

## Assoc. Prof. Peyman MAHOUTI

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: O-3071-2017

ScopusID: 55516241200

Yoksis Researcher ID: 302004

### Education Information

Doctorate, Yildiz Technical University, Fen, Turkey 2013 - 2016

Postgraduate, Yildiz Technical University, Fen, Turkey 2011 - 2012

Undergraduate, Yildiz Technical University, Elektrik Elektronik, Turkey 2007 - 2011

### Foreign Languages

English, B2 Upper Intermediate

Persian, C1 Advanced

### Dissertations

Doctorate, Novel design methods for high performance filtenna and lna design for microwave sensor applications, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitü, Elektronik Ve Haberleşme, 2016

Postgraduate, Honey bee mating algorithm applied to design low noise microstrip amplifier, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitü, Elektronik Ve Haberleşme, 2012

### Research Areas

Electrical and Electronics Engineering, Electromagnetic, Modified Earth Planar Structures, Electromagnetic Waves, Antennas and Propagation, Passive Microwave Circuits, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Applied Sciences, Aviation Electronics, 2022 - Continues

Lecturer PhD, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication

Engineering, 2016 - 2019

- I. **Variable data structures and customized deep learning surrogates for computationally efficient and reliable characterization of buried objects**  
Yurt R., TORPİ H., KIZILAY A., Koziel S., MAHOUTİ P.  
Scientific reports, vol.14, no.1, pp.14898, 2024 (SCI-Expanded)
- II. **Detection and classification of human respiration under building debris model using VHF/UHF waves**  
Niyaz Ö., Tüylü T., Mahouti P., Erkmén B., Tokan N. T.  
NEURAL COMPUTING AND APPLICATIONS, vol.36, pp.1-17, 2024 (SCI-Expanded)
- III. **Data driven surrogate modeling of horn antennas for optimal determination of radiation pattern and size using deep learning**  
PİLTAN O. C., KIZILAY A., Belén M. A., MAHOUTİ P.  
Microwave and Optical Technology Letters, vol.66, no.1, 2024 (SCI-Expanded)
- IV. **Knowledge-Based Methodology of CPW-Fed Open Stub Loaded C-Shaped Microstrip Antenna by Surrogate-Based Modeling**  
Gocén C., Akdag I., Mahouti T., Belén M. A., Palandöken M., MAHOUTİ P.  
International Journal of RF and Microwave Computer-Aided Engineering, vol.2024, 2024 (SCI-Expanded)
- V. **Deep-learning-based precise characterization of microwave transistors using fully-automated regression surrogates**  
Calık N., GÜNEŞ F., Koziel S., Pietrenko-Dabrowska A., Belén M. A., MAHOUTİ P.  
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- VI. **Optimal design of transmitarray antennas via low-cost surrogate modelling**  
Belén M. A., ÇALIŞKAN A., Koziel S., Pietrenko-Dabrowska A., MAHOUTİ P.  
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- VII. **Buried object characterization by data-driven surrogates and regression-enabled hyperbolic signature extraction**  
Yurt R., TORPİ H., KIZILAY A., Koziel S., Pietrenko-Dabrowska A., MAHOUTİ P.  
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- VIII. **Design and Realization of Broadband Active Inductor Based Band Pass Filter**  
Belén A., Belén M. A., Palandöken M., Mahouti P., Tari Ö.  
CHINESE JOURNAL OF ELECTRONICS, vol.32, no.4, pp.731-735, 2023 (SCI-Expanded)
- IX. **Data-Driven Surrogate-Assisted Optimization of Metamaterial-Based Filtenna Using Deep Learning**  
MAHOUTİ P., Belén A., Tari O., Belén M. A., KARAHAN S., Koziel S.  
Electronics (Switzerland), vol.12, no.7, 2023 (SCI-Expanded)
- X. **A novel near field radiation shaping technique by using data driven surrogate based optimization for nondestructive hyperthermia**  
Unal M., Mahouti P., Turk A. S.  
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.36, no.2, 2023 (SCI-Expanded)
- XI. **Reliable Computationally Efficient Behavioral Modeling of Microwave Passives Using Deep Learning Surrogates in Confined Domains**  
Koziel S., Calık N., MAHOUTİ P., Belén M. A.  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.71, no.3, pp.956-968, 2023 (SCI-Expanded)
- XII. **Data Driven Surrogate Modeling of Phase Array Antennas Using Deep Learning for Millimetric Band Applications**  
Tulum M. A., TÜRK A. S., MAHOUTİ P.  
IEEE Access, vol.11, pp.114415-114423, 2023 (SCI-Expanded)
- XIII. **Rapid Design of 3D Reflectarray Antennas by Inverse Surrogate Modeling and Regularization**  
Koziel S., Belén M. A., ÇALIŞKAN A., MAHOUTİ P.  
IEEE Access, vol.11, pp.24175-24184, 2023 (SCI-Expanded)
- XIV. **Buried Object Characterization Using Ground Penetrating Radar Assisted by Data-Driven Surrogate-Models**

