirel S., GÜNEŞ F., Keskin A. K.
Journal of Applied Mathematics, vol.2015, 2015 (SCI-Expanded)
- XXXIII. **A Novel Design Approach to X-Band Minkowski Reflectarray Antennas using the Full-Wave EM Simulation-based Complete Neural Model with a Hybrid GA-NM Algorithm**
Gunes F., Demirel S., Nesil S.
RADIOENGINEERING, vol.23, no.1, pp.144-153, 2014 (SCI-Expanded)
- XXXIV. **Design of a Front-End Amplifier for the Maximum Power Delivery and Required Noise by HBMO with Support Vector Microstrip Model**
GÜNEŞ F., Demirel S., Mahouti P.
RADIOENGINEERING, vol.23, no.1, pp.134-143, 2014 (SCI-Expanded)
- XXXV. **Design and Analysis of Minkowski Reflectarray Antenna Using 3-D CST Microwave Studio-Based Neural Network Model with Particle Swarm Optimization**
GÜNEŞ F., Nesil S., DEMİREL S.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.23, no.2, pp.272-284, 2013 (SCI-Expanded)
- XXXVI. **Performance characterisation of a microwave transistor for the maximum output power and the required noise**
Demirel S., GÜNEŞ F.
IET CIRCUITS DEVICES & SYSTEMS, vol.7, no.1, pp.9-20, 2013 (SCI-Expanded)
- XXXVII. **A Simple Synthesis of a High Gain Planar Array Antenna for Volume Scanning Radars**
Tokan F., Güneş F., Türetken B., Sürmeli K.

- APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.27, no.3, pp.271-277, 2012 (SCI-Expanded)
- XXXVIII. **Multiobjective FET modeling using particle swarm optimization based on scattering parameters with Pareto optimal analysis**
GÜNEŞ F., ÖZKAYA U.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.3, pp.353-365, 2012 (SCI-Expanded)
- XXXIX. **A modified particle swarm optimization algorithm and its application to the multiobjective FET modeling problem**
Ozkaya U., GÜNEŞ F.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.2, pp.263-271, 2012 (SCI-Expanded)
- XL. **Mutual Coupling Compensation in Non-Uniform Antenna Arrays using Inter-Element Spacing Restrictions**
Tokan F., Güneş F.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.26, no.7, pp.596-602, 2011 (SCI-Expanded)
- XLI. **Amplitude-Only Pattern Synthesis of Nonuniform Linear Arrays Using a Generalized Pattern Search Optimization**
GÜNEŞ F., Tokan F.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.21, no.3, pp.251-262, 2011 (SCI-Expanded)
- XLII. **Interference suppression by optimising the positions of selected elements using generalised pattern search algorithm**
TOKAN F., GÜNEŞ F.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.5, no.2, pp.127-135, 2011 (SCI-Expanded)
- XLIII. **A competitive approach to neural device modeling support vector machines**
Türker Tokan N., Güneş F.
LECTURE NOTES IN ARTIFICIAL INTELLIGENCE, vol.4132, pp.974-981, 2010 (SCI-Expanded)
- XLIV. **Pareto optimal synthesis of the linear array geometry for minimum sidelobe level and null control during beam scanning**
GÜNEŞ F., TOKAN F.
International Journal of RF and Microwave Computer-Aided Engineering, vol.20, no.5, pp.557-566, 2010 (SCI-Expanded)
- XLV. **A low-noise amplifier design using the performance limitations of a microwave transistor for the ultra-wideband applications**
GÜNEŞ F., Demirel S., Özkaya U.
International Journal of RF and Microwave Computer-Aided Engineering, vol.20, no.5, pp.535-545, 2010 (SCI-Expanded)
- XLVI. **A consensual modeling of the expert systems applied to microwave devices**
Güneş F., Tokan N., Gürgen F.
International Journal of RF and Microwave Computer-Aided Engineering, vol.20, no.4, pp.430-440, 2010 (SCI-Expanded)
- XLVII. **Pattern Search optimization with applications on synthesis of linear antenna arrays**
GÜNEŞ F., Tokan F.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.6, pp.4698-4705, 2010 (SCI-Expanded)
- XLVIII. **A knowledge-based support vector synthesis of the transmission lines for use in microwave integrated circuits**
Güneş F., Tokan N., Gürgen F.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.4, pp.3302-3309, 2010 (SCI-Expanded)
- XLIX. **KNOWLEDGE BASED SUPPORT VECTOR SYNTHESIS OF THE MICROSTRIP LINES**

Türker Tokan N., Güneş F.

