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

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

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

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

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

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

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

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

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

Güneş F., Kaskad Bağlı - Kapılının Kazanç Duyarlılık Analizi Ve Dağılmış Paramrtreli 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 Karekterizasyonu, 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 Konfigürasyonda 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 Konfigürasyonda 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., Adaptif Dengelemeli Elektronik Hibrid, Postgraduate, N.Yüngül(Student), 1986

GÜNEŞ F., Mikrodalga Karıştırıcılarının Durum Denklemleriyle Karakterize Edilmesi, Postgraduate, A.Bülent(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.
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- 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**
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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.
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- XLIII. **A competitive approach to neural device modeling support vector machines**
Türker Tokan N., Güneş F.
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- 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.
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- 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.
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- XLIX. **KNOWLEDGE BASED SUPPORT VECTOR SYNTHESIS OF THE MICROSTRIP LINES**

Türker Tokan N., Güneş F.

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- L. **Particle swarm intelligence applied to determination of the feasible design target for a low-noise amplifier**
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- L.I. **A Novel Neural Smith Chart for Use in Microwave Circuitry**
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- L.II. **Support vector design of the microstrip lines**
Güneş F., Tokan N., Gürgeç F.
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- 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.
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- L.IV. **Signal-noise support vector model of a microwave transistor**
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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**
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- L.VI. **Artificial Neural Design of Microstrip Antennas**
Türker Tokan N., Güneş F., Yıldırım T.
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- L.VII. **Design of a broadband microwave amplifier using neural performance data sheets and very fast simulated reannealing**
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- L.VIII. **Neural unit element application for in use microwave circuitry**
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- L.IX. **Artificial neural networks in their simplest forms for analysis and synthesis of RF/microwave planar transmission lines**
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- 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**
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- L.XII. **Gain-bandwidth limitations of microwave transistor**

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- 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.
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- LXIV. **Neural network modeling of active devices for use in MMIC design**
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- LXV. **Multidimensional signal-noise neural network model**
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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)
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