- Yurt R., TORPİ H., MAHOUTİ P., KIZILAY A., Koziel S.  
IEEE Access, vol.11, pp.13309-13323, 2023 (SCI-Expanded)
- XV. **Low-Cost and Highly-Accurate Behavioral Modeling of Antenna Structures by Means of Knowledge-Based Domain-Constrained Deep Learning Surrogates**  
Koziel S., Calik N., Mahouti P., Belen M. A.  
IEEE Transactions on Antennas and Propagation, vol.71, no.1, pp.105-118, 2023 (SCI-Expanded)
- XVI. **Computationally Efficient Surrogate-Assisted Design of Pyramidal-Shaped 3D Reflectarray Antennas**  
MAHOUTİ P., Belen M. A., Calik N., Koziel S.  
IEEE Transactions on Antennas and Propagation, vol.70, no.11, pp.10777-10786, 2022 (SCI-Expanded)
- XVII. **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)
- XVIII. **Accurate Modeling of Antenna Structures by Means of Domain Confinement and Pyramidal Deep Neural Networks**  
Koziel S., ÇALIK N., MAHOUTİ P., Belen M. A.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.70, no.3, pp.2174-2188, 2022 (SCI-Expanded)
- XIX. **Ensemble-based surrogate modeling of microwave antennas using XGBoost algorithm**  
Kalayci H., Ayten U. E., Mahouti P.  
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.35, no.2, 2022 (SCI-Expanded)
- XX. **Surrogate-Based Design Optimization of Multi-Band Antenna**  
Belen A., Tari O., MAHOUTİ P., Belen M. A., ÇALIŞKAN A.  
Applied Computational Electromagnetics Society Journal, vol.37, no.1, pp.34-40, 2022 (SCI-Expanded)
- XXI. **Optimal characterization of a microwave transistor using grey wolf algorithms**  
Kiani F., Seyyedabbasi A., MAHOUTİ P.  
ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING, vol.109, no.3, pp.599-609, 2021 (SCI-Expanded)
- XXII. **Design Optimization of Ultra-Wideband Vivaldi Antenna using Artificial Intelligence**  
Mahouti P., Klzllay A., Tari O., Belen A., Belen M. A., ÇALIŞKAN A.  
Applied Computational Electromagnetics Society Journal, vol.36, no.12, pp.1594-1601, 2021 (SCI-Expanded)
- XXIII. **Microstrip leaky wave antenna for wide range of beam scanning in X band**  
Belen A., GÜNEŞ F., Belen M. A., MAHOUTİ P.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.63, no.10, pp.2646-2650, 2021 (SCI-Expanded)
- XXIV. **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)
- XXV. **Physical parameter-based data-driven modeling of small signal parameters of a metal-semiconductor field-effect transistor**  
Satilmis G., GÜNEŞ F., MAHOUTİ P.  
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.34, no.3, 2021 (SCI-Expanded)
- XXVI. **Gain Enhancement of a Traditional Horn Antenna using 3D Printed Square-Shaped Multi-layer Dielectric Lens for X-band Applications**  
Belen A., MAHOUTİ P., GÜNEŞ F., Tari O.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.36, no.2, pp.132-138, 2021 (SCI-Expanded)
- XXVII. **Improved Modeling of Microwave Structures Using Performance-Driven Fully-Connected Regression Surrogate**  
Koziel S., MAHOUTİ P., ÇALIK N., Belen M. A., Szczepanski S.  
IEEE ACCESS, vol.9, pp.71470-71481, 2021 (SCI-Expanded)