Progress In Electromagnetics Research-Pier, vol.92, pp.65-77, 2009 (SCI-Expanded)

- L. **Particle swarm intelligence applied to determination of the feasible design target for a low-noise amplifier**
GÜNEŞ F., ÖZKAYA U., Demirel S.
Microwave and Optical Technology Letters, vol.51, no.5, pp.1214-1218, 2009 (SCI-Expanded)
- L.I. **A Novel Neural Smith Chart for Use in Microwave Circuitry**
GÜNEŞ F., Çağlar M. F.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.19, no.2, pp.218-229, 2009 (SCI-Expanded)
- L.II. **Support vector design of the microstrip lines**
Güneş F., Tokan N., Gürgeç F.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.18, no.4, pp.326-336, 2008 (SCI-Expanded)
- L.III. **Gain gradients applied to optimization of distributed-parameter matching circuits for a microwave transistor subject to its potential performance**
GÜNEŞ F., DEMİREL S.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.18, no.2, pp.99-111, 2008 (SCI-Expanded)
- L.IV. **Signal-noise support vector model of a microwave transistor**
GÜNEŞ F., Türker n., Gürgeç F.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.17, no.4, pp.404-415, 2007 (SCI-Expanded)
- L.V. **Adjoint network method applied to the performance sensitivities of microwave amplifiers**
GÜNEŞ F., Güroğlu n.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.16, no.5, pp.430-443, 2006 (SCI-Expanded)
- L.VI. **Artificial Neural Design of Microstrip Antennas**
Türker Tokan N., Güneş F., Yıldırım T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.1, pp.1-6, 2006 (SCI-Expanded)
- L.VII. **Design of a broadband microwave amplifier using neural performance data sheets and very fast simulated reannealing**
Cengiz Y., Göksu H., GÜNEŞ F.
ADVANCES IN NEURAL NETWORKS - ISSN 2006, PT 3, PROCEEDINGS, vol.3973, pp.815-820, 2006 (SCI-Expanded)
- L.VIII. **Neural unit element application for in use microwave circuitry**
Çağlar M. F., Güneş F.
ARTIFICIAL NEURAL NETWORKS - ICANN 2006, PT 2, vol.4132, pp.992-1001, 2006 (SCI-Expanded)
- L.IX. **Artificial neural networks in their simplest forms for analysis and synthesis of RF/microwave planar transmission lines**
Güneş F., Türker N.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.15, no.6, pp.587-600, 2005 (SCI-Expanded)
- L.X. **Gain-sensitivity analysis for cascaded two-ports and application to distributed-parameter amplifiers**
GÜNEŞ F., Altunc S.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.14, no.5, pp.462-474, 2004 (SCI-Expanded)
- L.XI. **Optimization of a microwave amplifier using neural performance data sheets with genetic algorithms**
GÜNEŞ F., Cengiz Y.
ARTIFICIAL NEURAL NETWORKS AND NEURAL INFORMATION PROCESSING - ICAN/ICONIP 2003, vol.2714, pp.630-637, 2003 (SCI-Expanded)
- L.XII. **Gain-bandwidth limitations of microwave transistor**

- GÜNEŞ F., Tepe C.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.12, no.6, pp.483-495, 2002 (SCI-Expanded)
- LXIII. **Wiener-Hopf analysis of the dominant mode propagation in a dual-ridged parallel plate waveguide with impedance loading**
Alkumru A., Buyukaksoy A., Gunes F.
ELECTROMAGNETICS, vol.22, no.1, pp.37-58, 2002 (SCI-Expanded)
- LXIV. **Neural network modeling of active devices for use in MMIC design**
Gunes F., Torpi H., Cetiner B.
ARTIFICIAL INTELLIGENCE IN ENGINEERING, vol.13, no.4, pp.385-392, 1999 (SCI-Expanded)
- LXV. **Multidimensional signal-noise neural network model**
Gunes F., Torpi H., Gurgun F.
IEE PROCEEDINGS-CIRCUITS DEVICES AND SYSTEMS, vol.145, no.2, pp.111-117, 1998 (SCI-Expanded)
- LXVI. **Performance Characterization Of A Microwave Transisto**
GÜNEŞ F., GÜNEŞ M., FİDAN M.
IEE PROCEEDINGS-CIRCUITS DEVICES AND SYSTEMS, no.2, pp.113-118, 1994 (SCI-Expanded)

