

Prof. Bekir Sıddık Binboğa YARMAN

Personal Information

Office Phone: [+90 212 473 7070](tel:+902124737070) Extension: 17901

Office Phone: [+90 212 473 7053](tel:+902124737053)

Fax Phone: [+90 212 473 7064](tel:+902124737064)

Email: yarman@istanbul.edu.tr

Web: <https://www.siddikyarman.com>

Address: İstanbul üniversitesi Mühendislik Fakültesi Elektrik-Elektronik Mühendisliği Bölüm Başkanlığı Avcılar Kampusu Avcılar/İstanbul

Education Information

Doctorate, Cornell University, Elektrik Mühendisliği-Matematik, United States Of America 1976 - 1982

Postgraduate, Stevens Institute of Technology, Stevens Institute Of Technology , Elektrik Mühendisliği Bölümü-Matematik, United States Of America 1976 - 1978

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Mühendisliği, Turkey 1969 - 1974

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Broadband Matching a Complex Genarator to a Complex Load, Cornell University, Elektrik Mühendisliği-Matematik , Elektrik Mühendisliği-Matematik , 1982

Research Areas

Electrical and Electronics Engineering, Electronic, Electronic Circuits, Microwave Circuits, Electromagnetic, Electric and Magnetic Fields, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2004 - Continues

Associate Professor, Anadolu University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği, 1985 - 1988

Assistant Professor, Anadolu University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği, 1984 - 1985

Academic and Administrative Experience

İstanbul Üniversitesi, Bilişim Koordinasyon Kurulu, 2011 - Continues

İstanbul Üniversitesi, Elektrik-Elektronik Mühendisliği, Elektrik-Elektronik Mühendisliği , 2004 - Continues

İstanbul Üniversitesi, Konservatuar, 2011 - 2015

İstanbul Üniversitesi, 2009 - 2015

Courses

Electromagnetic Field Theory, Undergraduate, 2013 - 2014

Elektromanyetik Alan Teorisi, Undergraduate, 2012 - 2013

Teşhis ve Tedavide Çok Amaçlı Karar Verme Yöntemleri, Doctorate, 2013 - 2014

Yöneticiler için Karar Verme Yöntemleri, Doctorate, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Detection of COVID-19 and its pulmonary stage using Bayesian hyperparameter optimization and deep feature selection methods**
Muzoglu N., Halefoglu A. M., Avci M. O., Karaaslan M. K., Yarman B. S. B.
EXPERT SYSTEMS, vol.40, no.1, 2023 (SCI-Expanded)
- II. **Broadband Power Amplifier Design via Fictitious Matching**
KILINÇ S., Yarman B. S., Özoğuz İ. S.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS, vol.69, no.12, pp.4844-4848, 2022 (SCI-Expanded)
- III. **Broadband performance assessment of a microwave power transistor employing the real frequency technique**
Kilinc S., Ejaz M. E., Yarman B. S., Ozoguz S., Srivastava S., Nurellari E.
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, vol.50, no.11, pp.3725-3748, 2022 (SCI-Expanded)
- IV. **A 919 MHz-923 MHz, 21 dBm CMOS Power Amplifier With Bias Modulation Linearization Technique Achieving PAE of 29% for LoRa Application**
Rawat A. S., Rajendran J., Mariappan S., Shasidharan P., Kumar N., Yarman B. S.
IEEE ACCESS, vol.10, pp.79365-79378, 2022 (SCI-Expanded)
- V. **Antibacterial, cytotoxicity and biodegradability studies of polycaprolactone nanofibers holding green synthesized Ag nanoparticles using atropa belladonna extract**
Avci M. O., Muzoglu N., Yilmaz A. E., Yarman B. S.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.33, no.9, pp.1157-1180, 2022 (SCI-Expanded)
- VI. **A GaN Microwave Power Amplifier Design Based on the Source/Load Pull Impedance Modeling via Virtual Gain Optimization**
KILINÇ S., Yarman B. S., Ozoguz S.
IEEE ACCESS, vol.10, pp.50677-50691, 2022 (SCI-Expanded)
- VII. **Detection of COVID-19 findings by the local interpretable model-agnostic explanations method of types-based activations extracted from CNNs**
Togacar M., Muzoglu N., ERGEN B., Yarman B. S. B., Halefoglu A. M.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.71, 2022 (SCI-Expanded)
- VIII. **Low pass filter design with improved stop-band suppression and synthesis with transformer-free ladders**
Yildiz S., Aksen A., KILINÇ S., Yarman S. B.
IET CIRCUITS DEVICES & SYSTEMS, vol.15, no.6, pp.504-510, 2021 (SCI-Expanded)
- IX. **CMOS realization of electronically tunable VDCC based single-input-dual-output filter**
Guney A., KAÇAR F., Kuntman H.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.132, 2021 (SCI-Expanded)
- X. **The Advancement of Radio Frequency Energy Harvesters (RFEHs) as a Revolutionary Approach for**

Solving Energy Crisis in Wireless Communication Devices: A Review

Ramalingam L., Mariappan S., Parameswaran P., Rajendran J., Nitesh R. S., Kumar N., Nathan A., Yarman B. S.
IEEE ACCESS, vol.9, pp.106107-106139, 2021 (SCI-Expanded)

- XI. **An 0.4-2.8 GHz CMOS Power Amplifier With On-Chip Broadband-Pre-Distorter (BPD) Achieving 36.1-38.6% PAE and 21 dBm Maximum Linear Output Power**
Mariappan S., Rajendran J., Yusof Y. M., Noh N. M., Yarman B. S.
IEEE ACCESS, vol.9, pp.48831-48840, 2021 (SCI-Expanded)
- XII. **Design of multiband matching ladders without mutual coupling using parametric representation of Brune functions**
Yildiz S., Aksen A., Yarman B. S.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.30, no.10, 2020 (SCI-Expanded)
- XIII. **Dual band stop filter design via frequency transformation and synthesis with lumped resonators**
Yildiz S., Aksen A., KILINÇ S., Yarman S. B.
IET CIRCUITS DEVICES & SYSTEMS, vol.14, no.3, pp.311-315, 2020 (SCI-Expanded)
- XIV. **Broadband RF Power Amplifier with Combination of Large Signal X-Parameter and Real Frequency Techniques**
Krishnamoorthy R., Kumar N., Grebennikov A., Yarman B. S., Ramiah H.
IEICE TRANSACTIONS ON ELECTRONICS, vol.E103C, no.5, pp.225-230, 2020 (SCI-Expanded)
- XV. **Microwave engineering expertise in Turkey [around the globe]**
Yarman B. S. B., Palamutcuogullari O., KAYA I., KIZILBEY O., Aksen A., AKIN T., OZKAN Z. L., OKSAR I., NESİMOĞLU T.
IEEE Microwave Magazine, vol.19, no.3, pp.135-140, 2018 (SCI-Expanded)
- XVI. **Broadband GaN HEMT distributed power amplifier design with phase adjustment**
YAN H. H., KUMAR N., LATEF T. A., Yarman B. S. B., Grebennikov A.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.1, pp.253-256, 2018 (SCI-Expanded)
- XVII. **Ultra-wideband GaN HEMT power amplifier with practical mixed lumped approach employing real-frequency technique**
LIM W. J., KUMAR N., Yarman S., Chacko P.
IEICE ELECTRONICS EXPRESS, vol.14, no.13, 2017 (SCI-Expanded)
- XVIII. **Effects of Co-Channel Interference on Sum-Rate Based Relay Selection Method for A Dual-Hop Multiple Full-Duplex Two-Way Wireless Relaying Networks**
ÖZDURAN V., Soleimani-Nasab E., YARMAN B. S. B.
Istanbul University Journal of Electrical and Electronics Engineering, no.17, pp.3387-3397, 2017 (SCI-Expanded)
- XIX. **Distributed power amplifier with novel integration technique of broadband impedance transformer using pseudomorphic HEMT and gallium nitride HEMT**
NARENDRA K., YAN H. H., Yarman B. S. B., LATEF T. A.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.11, no.7, pp.949-954, 2017 (SCI-Expanded)
- XX. **A design technique of 50 Ohm terminated bandpass matching network and its implementation to a Y-shaped monopole antenna matching**
Aydin C., Atilla D. C., Kopru R., Kilinc S., Karakus C., Yarman B. S.
ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING, vol.89, no.3, pp.665-673, 2016 (SCI-Expanded)
- XXI. **Opportunistic source-pair selection for multi-user two-way amplify-and-forward wireless relaying networks**
Ozduran V., Soleimani-Nasab E., Yarman B. S. B.
IET COMMUNICATIONS, vol.10, no.16, pp.2106-2118, 2016 (SCI-Expanded)
- XXII. **Effect of input phase mismatch in Doherty power amplifiers**
Aydin O., Palamutcuogullari O., Yarman B. S. B.
IEICE ELECTRONICS EXPRESS, vol.13, no.20, 2016 (SCI-Expanded)
- XXIII. **SIMSec: A Key Exchange Protocol Between SIM Card and Service Provider**
Ok K., Coskun V., Yarman S. B., CEVIKBAS C., Ozdenizci B.
WIRELESS PERSONAL COMMUNICATIONS, vol.89, no.4, pp.1371-1390, 2016 (SCI-Expanded)