- XXVIII. **Accurate Modeling of Frequency Selective Surfaces Using Fully-Connected Regression Model With Automated Architecture Determination and Parameter Selection Based on Bayesian Optimization**  
ÇALIK N., Belen M. A., MAHOUTI P., Koziel S.  
IEEE ACCESS, vol.9, pp.38396-38410, 2021 (SCI-Expanded)
- XXIX. **On Decomposition-Based Surrogate-Assisted Optimization of Leaky Wave Antenna Input Characteristics for Beam Scanning Applications**  
Belen M. A., Mahouti P., Koziel S., Çalışkan A., Szczepanski S.  
IEEE ACCESS, vol.9, pp.161318-161325, 2021 (SCI-Expanded)
- XXX. **3D printed wideband flat gain multilayer nonuniform reflectarray antenna for X-band applications**  
Belen A., GÜNEŞ F., Belen M. A., MAHOUTI P.  
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.33, no.6, 2020 (SCI-Expanded)
- XXXI. **Artificial neural network application for novel 3D printed nonuniform ceramic reflectarray antenna**  
Mahouti M., KUŞKONMAZ N., Mahouti P., Belen M. A., Palandoken .  
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.33, no.6, 2020 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **Design and realization of novel frequency selective surface loaded dielectric resonator antenna via 3D printing technology**  
Belen M. A., MAHOUTI P., Palandoken M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.5, pp.2004-2013, 2020 (SCI-Expanded)
- XXXIV. **Application of artificial intelligence algorithms on modeling of reflection phase characteristics of a nonuniform reflectarray element**  
MAHOUTI P.  
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.33, no.2, 2020 (SCI-Expanded)
- XXXV. **Deep learning base modified MLP model for precise scattering parameter prediction of capacitive feed antenna**  
ÇALIK N., BELEN M. A., Mahouti P.  
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.33, no.2, 2020 (SCI-Expanded)
- XXXVI. **Design of nonuniform substrate dielectric lens antennas using 3D printing technology**  
Belen M. A., MAHOUTI P.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.2, pp.756-762, 2020 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **Pareto Optimal Characterization of a Microwave Transistor**  
Güneş F., Uluslu A., Mahouti P.  
IEEE ACCESS, vol.8, pp.47900-47913, 2020 (SCI-Expanded)
- XXXIX. **Active Inductor Design for Reconfigurable Bandpass Microstrip Filter Applications**  
Belen M. A., MAHOUTI P.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.34, no.11, pp.1764-1768, 2019 (SCI-Expanded)
- XL. **Design optimization of a pattern reconfigurable microstrip antenna using differential evolution and**

### **3D EM simulation-based neural network model**

MAHOUTI P.

INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.29, no.8, 2019 (SCI-Expanded)

- XLII. **Realization of Dielectric Sheets for Gain Improvement of Ultra-Wideband Horn Antennas Using 3D Printer Technology**  
Belen M. A., MAHOUTI P.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.34, no.5, pp.760-764, 2019 (SCI-Expanded)
- XLIII. **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)
- XLIV. **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)
- XLV. **Design and realization of quasi Yagi antenna for indoor application with 3D printing technology**  
Belen M. A., MAHOUTI P.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.9, pp.2177-2181, 2018 (SCI-Expanded)
- XLVI. **UWB Gain Enhancement of Horn Antennas Using Miniaturized Frequency Selective Surface**  
Belen M. A., GÜNEŞ F., MAHOUTI P., Belen A.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.33, no.9, pp.997-1002, 2018 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **Modeling and Realization of Cavity-Backed Dual Band SIW Antenna**  
Belen M. A., Mahouti P., Çalışkan A., Belen A.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.32, no.11, pp.974-978, 2017 (SCI-Expanded)
- LI. **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)
- LII. **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)
- LIII. **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)

LIII. **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)

LIV. **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)

LV. **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)

LVI. **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)

## **Articles Published in Other Journals**

I. **ISM Band Haberleşme Uygulamaları İçin Origami Anten Tasarımı**

Çalışkan A., Kızılay A., Belen M. A., Mahouti P.

European Journal of Science and Technology, vol.2019, no.16, pp.785-791, 2019 (Peer-Reviewed Journal)

II. **DESIGN AND IMPLEMENTATION OF DOPPLER MICROWAVE MOTION SENSOR FOR INDOOR APPLICATION**

Belen M. A., MAHOUTI 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. **DIAGNOSING LIVER DISEASES WITH DECISION TREE ALGORITHM**

Borulday M. G., Yeğin E. G., MAHOUTI P., GÜNEŞ F.