Articles Published in Other Journals

- I. **DESIGN AND REALIZATION OF DUAL BAND MICROSTRIP SIW ANTENNA**
Belen A., Güneş F.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, pp.305-310, 2020 (ESCI)
- II. **DESIGN AND IMPLEMENTATION OF DOPPLER MICROWAVE MOTION SENSOR FOR INDOOR APPLICATION**
Belen M. A., MAHOUTİ P., GÜNEŞ F., Partal H. P.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.36, no.3, pp.849-859, 2018 (ESCI)
- III. **Performance Enhancement Of Microstrip Dipole Antennas Through The Use Of Minkowski Frequency Selective Surfaces Asa Reflector**
GÜLSEREN A. H., Belen M. A., GÜNEŞ F.
IOSR Journal of Electronics and Communication Engineering (IOSR-JECE), no.13, pp.66-69, 2018 (Peer-Reviewed Journal)
- IV. **DIAGNOSING LIVER DISEASES WITH DECISION TREE ALGORITHM**
Borulday M. G., Yeğın E. G., MAHOUTİ P., GÜNEŞ F.
International Journal on "Technical and Physical Problems of Engineering", vol.9, no.33, pp.67-70, 2017 (Peer-Reviewed Journal)
- V. **Differential Evolution Optimization Applied To The Performance Analysis Of A Microwave Transistor**
Yıldırım A., GÜNEŞ F., Belen M. A.
Sigma Journal of Engineering and Natural Sciences Journal, vol.8, no.2, pp.135-144, 2016 (Peer-Reviewed Journal)
- VI. **DESIGN AND SIMULATION OF A TUNABLE BANDPASS FILTER USING VARACTOR DIODES FOR WIRELESS AND RADAR APPLICATIONS**
Belen M. A., Mahouti P., PARTAL H. P., Demirel S., GÜNEŞ F.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.33, no.1, pp.86-93, 2015 (ESCI)
- VII. **DESIGN OF A HIGH EFFICIENCY POWER AMPLIFIER FOR WIRELESS AND RADAR APPLICATIONS**
Mahouti P., Belen M. A., PARTAL H. P., Demirel S., GÜNEŞ F.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.33, no.1, pp.94-101, 2015 (ESCI)
- VIII. **The Multi-Objective Optimization of Non-Uniform Linear Phased Arrays Using the Genetic Algorithm**