- XXIV. **Effect of offset lines in Doherty power amplifiers**
Aydin O., Palamutcuogullari O., Yarman B. S. B.
IEICE ELECTRONICS EXPRESS, vol.12, no.24, 2015 (SCI-Expanded)
- XXV. **Ultra wideband matching network design for a V-shaped square planar monopole antenna**
Kopru R., Kilinc S., Aydin C., Atilla D. C., KARAKUS C., Yarman B. S. B.
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, vol.6, no.6, pp.555-564, 2014 (SCI-Expanded)
- XXVI. **Wideband power amplifier for two-way radio applications via real-frequency technique**
ARIDAS N. K., Yarman B. S. B., CHACKO P.
ELECTRONICS LETTERS, vol.50, no.23, pp.1762-1763, 2014 (SCI-Expanded)
- XXVII. **On numerical design technique of wideband microwave amplifiers based on GaN small-signal device model**
Kopru R., Kuntman H., Yarman B. S.
ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING, vol.81, no.1, pp.71-87, 2014 (SCI-Expanded)
- XXVIII. **Impact of the External Co-channel Interferences Over Multiuser Bi-directional Wireless Relaying Networks-Part I: System Description and Outage Analysis**
Ozduran V., Yarman S. B.
WIRELESS PERSONAL COMMUNICATIONS, vol.78, no.2, pp.1277-1295, 2014 (SCI-Expanded)
- XXIX. **High Precision Synthesis of a Richards Immittance Via Parametric Approach**
Yarman B. S. B., Kopru R., KUMAR N., PRAKASH C.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS, vol.61, no.4, pp.1055-1067, 2014 (SCI-Expanded)
- XXX. **A decision support system to determine optimal ventilator settings**
Akbulut F. P., AKKUR E., Akan A., Yarman B. S. B.
BMC MEDICAL INFORMATICS AND DECISION MAKING, vol.14, 2014 (SCI-Expanded)
- XXXI. **High Precision LC Ladder Synthesis Part II: Immittance Synthesis With Transmission Zeros at DC and Infinity**
Yarman B. S. B., Kilinc A.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS, vol.60, no.10, pp.2719-2729, 2013 (SCI-Expanded)
- XXXII. **Novel Approach to Design Ultra Wideband Microwave Amplifiers: Normalized Gain Function Method**
Kopru R., Kuntman H., Yarman B. S. B.
RADIOENGINEERING, vol.22, no.3, pp.672-686, 2013 (SCI-Expanded)
- XXXIII. **High Precision LC Ladder Synthesis Part I: Lowpass Ladder Synthesis via Parametric Approach**
Kilinc A., Yarman B. S.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS, vol.60, no.8, pp.2074-2083, 2013 (SCI-Expanded)
- XXXIV. **An eclectic approach to design tunable amplifiers**
Nesimoglu T., Aydin C., Atilla D. C., Kopru R., Yarman B. S. B.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.23, no.4, pp.444-451, 2013 (SCI-Expanded)
- XXXV. **Organizasyonlarda İçerik Yönetim Sistemi Seçimi İçin Bir Karar Destek Sistemi Geliştirilmesi**
Kartal E., Özen Z., Üstünkaya M. E., Zaim Gökbay I., Yarman B. S. B.
American Sociological Review, vol.10, no.40, pp.155-162, 2013 (SSCI)
- XXXVI. **3.5-3.8 GHz class-E balanced GaN HEMT power amplifier with 20 W Pout and 80% PAE**
Kizilbey O., Palamutcuogullari O., Yarman S. B.
IEICE ELECTRONICS EXPRESS, vol.10, no.5, 2013 (SCI-Expanded)
- XXXVII. **Vectorially Combined Distributed Power Amplifiers for Software-Defined Radio Applications**
Narendra K., Limiti E., Paoloni C., Collantes J., Jansen R., Yarman S.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.60, no.10, pp.3189-3200, 2012 (SCI-Expanded)

- XXXVIII. **Vectorially combined distributed power amplifier with load pull impedance determination**
Narendra K., Limiti E., Paoloni C., Collantes J. M., Jansen R. H., Yarman B. S. B.
ELECTRONICS LETTERS, vol.46, no.16, pp.1137-1138, 2010 (SCI-Expanded)
- XXXIX. **A Novel Hybrid Electrocardiogram Signal Compression Algorithm with Low Bit-Rate**
GÜRKAN H., Güz Ü., YARMAN B. S. B.
Lecture Notes in Electrical Engineering, vol.62, pp.95-98, 2010 (SCI-Expanded)
- XL. **EEG signal compression based on classified signature and envelope vector sets**
Gurkan H., Guz U., Yarman B. S. B.
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, vol.37, no.2, pp.351-363, 2009 (SCI-Expanded)
- XLI. **Design of Distibuted-Element RF Filters via Reflectance Data Modeling**
ŞENGÜL M., YARMAN B. S. B., VOLMER C., Hein M. A.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.1, pp.1-10, 2009 (SCI-Expanded)
- XLII. **Broadband Equalizer Design with Commensurate Transmission Lines via Reflectance Modeling**
ŞENGÜL M., Yarman S. B.
IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES, no.12, pp.3763-3771, 2008 (SCI-Expanded)
- XLIII. **Design of Broadband Microwave Amplifiers with Mixed-Elements via Reflectance Data Modeling**
ŞENGÜL M., YARMAN B. S. B.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.62, pp.132-137, 2008 (SCI-Expanded)
- XLIV. **Design of distributed-element RF filters via reflectance data modeling**
ŞENGÜL M., Yarman S. B., Volmer C., Hein M.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.62, no.7, pp.483-489, 2008 (SCI-Expanded)
- XLV. **Design of broadband microwave amplifiers with mixed-elements via reflectance data modeling**
ŞENGÜL M., Yarman S. B.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.62, no.2, pp.132-137, 2008 (SCI-Expanded)
- XLVI. **Design of practical matching networks with lumped elements via modeling**
YARMAN B. S. B., ŞENGÜL M., KILINÇ A.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS, vol.54, no.8, pp.1829-1837, 2007 (SCI-Expanded)
- XLVII. **Modeling of electrocardiogram signals using predefined signature and envelope vector sets**
GÜRKAN H., Güz U., Yarman B. S. B.
EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING, 2007 (SCI-Expanded)
- XLVIII. **New Method to Represent Speech Signals via Predefined Signature and Envelope Sequences**
Güz Ü., GÜRKAN H., YARMAN B. S. B.
EURASIP JOURNAL ON APPLIED SIGNAL PROCESSING, vol.1, pp.1-17, 2007 (SCI-Expanded)
- XLIX. **On the Comparative Results of SYMPES: A New Method of Speech Modelling**
YARMAN B. S. B., Güz Ü., GÜRKAN H.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.60, pp.421-427, 2006 (SCI-Expanded)
- L. **Determination of Optimum Length of Frames and Number of Vectors to Compress ECG Signals**
Akdeniz R., Tüfekçi P., YARMAN B. S. B.
INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY, vol.1, pp.260-264, 2005 (SCI-Expanded)
- LI. **A novel method to represent speech signals**
Akdeniz R., YARMAN B. S. B.
SIGNAL PROCESSING, vol.85, no.1, pp.37-50, 2005 (SCI-Expanded)
- LII. **Immitance data modelling via linear interpolation techniques: A classical circuit theory approach**
YARMAN B. S. B., KILINÇ A., Aksen A.

- INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, vol.32, no.6, pp.537-563, 2004 (SCI-Expanded)
- LIII. **A Computer-Aided Design technique for lossless matching networks with mixed, lumped and distributed elements**
Sertbas A., Yarman B.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.58, no.6, pp.424-428, 2004 (SCI-Expanded)
- LIV. **A New Modeling Method of the ECG Signals Based on the Use of an Optimized Predefined Functional Database**
YARMAN B. S. B., GÜRKAN H., Güz Ü., Aygün B.
INTERNATIONAL JOURNAL OF CARDIOLOGY, vol.53, pp.59-61, 2003 (SCI-Expanded)
- LV. **Determination of Optimum Length of Frames and Number of Vectors to Code ECG Signals**
Akdeniz R., Tüfekçi P., YARMAN B. S. B.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.1, pp.58-61, 2003 (SCI-Expanded)
- LVI. **International Journal of Electronics and Communications (AEÜ)**
YARMAN B. S. B., Aksen A., KILINÇ A.
An Immitance Based Tool for Modelling Passive One-Port Devices by Means of Darlington Equivalents, vol.55, pp.443-451, 2001 (SCI-Expanded)
- LVII. **A real frequency approach to describe lossless two-ports formed with mixed lumped and distributed elements**
Aksen A., YARMAN B. S. B.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.55, no.6, pp.389-396, 2001 (SCI-Expanded)
- LVIII. **AN INTEGRATED DESIGN TOOL TO CONSTRUCT LOSSLESS MATCHING NETWORKS WITH MIXED LUMPED AND DISTRIBUTED ELEMENTS**
YARMAN B. S. B., Aksen A.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-FUNDAMENTAL THEORY AND APPLICATIONS, vol.39, no.9, pp.713-723, 1992 (SCI-Expanded)
- LIX. **Novel circuit configurations to design loss balanced 0-360 digital phase shifters**
YARMAN B. S. B.
AEÜ, vol.45, pp.96-104, 1991 (SCI-Expanded)
- LX. **Computer Aided Double Matching via Parametric Representation of Brune Functions**
YARMAN B. S. B., Fettweis A.
IEEE Trans. on CAS, vol.37, pp.212-222, 1990 (SCI-Expanded)
- LXI. **NEW CIRCUIT CONFIGURATIONS FOR DESIGNING 0-180-DEGREES DIGITAL PHASE SHIFTERS**
YARMAN B. S.
IEE PROCEEDINGS-H MICROWAVES ANTENNAS AND PROPAGATION, vol.134, no.3, pp.253-260, 1987 (SCI-Expanded)
- LXII. **MODERN APPROACHES TO BROAD-BAND MATCHING PROBLEMS**
YARMAN B. S.
IEE PROCEEDINGS-H MICROWAVES ANTENNAS AND PROPAGATION, vol.132, no.2, pp.87-92, 1985 (SCI-Expanded)
- LXIII. **DOUBLE BROAD-BAND MATCHING AND THE PROBLEM OF RECIPROCAL REACTANCE 2N-PORT CASCADE DECOMPOSITION**
YOULA D. C., CARLIN H. J., YARMAN B. S. B.
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, vol.12, no.3, pp.269-281, 1984 (SCI-Expanded)
- LXIV. **THE DOUBLE MATCHING PROBLEM - ANALYTIC AND REAL FREQUENCY SOLUTIONS**
CARLIN H., YARMAN B.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS, vol.30, no.1, pp.15-28, 1983 (SCI-Expanded)
- LXV. **A DYNAMIC CAD TECHNIQUE FOR DESIGNING BROAD-BAND MICROWAVE-AMPLIFIERS**
YARMAN B. S. B.

- RCA REVIEW, vol.44, no.4, pp.551-565, 1983 (SCI-Expanded)
- LXVI. **A Simplified Real Frequency Technique Applied to Broadband Multistage Microwave Amplifiers**
YARMAN B. S. B.
IEEE-MTT, vol.30, pp.2216-2222, 1982 (SCI-Expanded)
- LXVII. **Real Frequency Broadband Matching Using Linear Programming**
YARMAN B. S. B.
RCA Review, vol.43, pp.626-654, 1982 (SCI-Expanded)
- LXVIII. **A SIMPLIFIED REAL FREQUENCY TECHNIQUE FOR BROAD-BAND MATCHING A COMPLEX GENERATOR TO A COMPLEX LOAD**
YARMAN B. S. B.
RCA REVIEW, vol.43, no.3, pp.529-541, 1982 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Linear Stochastic System Approach to Model Symptom Based Clinical Decision Support Tool for the Early Diagnosis for Psoriasis, Seborrheic Dermatitis, Rosacea and Chronic Dermatitis**
Gokbay İ., Zileli Z. B., Sari P., Aksoy T. T., Yarman S.
ELECTRICA, vol.19, no.1, pp.48-58, 2019 (ESCI)
- II. **A Linear Stochastic System Approach to Model Symptom Based Clinical Decision Support Tool for the Early Diagnosis for Psoriasis, Seborrheic Dermatitis, Rosacea and Chronic Dermatitis.**
ZAIM GÖKBAY İ., Zileli Z. B., Sarı Tekten P., Aksoy T. T., YARMAN B. S. B.
ISTANBUL UNIVERSITY-JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.19, no.1, pp.57-67, 2019 (Scopus)
- III. **DUAL BAND FILTER DESIGN USING REAL FREQUENCY TECHNIQUE AND FREQUENCY TRANSFORMATION**
YILDIZ S., Aksen A., YARMAN B. S. B.
ISTANBUL UNIVERSITY JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.17, no.2, pp.3343-3350, 2017 (Peer-Reviewed Journal)
- IV. **DUAL BAND FILTER DESIGN USING REAL FREQUENCY TECHNIQUE AND FREQUENCY TRANSFORMATION**
Yildiz S., Aksen A., Yarman S. B.
ISTANBUL UNIVERSITY-JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.17, no.2, 2017 (ESCI)
- V. **Microarray Gene Expression Data Classification with Random Forest**
Aytekin S. A., YARMAN B. S. B., ZAIM GÖKBAY İ.
International Journal of Engineering Science and Computing IJESC, vol.6, no.12, pp.3898-3901, 2016 (Peer-Reviewed Journal)
- VI. **COMPUTER AIDED DARLINGTON SYNTHESIS OF AN ALL PURPOSE IMMITTANCE FUNCTION**
YARMAN B. S. B., Aksen A., KÖPRÜ R., KUMAR N., AYDIN Ç., ATILLA D. Ç., Chacko P.
Istanbul University - Journal of ELECTRICAL & ELECTRONICS ENGINEERING(IU - JEEE), vol.16, no.1, pp.2027-2037, 2016 (Peer-Reviewed Journal)
- VII. **ZERO IF SECOND HARMONIC SIGE MIXER WITH DC OFFSET CANCELLATION**
GÜVENÇ U., PALAMUTCUOGULLARI O., YARMAN B. S. B.
Istanbul University - Journal of ELECTRICAL & ELECTRONICS ENGINEERING(IU - JEEE), no.16, pp.1965-1970, 2016 (Peer-Reviewed Journal)
- VIII. **ZERO-IF SECOND HARMONIC SIGE MIXER WITH DC OFFSET CANCELLATION**
Guvenc U., Palamutcuogullari O., Yarman S.
ISTANBUL UNIVERSITY-JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.16, no.1, pp.1965-1970, 2016 (ESCI)
- IX. **Organizasyonlarda İçerik Yönetim Sistemi Seçimi İçin Bir Karar Destek Sistemi Geliştirilmesi (Developing a Decision Support System to Select Content Management System in Organizations)**

