

# Prof. İBRAHİM DEVELİ

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği A.B.D., Turkey  
1997 - 2003

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği A.B.D.,  
Turkey 1995 - 1997

Undergraduate, Erciyes University, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü,  
Turkey 1991 - 1995

## Foreign Languages

German, B1 Intermediate

English, B2 Upper Intermediate

## Dissertations

Doctorate, Ağırlıklı Toparlama Dizili DD/KBÇE İletişim Sistemleri için Yayma Kodlarının Tanımlanmasında ve En İyi Yönelim Belirlenmesinde Yeni Yaklaşımlar, Erciyes Üniversitesi, Fen Bilimleri, Elektronik Mühendisliği , 2003

Postgraduate, Güvenli Haberleşme için Kaotik İşaretlerin ve Sistemlerin İncelenmesi, Erciyes Üniversitesi, Fen Bilimleri, Elektronik Mühendisliği , 1997

## Research Areas

Communication Engineering, Information Theory, Communication System Theory, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

## Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, Elektrik-Elektronik Bölümü, 2014 - Continues

Associate Professor, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2009 - 2014

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2003 - 2009

Research Assistant, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 1995 - 2003

## Academic and Administrative Experience

Head of Department, Erciyes University, 2016 - 2022

BAP Scientific Commissioner, Erciyes University, 2009 - 2022

Director of Continuing Education Center, Erciyes University, 2018 - 2021

Erciyes Üniversitesi, Mühendislik Fakültesi, 2012 - 2013

Erciyes Üniversitesi, Mühendislik Fakültesi Elektrik-Elektronik Müh. Bölümü, 2009 - 2011

Erciyes University, 2009 - 2011

Erciyes Üniversitesi, Mühendislik Fakültesi Elektrik-Elektronik Müh. Bölümü, 2007 - 2008

Erciyes University, 2007 - 2008

## Courses

Yayıllı Spektrum Haberleşmesi, Postgraduate, 2017 - 2018

Optik Haberleşme, Undergraduate, 2017 - 2018

Uydu Haberleşme Sistemleri, Postgraduate, 2017 - 2018

Sezim ve Kestirim Teorisi, Doctorate, 2017 - 2018

Bilgisayar Programlama 1, Undergraduate, 2017 - 2018

Biyotelemetri, Undergraduate, 2017 - 2018

Kablosuz & Gezgin Haberleşme, Undergraduate, 2017 - 2018

Mühendisler için Lineer Cebir, Undergraduate, 2017 - 2018

Haberleşme Sistemlerinin Simülasyonu, Postgraduate, 2017 - 2018

## Advising Theses

Develi İ., Enerji Algılama Tabanlı İşbirlikçi Online Öğrenme Algoritması Kullanılarak Bilişsel Radyo Ağlarında Spektrum Algılama Başarımının İyileştirilmesi, Doctorate, K.Koçkaya(Student), 2021

Develi İ., Gültekin S. S., İşbirlikli Uzaysal Modülasyonun Farklı Sönümlenmeli Kanallardaki Performans Analizi, Doctorate, A.Elif(Student), 2019

DEVELİ İ., Çöz ve Aktar İşbirlikli İletişim Teknikleri Kullanan Serpiştirme Bölmeli Çoklu Erişim Sistemlerinin Performans Analizi, Doctorate, M.Bilim(Student), 2018

DEVELİ İ., Kuvvetlendir ve Aktar İşbirlikli İletim Tekniğini Kullanan DD-KBÇE Sistemlerinin Sönümlü Kanallardaki Performans İfadelerinin Türetilmesi, Doctorate, N.Kapucu(Student), 2017

Develi İ., Türkmen M., Ultra Geniş Bant (UGB) Haberleşme Sistemleri için Mikroşerit Yama Anten Tasarımı, Postgraduate, F.Altuntaş(Student), 2016

DEVELİ İ., Bina İçi Enerji Hattı İletişiminde Yeni Bir Kanal Modeli için Sistem Performansının İncelenmesi, Doctorate, Y.Kabalıcı(Student), 2015

DEVELİ İ., GSM 900 ve GSM 1800 Radyasyonunun in Vitro ve Meyve Suyunda Çeşitli Mikroorganizmalar ile Antioksidan Özellikler Üzerine Etkileri, Postgraduate, Ş.Merve(Student), 2012

DEVELİ İ., Serpiştirme Bölmeli Çoklu Erişim Sistemlerinin Yeni Serpiştirme Yaklaşımları ile Bit Hata Oranı Başarımının İncelenmesi, Postgraduate, M.Bilim(Student), 2012