- Tokan F., Güneş F.
PROGRESS IN ELECTROMAGNETICS RESEARCH B, vol.17, pp.135-151, 2009 (Scopus)
- IX. **Design of an Ultra-Wideband, Low-Noise Amplifier Using a Single Transistor: a Typical Application Example**
DEMİREL S., GÜNEŞ F., Özkaya U.
PROGRESS IN ELECTROMAGNETICS RESEARCH M, vol.16, pp.371-387, 2009 (Scopus)
- X. **A Generalized Design Procedure for a Microwave Amplifier: a Typical Application Example**
GÜNEŞ F., Bilgin C.
PROGRESS IN ELECTROMAGNETICS RESEARCH M, vol.10, pp.1-19, 2008 (ESCI)
- XI. **Progress in Electromagnetics Research B**
GÜNEŞ F., TÜRKER TOKAN N.
Support Vector Characterisation of the Microstrip Antennas Based on Measurements, vol.5, pp.49-61, 2008 (Peer-Reviewed Journal)
- XII. **Support vector characterization of the microstrip antennas based on measurements**
Tokan N., Güneş F.
Progress In Electromagnetics Research B, vol.5, pp.49-61, 2008 (Scopus)
- XIII. **Artificial Neural Networks Applied to the Design of Microstrip Antennas**
Türker Tokan N., Güneş F., Yıldırım T.
MICROWAVE REVIEW, vol.12, pp.10-14, 2006 (Scopus)
- XIV. **"Soft Computing" Methods in Microwave Active Device Modeling**
Cengiz Y., GÜNEŞ F., Çağlar M.
Turk J Elec Engin, vol.13, pp.1-10, 2005 (Peer-Reviewed Journal)
- XV. **Frequency Conversion Analysis of the Lattice Mixer**
GÜNEŞ F., KAVAS A.
Yıldız Teknik Üniversitesi Dergisi, vol.1, pp.101-114, 1993 (Peer-Reviewed Journal)
- XVI. **An Auto-Balancing Electronic Hybrid for Telephone Lines**
GÜNEŞ F., Güneş M.
Yıldız Üniversitesi Dergisi, vol.2, pp.57-66, 1988 (Peer-Reviewed Journal)
- XVII. **Optimisation of the Performance in Double Side-Band Modulators Using the Resistive Diodes**
GÜNEŞ F.
Yıldız Üniversitesi Dergisi, vol.4, pp.15-26, 1986 (Peer-Reviewed Journal)
- XVIII. **Noise Figure Performance of a Microwave Mixer Diode with the Complete Diode Model**
GÜNEŞ F.
Bulletin of the Technical University of Istanbul, pp.353-355, 1985 (Peer-Reviewed Journal)
- XIX. **Dependence of Mixing Performance of a Schottky Diode on its parasitics**
GÜNEŞ F.
Bulletin of the Technical University of Istanbul, pp.435-446, 1985 (Peer-Reviewed Journal)
- XX. **Variation of the Mixer Diode Loss and Noise with the Junction Capacitance**
GÜNEŞ F.
Yıldız Üniversitesi Dergisi, vol.4, pp.55-60, 1985 (Peer-Reviewed Journal)
- XXI. **Comparison of a Microwave Diodes Frequency Conversion Performances Using the Resistive and Complete Diode Models**
GÜNEŞ F.
ibid, vol.1, pp.47-56, 1985 (Peer-Reviewed Journal)
- XXII. **Conversion Loss and Noise Figure Variations of a Schottky Diode with its Linear Parasitics**
GÜNEŞ F.
ibid, vol.1, pp.61-68, 1985 (Peer-Reviewed Journal)
- XXIII. **Nonlinear Analysis of a Microwave Mixer Diode**
GÜNEŞ F.
Yıldız Üniversitesi Dergisi, vol.3, pp.39-46, 1985 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **REFLECTION CHARACTERISTICS OF MICROSTRIP REFLECTARRAY ANTENNAS VIA THE FULL WAVE EM SIMULATION BASED ARTIFICIAL NEURAL NETWORKS**
Belen A., Güneş F.
in: Academic Studies in Engineering - II, Prof. Dr. Reyhan İrkin, Editor, Gece Kitaplığı, Ankara, pp.143-156, 2020
- II. **Simulation-Driven Modeling and Optimization**
GÜNEŞ F., DEMİREL S., NESİL S.
Springer, London/Berlin , Asdom, 2016
- III. **Design Optimization of LNAs and Reflectarray Antennas Using the Full-Wave Simulation-Based Artificial Intelligence Models with the Novel Metaheuristic Algorithms**
Güneş F., Nesil S., Demirel S.
in: Simulation-Driven Modeling and Optimization, Slawomir Koziel, Leifur Leifsson, Xin-She Yang, Editor, Lange & Springer Antiquariat Berlin , Bergisch Gladbach, pp.261-310, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **Circularly Polarized Corrugated Horn Fed Nonuniform Reflectarray Antenna**
Çalışkan A., Güneş F., Serdar Turk A.
2020 IEEE Ukrainian Microwave Week, UkrMW 2020, Virtual, Kharkiv, Ukraine, 21 - 25 September 2020, pp.213-216
- II. **Gain enhancement of antipodal vivaldi antenna Es-Düzlemlı Vivaldi Anten Tasarımı ve Kazanç İyileştirilmesi**
Belen M. A., EVRANOS İ. Ö., GÜNEŞ F.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- III. **Design and Manufacturing of an X-Band Horn Antenna using 3-D Printing Technology**
Toy Y. C., MAHOUTİ P., GÜNEŞ F., Belen M. A.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.195-198
- IV. **An UWB Vivaldi Antenna with the Enhanced Functionalities Through the use of DGS and Dielectric Lens**
Belen M. A., EVRANOS İ. Ö., GÜNEŞ F., Mahouti P.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.199-201
- V. **Coplanar Stripline-Fed Microstrip Yagi-Uda Antenna for ISM Band Application**
ÇALIŞKAN A., GÜNEŞ F., Belen M. A., Mahouti P., Demirel S.
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016
- VI. **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
- VII. **Microstrip SIW Patch Antenna Design for X band Application**
Belen M. A., GÜNEŞ F., ÇALIŞKAN A., Mahouti P., Demirel S., YILDINM A.
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016
- VIII. **Design and Realization of Dual Band Microstrip Monopole Antenna**
Mahouti P., GÜNEŞ F., Belen M. A., ÇALIŞKAN A., Demirel S.
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016