- Kartal Karataş E., Özen Z., Üstünkaya M. E., Zaim Gökbay İ., Yarmın B. S.
AMERICAN SOCIOLOGICAL REVIEW, vol.10, no.40, pp.155-162, 2013 (Peer-Reviewed Journal)
- X. **A proposal from Istanbul University for a new legislation on higher education**
Batmaz V., Ozturk R., Vardar O., Yanik M., Yarmın S., Yazici H.
YUKSEKOGRETİM DERGİSİ, vol.1, no.1, pp.6-7, 2011 (ESCI)
- XI. **New Statistical Method to Represent Speech Signals**
YARMAN B. S. B.
Asian Journal of Information Technology, vol.3, pp.721-726, 2004 (Peer-Reviewed Journal)
- XII. **New approaches to design digital phase shifters over the complete phase plane**
YARMAN B. S. B.
Journal of Islamic Academy of Science, vol.4, pp.14-25, 1991 (Peer-Reviewed Journal)
- XIII. **Design of Digital Phase Shifters Suitable for Monolithic Implementation**
YARMAN B. S.
Bulletin of the Technical University of İstanbul, vol.38, pp.183-205, 1985 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Mühendislik Fiziği 1**
YARMAN N. T., ARIK M., ALTINTAŞ A. A., YARMAN B. S. B., ZAIM N., KAVUK M., GOLDENBERG E.
Okan Üniversite Yayınları, İstanbul, 2018
- II. **Hayata Bir Çocuk Bir Çocuğa Hayat: Suça Karışmanın Erken Yaşta Önlenmesi**
Yarmın B. S. B. (Editor), Zaim Gökbay İ. (Editor), Özdemir Ş. (Editor)
Nobel Yayın Dağıtım, İstanbul, 2016
- III. **Broadband RF and Microwave Amplifiers**
Grebennikov A., KUMAR N., YARMAN B. S. B.
Crc Press, New York, 2016
- IV. **Design of Ultra Wideband Power Transfer Networks**
YARMAN B. S. B.
John Wiley & Sons, West Sussex, UK , New York, 2010
- V. **Design of Ultra Wideband Antenna Matching Networks: Via Simplified Real Frequency Technique**
YARMAN B. S. B.
Springer, London/Berlin , Londra, 2008

Refereed Congress / Symposium Publications in Proceedings

- I. **A New Real Frequency Line Segment Technique to Assess the Gain Bandwidth Limitations for the Double Matching Problems**
Yarmın B. S., KILINÇ S.
International Microwave and Antenna Symposium (IMAS), Cairo, Egypt, 7 - 09 February 2023, pp.111-114
- II. **A Unified Real Frequency Technique for the Solution to Broadband Matching Problems**
Ejaz M. E., KILINÇ S., Yarmın S. B., Ozoguz S., Srivastava S., Nurellari E.
21st Mediterranean Microwave Symposium (MMS), Italy, 9 - 13 May 2022, pp.384-389
- III. **A Numerical Procedure to Determine the Power Intake/Delivery Capacity of a GaN RF Power Transistor over Broadband**
KILINÇ S., Ejaz M. E., Yarmın S. B., Ozoguz S., Srivastava S., Nurellari E.
21st Mediterranean Microwave Symposium (MMS), Italy, 9 - 13 May 2022, pp.390-395
- IV. **A Realizability Test as Applied on the Generated Source/Load-Pull Data**
KILINÇ S., Ejaz M. E., Yarmın S. B., Ozoguz S., Srivastava S., Nurellari E.
21st Mediterranean Microwave Symposium (MMS), Italy, 9 - 13 May 2022, pp.373-377

- V. **An Adaptive Modulation for Relay-Assisted Wireless Optical Network**
SIPAHIOGLU F., Ozduran V., Yarman S. B.
4th International Scientific Conference on Advances in Wireless and Optical Communications, RTUWO 2018, Riga, Latvia, 15 - 16 November 2018, pp.6-11
- VI. **Nikotin bağımlısı bireylerin sosyal davranışlarının lineer stokastik matematiksel model ile analizi: ön çalışma**
ZAHİR GÖKBAY İ., Yüksel C., PEHLİVAN S., YARMAN B. S. B.
Uluslararası Bilimsel Araştırmalar Kongresi (UBAK), Mardin, Turkey, 9 - 13 May 2018, vol.1, no.1, pp.262-263
- VII. **Dual Band Filter Design for GSM Bands Using Frequency Mapping and Real Frequency Technique**
Yildiz S., Kilinc S., Aksen A., Yarman S. B.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.164-167
- VIII. **A Numerical Approach for the Design of Matching Networks Consisting of Brune Sections Based on Fujisawa Constraints**
Yildiz S., Aksen A., Yarman S. B.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.171-174
- IX. **High Efficiency Wideband Power Amplifier with Class-J Configuration**
Cagdas E., Kizilbey O., Yazgi M., Palamutcuogullari O., Yarman B. S.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.394-397
- X. **Real Frequency Design of Multiband Matching Networks with Mixed Lumped-Distributed Elements and Foster Resonance Sections**
Yildiz S., Aksen A., Yarman S. B.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.187-190
- XI. **Circuit Model for Statistical Method Based Reliability Estimation of MOS Transistors and Analog CMOS Circuits**
Kuntman A., Kuntman H.
7th International Conference on Reliability, Infocom Technologies and Optimization - Trends and Future Directions (ICRITO), Noida, India, 29 - 31 August 2018, pp.101-112
- XII. **Design of an Ultra-Wideband GaN Power Amplifier via Real Frequency Technique**
Kilinc S., Yarman B. S.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.179-182
- XIII. **Design of broadband microwave power amplifiers via Fettweis representation of Brune functions**
YARMAN B. S. B.
Electronics, Circuits and Systems (ICECS), 2017 24th IEEE International Conference on, Batumi, Georgia, 5 - 08 December 2017, pp.454-457
- XIV. **A novel Broadband-Wide Phase Range digital phase shifter topology**
Avci C., Güneş E. O., Yarman B. S. B.
2017 International Symposium on Signals, Circuits and Systems, ISSCS 2017, Iasi, Romania, 13 - 14 July 2017
- XV. **A frequency transformation based real frequency design approach for dual-band matching**
Aksen A., Yildiz S., Yarman S. B.
2017 International Symposium on Signals, Circuits and Systems, ISSCS 2017, Iasi, Romania, 13 - 14 July 2017
- XVI. **SYMPES technique encoded IP-based secure voice communication system**
Yarman B. S. B., ULGER C., ASLAN A. B.
2017 International Symposium on Signals, Circuits and Systems, ISSCS 2017, Iasi, Romania, 13 - 14 July 2017
- XVII. **Sum-rate based relay selection with feedback delay for a multiple half/full-duplex two-way relaying**
Ozduran V., Soleimani-Nasab E., Siddik Yarman B. S. B.
15th International Conference on ITS Telecommunications, ITST 2017, Warszawa, Poland, 29 - 31 May 2017
- XVIII. **Block size effect on image compression using SYMPES method**
Meskoob B., Kouhalvandi L., Yarman B. S. B.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XIX. **2-10 GHz multisection 2-way Wilkinson power divider with enhanced port match and isolation**
KIZILBEY O., BOZDEMİR S., Yarman B. S. B.