International Journal on "Technical and Physical Problems of Engineering", vol.9, no.33, pp.67-70, 2017 (Peer-Reviewed Journal)

IV. **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)

V. **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)

## **Books & Book Chapters**

I. **DATA DRIVEN SURROGATE MODELLING ASSISTED OPTIMIZATION OF MICROSTRIP MONOPOLE**

## **ANTENNA**

MAHOUTI P., BELEN M. A., TARI İLGİN Ö.

in: Research & Reviews in Engineering December 2022, Coşkun Özalp, Editor, gece kitaplığı, pp.71-80, 2022

### **II. DATA DRIVEN SURROGATE MODELLING APPROACH FOR ACCURATE MODELLING OF REFLECTARRAY UNIT ELEMENTS**

MAHOUTI P.

in: Research & Reviews in Engineering December 2022, Coşkun Özalp, Editor, gece kitaplığı, pp.215-226, 2022

### **III. DESIGN OPTIMIZATION OF DISCONE ANTENNA USING META-HEURISTIC OPTIMIZATION**

KARAHAN S., MAHOUTI P.

in: Current Research in Engineering - June 2022, Selahattin Bardak, Numan Yalçın, Ömer, Yurdakul, Editor, gece kitaplığı, pp.113-124, 2022

### **IV. Chapter 7- Boosting Based Modelling of Frequency Selective Surfaces**

Kalaycı H., MAHOUTI P., BELEN M. A., AYTEN U. E.

in: RESEARCH & REVIEWS IN ENGINEERING - II, Prof. Dr. Banu NERGİS, Assoc. Prof. Dr. Selahattin BARDAK, Assoc. Prof. Dr. Mahmut KAYAR, Dr. Arif Furkan MENDİ, Editor, Gece Kitaplığı / Gece Publishing, Ankara, pp.105-129, 2021

### **V. Boosting - Based modelling of frequency selective surfaces**

MAHOUTI P., AYTEN U. E., BELEN M. A., KALAYCI H.

in: Research & reviews in engineering - II, banu nergis, selahattin bardak, mahmut kayar, arif furkan mendi, Editor, gece kitaplığı, pp.105-129, 2021

### **VI. computationally efficient design optimization of microstrip antennas**

MAHOUTI P., BELEN M. A., KARAHAN S.

in: Research & Reviews in Engineering - II, banu nergis, selahattin bardak, mahmut kayar, arif furkan mendi, Editor, gece kitaplığı, pp.89-104, 2021

### **VII. YAPAY SİNİR AĞI KULLANILARAK DISCONE ANTEN TASARIMI**

sevinç a. a., MAHOUTI P., BELEN M. A.

in: Mühendislik Alanında Teori ve Araştırmalar, prof.dr. adnan hayaloğlu, Editor, gece kitaplığı, Ankara, pp.307-324, 2020

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. Design of Microwave Frequency Selective Surface Operating in X-band Using Ensemble Learning Algorithm Ensemble Learning Algoritması Kullanılarak X-Ku Bant Aralığında Çalışan Mikrodalga Frekans Seçici Yüzey Tasarımı**

Filiz B., Demirel E., Öz E. N., MAHOUTI P., Kıyık H., Belen M. A.

32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024

### **II. Vivaldi Antenna Design With Frequency Selective Surfaces for GPR Applications**

Mahouti P., Kızılay A., Razevig V. V., Belen M. A., Piltan O. C.

10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023

### **III. Surrogate Based Design Optimization of Multi-Band Antenna**

Tari O., Belen A., Mahouti P., Belen M. A.

International Symposium of the Applied-Computational-Electromagnetics-Society (ACES), ELECTR NETWORK, 1 - 05 August 2021

### **IV. Design Optimization of Ultra Wide Band Vivaldi Antenna Using Artificial Intelligence**

MAHOUTI P., KIZILAY A., Tari O., Belen A., Belen M. A.

International Symposium of the Applied-Computational-Electromagnetics-Society (ACES), ELECTR NETWORK, 1 - 05 August 2021

### **V. 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

- VI. **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
- VII. **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
- 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 Dielectric Lens Loaded Double Ridged Horn Antenna for Millimetre Wave Application**  
Demirel S., ÇALIŞKAN A., Mersin M. T., TÜRK A. S., Belen M. A., Mahouti P.  
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016
- X. **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
- XI. **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
- XII. **Design of a Multiband Microstrip Patch Antenna with Defected Ground Structures (DGS)**  
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## **Metrics**

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