- IX. **Design of a Multiband Microstrip Patch Antenna with Defected Ground Structures (DGS)**
ÇALIŞKAN A., Belen M. A., MAHOUTİ P., DEMİREL S., GÜNEŞ F.
European Microwave Week (EuMA), Paris, France, 07 September 2015, pp.1387-1390
- X. **Design of Mid Power Amplifier for ISM Band Transmitter Applications**
Belen M. A., MAHOUTİ P., GÜNEŞ F.
8. Mühendislik ve Teknoloji Sempozyumu, Ankara, Turkey, 14 May 2015, pp.125-127
- XI. **Frequency-Selective Surfaces to Enhance Performance of TEM Horn Antenna**
Belen M. A., Sharipov Z., Mahouti P., Demirel S., GÜNEŞ F.
16th International Radar Symposium (IRS), Dresden, Germany, 24 - 26 June 2015, pp.936-941
- XII. **Optimization of Ultra-Wideband LNA using a Single CRLH TL Cell Matching Circuit with Hybrid Genetic-Nelder Mead Algorithm**
KARATAEV T., GÜNEŞ F., Demirel S., Belen M. A.
31st International Review of Progress in Applied Computational Electromagnetics, Virginia, United States Of America, 22 - 26 March 2015
- XIII. **Miniaturization with Dumbbell Shaped Defected Ground Structure for Power Divider Designs Using Sonnet**
Mahouti P., Belen M. A., PARTAL H. P., Demirel S., GÜNEŞ F.
31st International Review of Progress in Applied Computational Electromagnetics, Virginia, United States Of America, 22 - 26 March 2015
- XIV. **Performance Characterization of a Microwave Transistor using Firefly Algorithm**
Belen M. A., Alıcı M., Çor A., GÜNEŞ F.
Symposium of Electrical, Electronics and Computer Engineering (ELECO), Bursa, Turkey, 27 November 2014, pp.491-493
- XV. **Efficient Scattering Parameter Modeling of a Microwave Transistor Using Generalized Regression Neural Network**
Mahouti P., GÜNEŞ F., Demirel S., ULUSLU A., Belen M. A.
20th International Conference on Microwaves, Radar, and Wireless Communication (MIKON), Gdansk, Poland, 16 - 18 June 2014
- XVI. **Reflection phase analysis based on multilayer perceptron network model for unit element design of a dual-layered microstrip reflectarray**
NESİL S., GÜNEŞ F., Demirel S.
2014 20th International Conference on Microwaves, Radar and Wireless Communications, MIKON 2014, Gdansk, Poland, 16 - 18 June 2014
- XVII. **A Deterministic Approach for Designing Flat Gain Ultra-Wideband LNAs**
Belen M. A., GÜNEŞ F., Demirel S., Mahouti P.
20th International Conference on Microwaves, Radar, and Wireless Communication (MIKON), Gdansk, Poland, 16 - 18 June 2014
- XVIII. **Design Optimization of the Exponentially Tapered Microstrip Impedance Matching Sections Using a Cost Effective 3-D-SONNET-based SVRM with the Particle Swarm Intelligence**
Belen M. A., GÜNEŞ F., DEMİREL S., KESKİN A. K.
Progress In Electromagnetics Research Symposium Proceedings, Stockholm, Sweden, 12 August 2013, pp.1490-1494
- XIX. **Design Optimization of Microstrip Matching Circuits Using a Honey Bee Mating Algorithm Subject to the Transistor's Potential Performance**
Mahouti P., Demirel S., GÜNEŞ F.
Progress In Electromagnetics Research Symposium, Stockholm, Sweden, 12 - 15 August 2013, pp.1890-1893
- XX. **Space Gravity Optimization Applied to the Feasible Design Target Space Required for a Wide-band Front-end Amplifier**
Kilmc N., Mahouti P., GÜNEŞ F.
Progress In Electromagnetics Research Symposium, Stockholm, Sweden, 12 - 15 August 2013, pp.1495-1499
- XXI. **Honey-bees mating algorithm applied to feasible design target space for a wide-band front-end**

amplifier

Mahouti P., Güneç F., Demirel S.

2012 IEEE International Conference on Ultra-Wideband, ICUWB 2012, Syracuse, NY, United States Of America, 17 - 20 September 2012, pp.251-255

- XXII. **Particle swarm intelligence use in feasible design target space of a microwave transistor for a wide band output stage requirements**
DEMİREL S., GÜNEŞ F., TORPİ H.
2012 IEEE International Conference on Ultra-Wideband, Syracuse, NY, USA, United States Of America, 17 - 20 September 2012
- XXIII. **Genetic Algorithm Applied to Microstrip Implementation of Matching Circuits for a UWB Low-Noise Amplifier**
GÜNEŞ F.
2012 IEEE International Conference on Ultra-Wideband, 01 September 2012
- XXIV. **Performance Sensitivities of a Microstrip Amplifier Using Adjoint Network Method**
GÜNEŞ F.
2012 IEEE International Conference on Ultra-Wideband, 01 September 2012
- XXV. **Analysis and Design of X-Band Reflectarray Antenna using 3-D EM-Based Artificial Neural Network Model**
GÜNEŞ F.
2012 IEEE International Conference on Ultra-Wideband, 01 September 2012
- XXVI. **Phase Characterization of a Reflectarray Unit Cell with Minkowski Shape Radiating Element Using Multilayer Perceptron Neural Network**
GÜNEŞ F., NESİL S., Özkaya U.
ELECO 2011, 7th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 05 December 2011, pp.1-4
- XXVII. **Gain Sensitivities of a Microwave Amplifier With Respect To The Microstrip Parameters**
DEMİREL S., GÜNEŞ F.
URSI, Ankara, Turkey, 03 October 2011, pp.5-8
- XXVIII. **Generalized Regression Neural Network Based Phase Characterization Of A Reflectarray Employing Minkowski Element Of Variable Size**
NESİL S., GÜNEŞ F., Özkaya U., Türetken B.
URSI 2011, Ankara, Turkey, 03 October 2011, pp.1-4
- XXIX. **A Microstrip Amplifier Design Subject To The Transistor Performance Limitations**
GÜNEŞ F., DEMİREL S.
URSI 2011, Ankara, Turkey, 03 October 2011, pp.9-12
- XXX. **Generalized Regression Neural Network –Based Efficient Noise Modeling for Microwave Transistors**
ULUSLU A., GÜNEŞ F., Özkaya U.
INISTA 2011, İstanbul, Turkey, 03 January 2011, pp.1-4
- XXXI. **Bir Mikrodalga Transistorunun İşaret Parametrelerinin Bulanık Mantık Temelli Adaptif Yapay Sinir Ağı ile Modellenmesi**
Cengiz Y., GÜNEŞ F.
URSI 2010, Güzelyurt, Cyprus (Kkct), 25 August 2010, pp.1-4
- XXXII. **Bir Mikrodalga Transistörün İşaret – Gürültü Parçacık Sürü Optimizasyon Temelli Yapay Sinir Ağı Modeli**
Satıkbuğa S., Özkaya U., GÜNEŞ F.
V. URSI-Türkiye'2010 Bilimsel Kongresi, Güzelyurt, Cyprus (Kkct), 25 August 2010, pp.1-4
- XXXIII. **Hacim Tarama Radarları :çin Bir Yüksek Kazançlı Dizi Anten Tasarımı**
TOKAN F., GÜNEŞ F., Türetken B., Sürmeli K.
URSI 2010, Güzelyurt, Cyprus (Kkct), 25 August 2010, pp.1-4
- XXXIV. **Mikrodalga FET Küçük – İşaret Modelinin Optimum Saçılma Parametreleri için Parçacık Sürü Optimizasyonu Yöntemi ile Elde Edilmesi**