18th IEEE Wireless and Microwave Technology Conference, WAMICON 2017, Florida, United States Of America, 24 - 25 April 2017

- XX. **Sum-rate based opportunistic relay selection with channel estimation error for a dual-hop multiple half/full-duplex bi-directional wireless relaying networks**
Ozduran V., Soleimani-Nasab E., Yarman B. S. B.
26th Wireless and Optical Communication Conference, WOCC 2017, New-Jersey, United States Of America, 7 - 08 April 2017
- XXI. **Quad-Band Matching Network Design with Real Frequency Technique Employing Frequency Transformation**
Yildiz S., Aksen A., Yarman S. B.
1st IEEE Ukraine Conference on Electrical and Computer Engineering (UKRCON), Kyiv, Ukraine, 29 May - 02 June 2017, pp.144-148
- XXII. **Design of 0-15GHz Band 180 Degree Digital Phase Shifting Cell Topology**
Avci C., Güneş E. O., Yarman B. S. B.
24th IEEE International Conference on Electronics, Circuits and Systems (ICECS), Batumi, Georgia, 5 - 08 December 2017, pp.103-106
- XXIII. **A Novel Method to Design Broadband Flat Gain and Sufficiently Efficient Power Amplifiers Using Real Frequency Technique**
Kilinc S., Yarman B. S. B.
24th IEEE International Conference on Electronics, Circuits and Systems (ICECS), Batumi, Georgia, 5 - 08 December 2017, pp.30-33
- XXIV. **Implementation of Sensorless Field Oriented Control Algorithm for Variable-Speed Rotary Compressors Using Digital Signal Controller**
Uzun F. E., Gurkan K., Bozik T., Arslan S. E., Guven U., Yarman S.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.239-243
- XXV. **Simplified Symptes Codec with Positive DC Offset**
Yarman B. S. B., KORKMAZ O., TEMIZYUREK M., INCE F. B., HASOY B., CANBERI H., CEREN E., GULTEKIN E.
24th IEEE International Conference on Electronics, Circuits and Systems (ICECS), Batumi, Georgia, 5 - 08 December 2017, pp.202-205
- XXVI. **Multiband and Concurrent Matching Network Design via Brune Sections**
YILDIZ S., Aksen A., Yarman S. B.
24th IEEE International Conference on Electronics, Circuits and Systems (ICECS), Batumi, Georgia, 5 - 08 December 2017, pp.90-93
- XXVII. **0 8 1 9 GHz Mikrodalga Kuvvetlendirici Tasarımı**
KOÇ O., KILINÇ S., YARMAN B. S. B.
ELECO2016 Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı1-2-3 Aralık 2016, Bursa, Bursa, Turkey, 1 - 03 December 2016
- XXVIII. **İki Düğümlü Çok Röleli Tam-Zamanlı İki Yönlü Kablosuz Röleli Ağlarda Eş-Kanal Etkileşimlerin Toplam-Oran Tabanlı Fırsatçı Röle Seçim (TO-FRS) Metodu Üzerine Etkileri**
ÖZDURAN V., Soleimani-Nasab E., YARMAN B. S. B.
ELECO2016 Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı1-2-3 Aralık 2016, Bursa, Bursa, Turkey, 1 - 03 December 2016
- XXIX. **WiFi LTE ve 5G Uygulamaları için 3 6GHz Bandında 3 Bit Faz Kaydırıcı**
ATASOY E., PIRI F., YARMAN B. S. B.
ELECO2016 Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı1-2-3 Aralık 2016, Bursa, Bursa, Turkey, 1 - 03 December 2016
- XXX. **UV DGM Motor Kontrol Algoritmasının ARM Cortex M4 Tabanlı Mikrodenetleyici ile Gerçekleştirilmesi**
ARSLAN S. E., UZUN F. E., GÜRKAN K., ACAR A., YILDIRIM İ. O., GÜVEN U., ATMACA E., YARMAN B. S. B.
ELECO2016 Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı1-2-3 Aralık 2016, Bursa, Bursa, Turkey, 1

- 03 December 2016

XXXI. CMOS Prosesinde Geniş Bantlı 180 Dijital Faz Kaydırıcı Tasarımı

AVCI C., GÜNEŞ E. O., YARMAN B. S. B.

ELECO2016 Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı 1-2-3 Aralık 2016, Bursa, Bursa, Turkey, 1

- 03 December 2016

XXXII. GPS Alıcı Ön Uç Devre Katmanları 1 575 GHz LNA ve Anten Tasarımı

YILDIZBAŞ E., KILINÇ S., YARMAN B. S. B.

ELECO2016 Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı 1-2-3 Aralık 2016, Bursa, Bursa, Turkey, 1

- 03 December 2016

XXXIII. SRFT ile Frekans Transformasyonunu Kullanarak Band Geçiren Filtre Prototipi Üzerinden Çoklu Band Filtre Tasarımı

YILDIZ S., AKSEN A., YARMAN B. S. B.

ELECO2016 Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı 1-2-3 Aralık 2016, Bursa, Bursa, Turkey, 1

- 03 December 2016

XXXIV. Impact of channel estimation error on physical layer security in dual-hop half/full-duplex two-way wireless relaying networks

Ozduran V., Yarman B. S. B., CIOFFI J. M.

35th IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPS 2016, California, United States Of America, 10 - 14 April 2016, pp.308-313

XXXV. Design of Broadband Microwave Power Amplifiers via Fettweis Representation of Brune Functions

YARMAN B. S. B., EJAZ M. E.

ISCAS 2016 - International Symposium on Circuits and Systems 2016, Montreal, Canada, 22 - 25 May 2016

XXXVI. Impedance matching networks for current output integrated circuits

Amin H. Y., Özoğuz S., Yarman B. S. B.

2nd International Conference on Knowledge-Based Engineering and Innovation, KBEI 2015, Tehran, Iran, 5 - 06 November 2015, pp.66-70

XXXVII. Distributed wideband power amplifier using reactive coupled line feedback structure

Amin H. Y., Özoğuz S., Köprü R., Yarman B. S. B.

2nd International Conference on Knowledge-Based Engineering and Innovation, KBEI 2015, Tehran, Iran, 5 - 06 November 2015, pp.91-94

XXXVIII. RFT based multiband matching network design with foster resonance sections

Yildiz S., AKSEN A., Yarman B. S. B.

9th International Conference on Electrical and Electronics Engineering, ELECO 2015, Bursa, Turkey, 26 - 28 November 2015, pp.911-915

XXXIX. Multiband Matching Network Design via Transformation based Real Frequency Approach

Yildiz S., Aksen A., Yarman S. B.

International Symposium on Fundamentals of Electrical Engineering (ISFEE), Romania, 30 June - 02 July 2016

XL. Dual Band Matching Network Design via Real Frequency Technique by Mapping from a Band Pass Prototype

Yildiz S., Aksen A., Yarman S. B.