DEVELİ İ., İşbirlikli Haberleşme Sistemlerinin Farklı Sönümlü Kanallardaki Başarım Analizleri için Yeni Matematiksel İfadelerin Türetilmesi, Postgraduate, N.Kapucu(Student), 2012

DEVELİ İ., Erciyes Üniversitesi Kampüsünde GSM900 ve GSM1800 Şebekelerinin Oluşturduğu Elektromanyetik Kirliliğin

Ölçülmesi ve Değerlendirilmesi, Postgraduate, U.Sorgucu(Student), 2011  
DEVELİ İ., Farksal Gelişim Algoritmasının Çok Girişli Çok Çıkışlı Sistemlerde Optimum Anten Konfigürasyonuna Uygulanması, Erciyes Üniversitesi, Postgraduate, E.Nazife(Student), 2009  
DEVELİ İ., Değişik Kırmık Dalga Biçimlerinin Kullanıldığı Genelleştirilmiş ÇT DD-KBÇE Sisteminde Optimum Alttasıyıcı Aralığın Değişiminin İncelenmesi, Postgraduate, K.Koçkaya(Student), 2008  
DEVELİ İ., Başlangıç Evre Optimizasyonlu Gürültü Benzeri Kod Dizilerin Kullanıldığı ÇGÇÇ-KBÇE Sistemlerin Başarım Analizi, Postgraduate, M.Filiz(Student), 2007  
DEVELİ İ., Çokyollu Nakagami-m Sönümlü Kanallarda Genelleştirilmiş ÇT DD-KBÇE Sisteminin Performans Analizi, Postgraduate, S.Şener(Student), 2006

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Deep learning-based channel estimation for OFDM-IM systems over Rayleigh fading channels**  
Adiguzel O., DEVELİ İ.  
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.37, no.18, 2024 (SCI-Expanded)
- II. **Error analysis of OFDM-IM systems for beyond 5G: The effect of IQI at transceiver**  
Ceniklioglu B., DEVELİ İ., Canbilen A. E.  
International Journal of Communication Systems, vol.37, no.14, 2024 (SCI-Expanded)
- III. **ABER Performance of OFDM-IM systems by RIS design in the presence of IQI and  $\alpha$ - $\mu$  fading**  
Karahan B., DEVELİ İ., Canbilen A. E., Alsalameh H.  
Engineering Science and Technology, an International Journal, vol.56, 2024 (SCI-Expanded)
- IV. **The Effect of Hardware Impairments on the Error Bounds of Localization and Maximum Likelihood Estimation of  $\theta$  in mm-Wave MISO-OFDM Systems**  
Tubail D., Ceniklioglu B., Canbilen A. E., DEVELİ İ., Ikki S. S.  
IEEE Transactions on Vehicular Technology, vol.72, no.3, pp.4063-4067, 2023 (SCI-Expanded)
- V. **Investigation of S1046 profile bladed vertical axis wind turbine and artificial intelligence-based performance evaluation**  
Osmanli S., AKANSU S. O., AZGINOĞLU N., Akansu Y. E., DEVELİ İ.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.45, no.3, pp.8771-8790, 2023 (SCI-Expanded)
- VI. **Error Bounds for 3D Localization and Maximum Likelihood Estimation of mm-Wave MISO OFDM Systems in the Presence of Hardware Impairments**  
Tubail D. A., Ceniklioglu B., Canbilen A. E., DEVELİ İ., Ikki S.  
IEEE COMMUNICATIONS LETTERS, vol.26, no.9, pp.2042-2046, 2022 (SCI-Expanded)
- VII. **Effects of GSM 1800 band radiation on composition, structure and bioactivity of exopolysaccharides produced by yoghurt starter cultures**  
Karataş Ş. M., Ekici L., Develi İ., Dertli E., Sağdıç O.  
ARCHIVES OF MICROBIOLOGY, vol.203, no.4, pp.1697-1706, 2021 (SCI-Expanded)
- VIII. **Spectrum sensing in cognitive radio networks: threshold optimization and analysis**  
Koçkaya K., Develi İ.  
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING, vol.2020, no.1, 2020 (SCI-Expanded)
- IX. **Joint Impact of I/Q Imbalance and Imperfect CSI on SM-MIMO Systems Over Generalized Beckmann Fading Channels: Optimal Detection and Cramer-Rao Bound**  
Canbilen A. E., Ikki S. S., Basar E., Gultekin S. S., DEVELİ İ.  
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol.19, no.5, pp.3034-3046, 2020 (SCI-Expanded)
- X. **Impact of I/Q Imbalance on Amplify-and-Forward Relaying: Optimal Detector Design and Error Performance**  
Canbilen A. E., Ikki S. S., Basar E., Gultekin S. S., DEVELİ İ.  
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.67, no.5, pp.3154-3166, 2019 (SCI-Expanded)