- Özkaya U., GÜNEŞ F.
V. URSI-Türkiye'2010 Bilimsel Kongresi, Güzelyurt, Cyprus (Kktc), 25 August 2010, pp.1-4
- XXXV. **Design of the Two-Stage Low-Noise Amplifiers Subject to Performance Limitations of the Active Devices**
DEMİREL S., GÜNEŞ F.
Progress in Electromagnetics Research Symposium (PIERS), 01 August 2009
- XXXVI. **Particle Swarm Intelligence Applied to Design Microwave Amplifier for the Maximum Gain Constrained by the Minimum Noise over the Available Bandwidth**
DEMİREL S., GÜNEŞ F., ÖZKAYA U.
01 March 2009
- XXXVII. **Support vector design of the microstrip antenna Mikroşerit antenlerin destek vektör tasarımı**
Tokan N., GÜNEŞ F.
2008 IEEE 16th Signal Processing, Communication and Applications Conference, SIU, Aydın, Turkey, 20 - 22 April 2008
- XXXVIII. **Comparative Performance of Genetically Initialized Pattern Search Optimization Versus Particle Swarm Optimization Algorithm of Adaptive Beam Forming with the Linear Antenna Array Geometry**
TOKAN F., Özkaya U., GÜNEŞ F.
Progress In Electromagnetics Research Symposium, Cambridge, United States Of America, 02 July 2008, pp.1-4
- XXXIX. **Analysis and Synthesis of the Microstrip Lines by Support Vector Regressors**
TÜRKER TOKAN N., GÜNEŞ F.
Progress In Electromagnetics Research Symposium, Cambridge, United States Of America, 02 July 2008, pp.1-4
- XL. **Support Vector Analysis of the Rectangular Patch Antenna**
TÜRKER TOKAN N., GÜNEŞ F.
Progress In Electromagnetics Research Symposium, Cambridge, United States Of America, 02 July 2008, pp.1-4
- XLI. **Mikroşerit Antenlerin Destek Vektör Tasarımı**
TÜRKER TOKAN N., Güneş F.
16. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, 01 April 2008
- XLII. **Support Vector Machines for Use in the Device Modeling**
TÜRKER TOKAN N., GÜNEŞ F.
Progress In Electromagnetics Research Symposium (PIERS 2007), Prag, Czech Republic, 27 August 2007, pp.1-4
- XLIII. **A Neural Network Model for Phased Antenna Arrays**
TOKAN F., GÜNEŞ F., Bardak B.
Progress In Electromagnetics Research Symposium (PIERS 2007), Prag, Czech Republic, 27 August 2007, pp.1-4
- XLIV. **A Novel Neural Smith Chart for Using Transmission Line Impedance Transforming and Impedance Matching**
Çağlar M. F., GÜNEŞ F.
Progress In Electromagnetics Research Symposium (PIERS 2007), Prag, Czech Republic, 27 August 2007, pp.1-4
- XLV. **Gain Gradients Applied to Design of the Terminations of the (Noise, Gain, Input VSWR) Triplets for a Microwave Transistor**
DEMİREL S., GÜNEŞ F.
Progress In Electromagnetics Research Symposium (PIERS 2007), Prag, Czech Republic, 27 August 2007, pp.1-4
- XLVI. **Heuristic Approach to Optimization of a Microwave Amplifier**
Cengiz Y., GÜNEŞ F., Göksu H.
IEEE AP-S International Symposium& USNC/URSI National Radio Meeting& AMEREM Meeting, New Mexico, United States Of America, 09 July 2006, pp.803
- XLVII. **Artificial Neural Design of the Microstrip Antennas**
TÜRKER TOKAN N., GÜNEŞ F., YILDIRIM T.
4th International Conference on Electrical and Electronics Engineering (ELECO'2005), 7 - 11 December 2005
- XLVIII. **RF/Mikrodalga Düzlemsel İletim Hatlarının Yapay Sinir Ağı ile Analiz ve Sentezi**
TÜRKER TOKAN N., Güneş F.
URSI 2004 İkinci Ulusal Kongresi, 01 September 2004