16th Mediterranean Microwave Symposium (MMS), Abu Dhabi, United Arab Emirates, 14 - 16 November 2016

XLI. 0.8-1.9 GHz Microwave Amplifier Design

Koc O., Kilinc S., KÖPRÜ R., Yarman S.

National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.567-571

XLII. Multiband Filter Design from Bandpass Prototype Filter with using Frequency Transformation via SRFT

Yildiz S., Aksen A., Yarman S. B.

National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.432-436

XLIII. Realization of SV-PWM Motor Control Algorithm using ARM Cortex-M4 Based Microcontroller

Arslan S. E., Uzun F. E., Gurkan K., Acar A., Yildirim I. O., Guven U., Atmaca E., Yarman S.
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03
December 2016, pp.282-285

- XLIV. **SiGe Subharmonic Mixer for Direct Conversion Receivers**
Guvenc U., Palamutcuogullari O., Yarman S.
16th Mediterranean Microwave Symposium (MMS), Abu Dhabi, United Arab Emirates, 14 - 16 November 2016
- XLV. **Wide band edge-coupled impedance matching network with quarter wavelength measurement circuit**
Amin H. Y., Yarman B. S. B.
1st IEEE Nordic Circuits and Systems Conference, NORCAS 2015, Oslo, Norway, 26 - 28 October 2015
- XLVI. **Determination of Physical Risk Factors in Hospitals and Occupational Health and Safety**
Aksoy T. T., ÇEVİK F. E., KILIÇ N., YARMAN B. S. B.
7th European Academy of Forensic Science Conference, Prag, Czech Republic, 6 - 11 September 2015, pp.1
- XLVII. **Symmetric lattice 45°, 90° and 180° digital phase shifter at 3-6 GHz for LTE, WIFI, Radar applications**
ATASOY E., Piri F., Yarman B. S. B.
12th International Symposium on Signals, Circuits and Systems, ISSCS 2015, Iasi, Romania, 9 - 10 July 2015
- XLVIII. **Practical consideration to design broadband X-Band power amplifiers: Comparative results**
Yarman B. S. B., EJAZ M. E.
15th IEEE Mediterranean Microwave Symposium, MMS 2015, Lecce, Italy, 30 November - 02 December 2015
- XLIX. **Wideband bandpass filter design for X band horn antenna via numerical techniques**
Kopru R., Aydin C., Atilla D. C., Kilinc S., Yarman B. S. B.
15th IEEE Mediterranean Microwave Symposium, MMS 2015, Lecce, Italy, 30 November - 02 December 2015
- L. **Transformerless Bandpass Matching Network Design for Y-Shaped Monopole Antenna**
Aydin C., Atilla D. C., Karakus C., KÖPRÜ R., Yarman S.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.122-125
- LI. **A Novel Broadband Compact 3dB 180 degrees Power Divider/Combiner Derived From the Wilkinson Power Divider/Combiner**
Kizilbey O., Palamutcuogullari O., Yarman S. B.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.119-121
- LII. **Grounded Inductance Simulator Topologies Realization with Single Current Differencing Current Conveyor**
Kacar F., Kuntman H., Kuntman A.
European Conference on Circuit Theory and Design (ECCTD), Trondheim, Norway, 24 - 26 August 2015, pp.33-36
- LIIL. **Unit Element Bandpass Filter Design Via Simplified Real Frequency Technique For Uwb Microstrip Patch Antenna**
KOPRU R., KILINÇ S., Aksen A., YARMAN B. S. B.
IEEE 14th Mediterranean Microwave Symposium MMS 2014, Marrakech, Morocco, 12 - 14 December 2014
- LIV. **Mixed Element Wideband Microwave Amplifier Design Via Simplified Real Frequency Technique**
KILINÇ S., KÖPRÜ R., Aksen A., YARMAN B. S. B.
IEEE 14th Mediterranean Microwave Symposium MMS 2014, Marrakech, Morocco, 12 - 14 December 2014
- LV. **Bir Genişband Empedans Uyum Devresinin Richards Uzayında Eş Uzunluklu Birim Elemanlar ile Sentezlenmesi**
KILINÇ S., KÖPRÜ R., YARMAN B. S. B.
URSI-Türkiye'2014 Bilimsel Kongresi ve Ulusal Genel Kurulu, Elazığ, Turkey, 28 - 30 August 2014, pp.1-3
- LVI. **Gerçek Frekans Tekniği Kullanarak Mikroşerit Yama Anten Uyum Devresi Tasarımı**
KÖPRÜ R., KILINÇ S., YARMAN B. S. B.
URSI-Türkiye'2014 Bilimsel Kongresi ve Ulusal Genel Kurulu, Elazığ, Turkey, 28 - 30 August 2014, pp.1-3
- LVII. **Computer Aided High Precision Darlington Synthesis for Real Frequency Matching**
Yarman B. S., Aksen A., KÖPRÜ R., Aydin C., Atilla C.

IEEE Benjamin Franklin Symposium on Microwave and Antenna Sub-systems for Radar, Telecommunications, and Biomedical Applications (BenMAS), Pennsylvania, United States Of America, 26 September 2014

LVIII. Design and Realization of Wideband Matching Networks in Richards Domain

Kilinc S., KÖPRÜ R., Yarman B. S.

IEEE Benjamin Franklin Symposium on Microwave and Antenna Sub-systems for Radar, Telecommunications, and Biomedical Applications (BenMAS), Pennsylvania, United States Of America, 26 September 2014

LIX. A High Precision Cascade Synthesis Technique for Real Frequency Matching Involving Brune and Darlington Type-C Sections

Yarman B. S., Aksen A., KÖPRÜ R., Aydin C., Atilla C.

Conference on Mediterranean Microwave Symposium (MMS), Marrakech, Morocco, 12 - 14 December 2014, pp.401-405

LX. Design and Implementation of Wideband Microwave Amplifiers Based on Normalized Gain Function

KÖPRÜ R., Kilinc S., Aksen A., Yarman B. S.

IEEE Benjamin Franklin Symposium on Microwave and Antenna Sub-systems for Radar, Telecommunications, and Biomedical Applications (BenMAS), Pennsylvania, United States Of America, 26 September 2014

LXI. Design of Tunable Amplifier Using Digital Capacitors

Atilla D. C., Aydin C., Nesimoglu T., KÖPRÜ R., Aksen A., Yarman B. S.

Conference on Mediterranean Microwave Symposium (MMS), Marrakech, Morocco, 12 - 14 December 2014, pp.372-375

LXII. New CMOS Realization of Current Differencing Current Conveyor (CDCC) with Biquad Filter Application

Kacar F., Ismail A., Kuntman H.

IEEE 5th Latin American Symposium on Circuits and Systems (LASCAS), Santiago, Chile, 25 - 28 February 2014

LXIII. CT Modalite ile Görüntülenen Meme Kanseri Verilerinin Önceden Tanımlı Enerji Ve Yapı Öbekleri İle Modellenmesi

Gökbay İ. Z., GEZER M., GÜZ Ü., GÜRKAN H., YARMAN B. S. B., Sasani H., ZAİM GÖKBAY İ.

Tıp Teknolojileri Ulusal Kongresi, TIPTEKNO'13,, Antalya, Turkey, 1 - 04 November 2013, pp.11

LXIV. Design and investigation of 12–50 Ohm tunable microstrip impedance transforming filter

AYDIN Ç., ATİLLA D. Ç., KIZILBEY O., KÖPRÜ R., NESİMOĞLU T., YARMAN B. S. B.

13th Mediterranean Microwave Symposium (MMS), 2013., Saida, Lebanon, 2 - 05 September 2013, pp.1-3

LXV. A Study on RF/Microwave tunable inductor topologies

Turgul V., NESİMOĞLU T., YARMAN B. S. B.