- XLIX. Mikroşerit Hatların Yapay Sinir Ağı Modeli**
TÜRKER TOKAN N., Güneş F.
12. Sinyal İşleme Ve İletişim Uygulamaları Kurultayı, 01 April 2004
- L. An artificial neural model of the microstrip lines**
TÜRKER TOKAN N., GÜNEŞ F.
Signal Processing and Communications Applications Conference, 28 - 30 April 2004
- LI. Aktif Mikrodalga Elemanlarının Yapay Nöron ağı İşaret Gürürültü Modeli yardımıyla Geniş Bandlı Performans Analizi**
TORPİ H., Çetiner B. A., GÜNEŞ F.
Elektrik-Elektronik Bilgisayar Mühendisliği 8.Ulusal Kongresi, Turkey, 6 - 12 September 1999
- LII. Signal Noise NN for use in Optimisation of Transistor Performance**
GÜNEŞ F., Bedri Artuğ Ç., TORPİ H.
ECCTD'99, 29 August - 02 September 1999
- LIII. Performance Optimisation of Microwave Transistor using Signal Noise NN**
GÜNEŞ F., TORPİ H., CETINER B. A.
PIERS'99, 22 - 26 March 1999
- LIV. Signal-noise neural network for use in optimisation of transistor performance**
CETINER B. A., GÜNEŞ F., TORPİ H.
6th IEEE International Conference on Electronics, Circuits and Systems, ICECS 1999, Pafos, Cyprus (Gkry), 5 - 08 September 1999, vol.2, pp.1119-1122
- LV. A NN Approach for the Performance Data Sheets of the Microwave Transistors**
GÜNEŞ F., TORPİ H., CETINER B. A.
PIERS'98, 13 - 17 July 1998
- LVI. Neural Network modelling of Active devices for use in MMIC Design An Application Example**
GÜNEŞ F., TORPİ H., Çetiner B. A.
International ICSC Symposium on Engineering of Intelligence Systems, 11 - 13 February 1998
- LVII. Neural Network Approach for the Active Device Characterisation**
GÜNEŞ F., TORPİ H., CETINER B. A.
European Conference on Circuit Theory and Design ECCTD'97, 30 August - 03 September 1997
- LVIII. Neural Network approach for the Characterisation of the active Microwave Devices**
TORPİ H., GÜNEŞ F., GURGEN F.
Mathematical and Computational applications, Manisa, Turkey, 19 - 21 September 1996, vol.1, pp.1113-1118
- LIX. Efficient Model Parameter Extraction Using NN for Active Microwave Design**
GÜNEŞ F., TORPİ H., GURGEN F.
Progress in Electromagnetics Research PIERS'96, 8 - 12 July 1996
- LX. Multi Bias Configuration Neural Network Models for Active Microwave Devices**
GÜNEŞ F., TORPİ H., GURGEN F.
International Conference on Telecommunications ICT'96, 13 - 17 April 1996
- LXI. Aktif mikrodalga elemanlarının Yapay Sinir Ağı simülâtörleri**
TORPİ H., GÜNEŞ F., GURGEN F.
Elektrik Müh. 6.Ulusal Kongresi, Turkey, 11 - 17 September 1995
- LXII. Unified Small Signal Noise Neural Network for Active Microwave Devices**
GÜNEŞ F., GURGEN F., TORPİ H.
European conferece on Circuit Theory and design ECCTD'95, 27 August - 31 March 1995
- LXIII. NeuralNetwork Simulation of the Signal and Noise Parameters**
GÜNEŞ F., GURGEN F., TORPİ H.
Progress in Electromagnetic Research symposium PIERS'95, 24 - 28 July 1995
- LXIV. Sinyal Gürültü Parametrelerinin Yapay Nöron Ağısımülasyonu**
TORPİ H., GÜNEŞ F., GURGEN F.
Sinyal İşleme ve Uygulamaları konferansı SİU'95, Turkey, 26 - 28 April 1995
- LXV. NOISE-FIGURE LIMITATIONS AND INPUT MATCH CONDITIONS OF THE LATTICE MIXERS**

- GUNES F., MAKSUDI M.
7th Mediterranean Electrotechnical Conference (MeleCON 94), Antalya, Turkey, 12 - 14 April 1994, pp.492-495
- LXVI. **Bir İki kapılı İşaret ve Gürültü özelliklerine Geri Besleme Etkisi ve Bilgisayar Destekli Simülasyonu**
GÜNEŞ F., TORPİ H.
III.Elektromekanik Sempozyumu, Turkey, 1 - 05 December 1993
- LXVII. **Uydurulmuş Düşük gürültülü Kuvvetlendiriciler için bir Grafik Tasarım Yöntemi**
GÜNEŞ F., TORPİ H.
Elektrik Müh. 5. Ulusal Kongresi, Turkey, 13 - 18 September 1993
- LXVIII. **Aktif Mikrodalga Elemanlarının Yapay Nöron ağı İşaret-Gürültü Modeli yardımıyla Geniş Bandlı Performans Analizi.**
TORPİ H., GÜNEŞ F., Çetiner B. A.
ELEKTRİK-ELEKTRONİK-BİLGİSAYAR MÜHENDİSLİĞİ 8. ULUSAL KONGRESİ, Bursa, Turkey, 06 September 0099, pp.1-5
- LXIX. **3-D CST microwave studio-based neural network characterization and Particle Swarm Optimization of Minkowski reflectarray in use microspacecraft applications**
Güneş F., DEMİREL S., Nesil S.
Istanbul, Turkey, June 12-14, 2013, pp.451-455.
- LXX. **Phase Characterization of X-band Minkowski Reflectarray Antennas Using 3-D CST Microwave Studio-based Neural Network Model Included Dielectric Properties**
Nesil S., Güneş F., DEMİREL S.
Stockholm, Sweden, August 12-15, 2013, pp. 1811-1815.
- LXXI. **Gain Gradients Applied to Design of the Potential Performance Terminations for a Microwave Transistor**
DEMİREL S., Güneş F.
9-14 July 2006, Albuquerque, New Mexico, USA.
- LXXII. **FET Modeling for maximum transducer power gain using particle swarm optimization**
Özkaya U., Güneş F., DEMİREL S.
Trabzon, Turkey, June 29-July 1, 2009, pp 452-455.
- LXXIII. **Yansıtıcı Dizi Antenlerde Geometri ve Taban Özelliklerinin Optimizasyonu için Yansıtma Karakteristiğinin Çok-Katmanlı Algılayıcı Yapay Sinir Ağı ile Modellenmesi**
Nesil S., Güneş F., DEMİREL S.
International Union of Radio Science

Supported Projects

- GÜNEŞ F., MAHOUTİ P., TORPİ H., BELEN M. A., Project Supported by Higher Education Institutions, MODERN METAMATERİYAL MİKRODALGA AYGIT VE DEVRELERİN TASARIM VE ANALİZİ, 2015 - 2018
- GÜNEŞ F., Project Supported by Higher Education Institutions, Uniform Olmayan Mikroşerit Transmisyon Hatlarıyla Mikrodalga Kuvvetlendiricisi Tasarımı, 2014 - 2017
- GÜNEŞ F., Project Supported by Higher Education Institutions, Mikrodalga duyar uygulamalarına yönelik meta-materyal temelli yüksek performanslı mikrodalga devre tasarımı, 2015 - 2016
- Demirel S., Güneş F., Industrial Thesis Project, Yüksek performanslı Mikrodalga Hareket sensörü gerçekleştirilmesi, 2013 - 2015
- GÜNEŞ F., Project Supported by Higher Education Institutions, Yansıtıcı Dizi Anten Analiz Ve Sentezi, 2012 - 2014
- GÜNEŞ F., Project Supported by Higher Education Institutions, Mikroşerit Hattın Moment Metodu ile Tam Dalga Analizi, 2012 - 2013
- GÜNEŞ F., TUBİTAK Project, İklimsel Yağmur Kaynaklı Uydu Haberleşmesi Zayıflatma Haritalarının Çıkartılması, 1996 - 1998
- GÜNEŞ F., Other International Funding Programs, Lineer ve Lineer Olmayan Mikrodalga Haberleşme Devrelerinin Bilgisayar Destekli Analizi, Optimizasyonu ve Tasarımı, 1992 - 1995

Metrics

Publication: 175

Citation (WoS): 516

Citation (Scopus): 830

H-Index (WoS): 14

H-Index (Scopus): 18