13th Mediterranean Microwave Symposium (MMS), 2013., Saida, Lebanon, 2 - 05 September 2013, pp.1-4

LXVI. Wideband matching network design for a V-shaped square monopole antenna using Real Frequency Technique

KÖPRÜ R., AYDIN Ç., ATİLLA D. Ç., Karakuş C., YARMAN B. S. B.

13th Mediterranean Microwave Symposium (MMS), 2013., Saida, Lebanon, 2 - 05 September 2013, pp.1-4

LXVII. A miniaturized 180° hybrid ring coupler

KIZILBEY O., PALAMUTÇUOĞULLARI O., YARMAN B. S. B.

IEEE Wireless and Microwave Technology Conference, Orlando, United States Of America, 1 - 04 May 2013, pp.1-4

LXVIII. A frequency tunable broadband amplifier utilizing tunable capacitors and inductors

NESİMOĞLU T., AYDIN Ç., ATİLLA D. Ç., YARMAN B. S. B.

Conference on Microwave Techniques (COMITE), Pardubice, Czech Republic, 17 - 18 April 2013, pp.65-68

LXIX. A Tunable Inductance Topology to Realize Frequency Tunable Matching Networks and Amplifiers

Atilla D. C., Aydin C., Kopru R., Nesimoglu T., Yarman B. S. B.

IEEE International Symposium on Circuits and Systems (ISCAS), Beijing, China, 19 - 23 May 2013, pp.77-80

LXX. A Novel Method to Design Wideband Power Amplifier for Wireless Communication

KÖPRÜ R., Kuntman H., Yarman B. S.

IEEE International Symposium on Circuits and Systems (ISCAS), Beijing, China, 19 - 23 May 2013, pp.1942-1945

LXXI. A Novel Biometric Authentication Approach Using Electrocardiogram Signals

GÜRKAN H., GÜZ Ü., Yarman B. S.

35th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Osaka, Japan, 3 - 07 July 2013, pp.4259-4262

- LXXII. **Mixed-Mode Biquad Filter Employing Single Active Element**
Kacar F., Kuntman A., Kuntman H.
IEEE 4th Latin American Symposium on Circuits and Systems (LASCAS), Cusco, Peru, 27 February - 01 March 2013
- LXXIII. **A Novel Human Identification System based on Electrocardiogram Features**
GÜRKAN H., GÜZ Ü., Yarman B. S.
International Symposium on Signals, Circuits and Systems (ISSCS), Iasi, Romania, 11 - 12 July 2013
- LXXIV. **2W Wideband Microwave PA Design for 824-2170 MHz Band Using Normalized Gain Function Method**
KÖPRÜ R., Kuntman H., Yarman B. S.
8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.344-348
- LXXV. **A New Speech Coding Algorithm using Zero Cross and Phoneme Based SYMPES**
Sisman B., GÜZ Ü., GÜRKAN H., Yarman B. S.
International Symposium on Signals, Circuits and Systems (ISSCS), Iasi, Romania, 11 - 12 July 2013
- LXXVI. **Ultra wideband square planar monopole antenna with V-shaped coupling elements**
YARMAN B. S. B.
Indian Antenna Week (IAW), 2011, India, 1 - 04 December 2012, pp.1-4
- LXXVII. **Design of tunable matching networks over 800–5200 MHz using real frequency techniques**
YARMAN B. S. B.
IEEE Applied Electromagnetics Conference (AEMC), 2011, India, 1 - 04 December 2012, vol.1, pp.1-4
- LXXVIII. **A Decision Making System on Fatih Tablet PC Tender, Fatih Tablet PC I-halesi için Karar Destek Sistemi**
ZAIM GÖKBAY İ., YARMAN B. S. B., Yurt S. C.
Türk Bilis,im Derneg'i 29. Ulusal Bilis,im Kongresi, Ankara, Turkey, 21 - 23 November 2012, pp.3-7
- LXXIX. **High voltage stress effects on power MOSFETs in switching DC-DC converters**
YARMAN B. S. B.
IEEE International Conference on Advanced Power System Automation and Protection (APAP), China, 1 - 04 October 2012, vol.2, pp.1278-1282
- LXXX. **"A Decision Making Model on Power Transistors, Güç Transistorü Seçiminde Karar Destek Modeli**
ZAIM GÖKBAY İ., YARMAN B. S. B., Atilla D. Ç., Aydın Ç., BAL E.
3. İleri Teknolojiler Çalıştayı (ITC 2012), İstanbul, Turkey, 4 - 06 September 2012, pp.459-464
- LXXXI. **Kanser Karar Destek Sistemlerine Bir Yaklaşım: DENİZ**
Gökbay İ. Z., GEZER M., YARMAN B. S. B.
Tıp Teknolojileri Kongresi 2011, Antalya, Turkey, 1 - 04 November 2011, pp.99-102
- LXXXII. **High voltage stress effects on power MOSFETs in switching DC-DC converters**
ÖZÇELEP Y., KUNTMAN A., KUNTMAN H., YARMAN B. S. B.
The International Conference on Advanced Power System Automation and Protection (APAP2011), China, pp.1278-1282
- LXXXIII. **"Anovel Approach to Cancer Decision Making Systems: DENİZ, Kanser Karar Destek Sistemlerine Bir Yaklaşım: DENİZ", İnci Zaim Gökbay, Murat Gezer, B. Sıddık Yarman**
ZAIM GÖKBAY İ., YARMAN B. S. B., Gezer M.
TıpTekno 2011, Antalya, Antalya, Turkey, 13 - 16 October 2011, pp.464-471
- LXXXIV. **Design of impedance matching network for B&K 8104 hydrophone via Direct Computational Technique for underwater communication**
Kuzlu M., ŞENGÜL M., KILINÇ A., Dinçer H., Yağlıdere İ., YARMAN B. S. B.
Mediterranean Microwave Symposium (MMS), 2010, Güzelyurt, Cyprus (Kktc), 1 - 04 September 2011, pp.399-402
- LXXXV. **Discrete component design of broadband impedance transforming filter for distributed power amplifiers**
YARMAN B. S. B.

- Mediterranean Microwave Symposium (MMS), 2010, Cyprus (Kktc), 1 - 04 August 2011, pp.292-295
- LXXXVI. **Real-frequency design of an integrated lumped element broadband impedance transforming filter**
YARMAN B. S. B.
Mediterranean Microwave Symposium (MMS), 2010, Cyprus (Kktc), 1 - 04 August 2011, pp.245-248
- LXXXVII. **Real frequency techniques to design ultra wideband circuits**
YARMAN B. S. B.
Mediterranean Microwave Symposium (MMS), 2010, Cyprus (Kktc), 1 - 04 August 2011, pp.453-456
- LXXXVIII. **Wideband matching circuit design for differential output systems by using real frequency technique**
YARMAN B. S. B.
Mediterranean Microwave Symposium (MMS), 2010, Cyprus (Kktc), 1 - 04 August 2011, pp.241-244
- LXXXIX. **Automated design of antenna matching networks with optimum circuit topology on MatLab**
YARMAN B. S. B.
Applied Electromagnetics Conference (AEMC), 2009, India, 1 - 04 December 2010, pp.1-4
- XC. **A novel image compression method based on classified energy and pattern blocks: Initial results**
Guz U., Gurkan H., Yarmen B. S. B.
25th International Symposium on Computer and Information Sciences, ISCIS 2010, London, United Kingdom, 22 - 24 September 2010, pp.283-288
- XCI. **A novel noise robust and low bit rate speech coding algorithm**
YARMAN B. S. B.
24th International Symposium on Computer and Information Sciences, 2009. ISCIS 2009., Cyprus (Kktc), 1 - 04 September 2010, pp.471-474
- XCII. **A NEW CMOS CURRENT DIFFERENCING TRANSCONDUCTANCE AMPLIFIER (CDTA) AND ITS BIQUAD FILTER APPLICATION**
Kacar F., Kuntman H.
International IEEE Conference Devoted to the 150-Anniversary of Alexander S Popov, St Petersburg, Russia, 18 - 23 May 2009, pp.189-190
- XCIII. **Novel Electronically Tunable FDNR Simulator Employing Single FDCCII**
Kacar F., Kuntman H.
European Conference on Circuit Theory Design, Antalya, Turkey, 23 - 27 August 2009, pp.21-22
- XCIV. **DXCCII Based Electronically Tunable Current-Mode Universal Filter**
Kacar F., Kuntman H.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.419-420
- XCV. **Design of mixed-element networks via modeling**
ŞENGÜL M., Yarmen S. B.
3rd IEEE International Symposium on Control, Communications and Signal Processing (ISCCSP 2008), St Julians, Malta, 12 - 14 March 2008, pp.269-270
- XCVI. **A new fully differential second generation current conveyor and its application**
Kacar F., Kuntman H.
11th International Conference on Optimization of Electrical and Electronic Equipment, Brasov, Romania, 22 - 23 May 2008, pp.3-4
- XCVII. **A New High Performance CMOS Fully Differential Second Generation Current Conveyor**
Kacar F., Kuntman H.
IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.68-69
- XCVIII. **A new approach of hot-carrier degradation and lifetime prediction for N-MOS transistors**
Kacar F., Kuntman A., Kuntman H.
13th IEEE Mediterranean Electrotechnical Conference (MELECON 2006), Benalmadena, Spain, 16 - 19 May 2006, pp.129-132
- XCIX. **On the reliability of symmetrical CMOS OTA operating in subthreshold region**
Ozcelep Y., Kuntman A., Kuntman H.

13th IEEE Mediterranean Electrotechnical Conference (MELECON 2006), Benalmadena, Spain, 16 - 19 May 2006, pp.191-194

- C. **Explicit Descriptive Equations to Construct Symmetrical Lossless Two-Ports with Mixed Lumped and Distributed Elements'**
YARMAN B. S., Çimen E., Aksen A., SERTBAŞ A.
First IEEE Balkan Conference on Signal Process, Communications, Circuits and Sys. Işık Univ. Campus, Maslak-İstanbul, Turkey, 1 - 04 June 2000
- CI. **A Computer-aided Design Technique for Analog RF Circuits with Lumped and Distributed Element Interconnect Models**
YARMAN B. S., SERTBAŞ A., Aksen A.
First IEEE Balkan Conference on Signal Process, Communications, Circuits and Sys. Işık Univ. Campus, Maslak-İstanbul, Turkey, 1 - 04 June 2000
- CII. **Explicit Formulas for A Special Class of Two-Variable Resonant Ladder Networks with Simple Lumped Elements and Commensurate Stubs**
SERTBAŞ A., Aksen A., YARMAN B. S.
ELECO'99 (International Conference on Electrical and Electronics Engineering) Bursa, Turkey, 1 - 04 November 1999, pp.132-135
- CIII. **Construction of analog RF circuits with lumped and distributed components for high speed/ high frequency mobile communication MMICs**
SERTBAŞ A., Aksen A., YARMAN B. S.
ECCTD'99 (European Conference Circuit Theory and Design), Stresa-Italy, Italy, 1 - 04 August 1999, vol.2, pp.1123-1126
- CIV. **Explicit two-variable description of a class of band-pass lossless two-ports with mixed, lumped elements and transmission lines**
SERTBAŞ A., YARMAN B. S., Aksen A.
NDS-98 (Multidimensional -nD Systems), 1. International Workshop, Poland, Poland, 1 - 04 June 1998, pp.45-47
- CV. **Mikrodalga Kuvvetlendiricileri için Band-Geçiren Tip. Karma (Toplu- Dağılmış) Elemanlı Dengeleyici Tasarımı**
SERTBAŞ A., YARMAN B. S., Aksen A.
Çukurova Üniversitesi, M.M.Fak. Elektrik Müh. 10.Yıl Sempozyumu, Adana, Turkey, 18 - 20 February 1998, pp.84-89
- CVI. **Construction of some classes of two-variable lossless ladder networks with simple lumped elements and uniform transmission lines**
SERTBAS A., AKSEN A., YARMAN B. S. B.
1998 IEEE Asia-Pacific Conference on Circuits and Systems, Chiang-Mai, Thailand, 24 - 27 November 1998, pp.295-298

Supported Projects

ÖZDURAN V., SOLEİMANİ-NASAB E., YARMAN B. S. B., Project Supported by Higher Education Institutions, Opportunistic source-pair selection for multi-user two-way amplify-and-forward wireless relaying networks, 2017 - 2017

ÖZDURAN V., SOLEİMANİ-NASAB E., YARMAN B. S. B., Project Supported by Higher Education Institutions, Sum-Rate Based Opportunistic Relay Selection With Channel Estimation Error For A Dual Hop Multiple Half/Full-Duplex Bi-directional Wireless Relaying Networks, 2017 - 2017

ZAİM GÖKBAY İ., SAYDAM M. B., YARMAN B. S. B., YÜCEL V., HAYRAN R., AKSOY N., Project Supported by Higher Education Institutions, Çocuklarda ve Ergenlerde Riskli Davranışları Öngörebilme ve Prevansiyon, 2014 - 2017

ÖZDURAN V., YARMAN B. S. B., CİOFFİ J. M., Project Supported by Higher Education Institutions, Impact of Channel Estimation Error on Physical Layer Security in Dual-Hop Half/Full-Duplex Two-Way Wireless Relaying Networks, 2016 - 2016

YARMAN B. S. B., TUBITAK Project, Genişband Mikrodalga Yükselteç Tasarımı İçin Yarı Analitik Yöntemler Geliştirilmesi Ve Bir Yükselteç Üretimi, 2013 - 2015

Metrics

Publication: 192

Citation (WoS): 486

Citation (Scopus): 559

H-Index (WoS): 13

H-Index (Scopus): 13

Congress and Symposium Activities

18. Mediterranean Microwave Symposium (MMS 2018), Attendee, İstanbul, Turkey, 2018

IEEE 14th Mediterranean Microwave Symposium MMS 2014, Attendee, Marrakech, Morocco, 2014

13. Mediterranean Microwave Symposium (MMS 2013), Attendee, Lebanon, 2013

12. Mediterranean Microwave Symposium (MMS 2012), Attendee, İstanbul, Cyprus (Kktc), 2012

IEEE Applied Electromagnetics Conference, Attendee, Kolkata, India, 2011

10. Mediterranean Microwave Symposium (MMS 2010), Attendee, İstanbul, Turkey, 2010

IEEE Applied Electromagnetics Conference, Attendee, India, 2009

Awards

YARMAN B. S. B., IEEE FELLOW, IEEE, January 2004

YARMAN B. S. B., Bilim ve Teknolojide “Yılın Bilim Adamı” Ödülü, Cambridge Biography Center, Cambridge, İngiltere, January 1998

YARMAN B. S. B., Devreler ve Sistemler Konusunda “Chapter of the Year” Ödülü, IEEE, January 1994

YARMAN B. S. B., TÜBİTAK Hüsamettin Tugaç Vakfı Teknoloji Ödülü, TÜBİTAK, January 1987

YARMAN B. S. B., Alexander Von Humboldt Araştırma Ödülü, Alexander Von Humboldt Araştırma Ödülü, January 1987

YARMAN B. S. B., TÜBİTAK Teşvik Ödülü, TÜBİTAK, January 1986