- XI. **Spatial Modulation in the Presence of I/Q Imbalance: Optimal Detector & Performance Analysis**  
 Canbilen A. E., Alsmadi M. M., Basar E., Ikki S. S., Gultekin S. S., DEVELİ I.  
 IEEE COMMUNICATIONS LETTERS, vol.22, no.8, pp.1572-1575, 2018 (SCI-Expanded)
- XII. **Application of best relay selection approach to cooperative DF IDMA systems over Rayleigh/Weibull fading channels**  
 BİLİM M., KAPUCU N., DEVELİ I.  
 INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.31, no.5, 2018 (SCI-Expanded)
- XIII. **A comprehensive performance analysis of relay-aided CDMA communications over dissimilar fading channels**  
 KAPUCU N., BİLİM M., DEVELİ I.  
 AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.83, pp.339-347, 2018 (SCI-Expanded)
- XIV. **Average symbol error rate and outage probability of DS-CDMA systems with AF relaying over asymmetric fading channels**  
 KAPUCU N., BİLİM M., DEVELİ I.  
 PHYSICAL COMMUNICATION, vol.23, pp.76-83, 2017 (SCI-Expanded)
- XV. **Cooperative IDMA systems with regenerative relays over Weibull fading channels: outage probability and error analysis**  
 BİLİM M., KAPUCU N., DEVELİ I.  
 IET COMMUNICATIONS, vol.11, no.7, pp.993-999, 2017 (SCI-Expanded)
- XVI. **Outage performance of cooperative DS-CDMA systems with best path selection over  $\alpha$ - $\mu$  fading channels**  
 KAPUCU N., BİLİM M., DEVELİ I.  
 ELECTRONICS LETTERS, vol.53, no.11, pp.752-754, 2017 (SCI-Expanded)
- XVII. **A Closed-Form Approximate BEP Expression for Cooperative IDMA Systems over Multipath Nakagami-m Fading Channels**  
 BİLİM M., KAPUCU N., DEVELİ I.  
 IEEE COMMUNICATIONS LETTERS, no.20, pp.1599-1602, 2016 (SCI-Expanded)
- XVIII. **How to prepare head tissue-equivalent liquids for SAR calculations, dosimetry and hyperthermia researches at 900 and 1800 MHz GSM frequencies**  
 Sorgucu U., DEVELİ I., ÖZEN Ş.  
 RADIATION PROTECTION DOSIMETRY, vol.168, no.3, pp.365-373, 2016 (SCI-Expanded)
- XIX. **A comparative simulation study on the performance of LDPC coded communication systems over Weibull fading channels**  
 DEVELİ I., Kabalci Y.  
 Journal of Applied Research and Technology, vol.14, no.2, pp.101-107, 2016 (SCI-Expanded)
- XX. **Performance of Two-Hop DS-CDMA Systems Using Amplify-and-Forward Protocol over Different Fading Channels**  
 KAPUCU N., BİLİM M., DEVELİ I.  
 ELEKTRONIKA IR ELEKTROTEHNIKA, vol.22, no.1, pp.97-101, 2016 (SCI-Expanded)
- XXI. **Effect of repetition coding on the BER performance of interleave-division multiple access systems**  
 BİLİM M., KAPUCU N., DEVELİ I.  
 TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.3, pp.1412-1420, 2016 (SCI-Expanded)
- XXII. **Artificial bee colony optimization for modelling of indoor PLC channels: A case study from Turkey**  
 DEVELİ I., Kabalci Y., BAŞTÜRK A.  
 ELECTRIC POWER SYSTEMS RESEARCH, vol.127, pp.73-79, 2015 (SCI-Expanded)
- XXIII. **A New Nakagami-m Inverse CDF Approximation Based on the Use of Genetic Algorithm**  
 BİLİM M., DEVELİ I.  
 WIRELESS PERSONAL COMMUNICATIONS, vol.83, no.3, pp.2279-2287, 2015 (SCI-Expanded)
- XXIV. **Computing resonant frequency of C-shaped compact microstrip antennas by using ANFIS**

- Akdagli A., Kayabasi A., DEVELİ I.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.102, no.3, pp.407-417, 2015 (SCI-Expanded)
- XXV. **Performance of Two-Hop Relay Assisted Decode-and-Forward Transmission under Mixed Fading Environments**  
KAPUCU N., BİLİM M., DEVELİ I., Kabalci Y.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.21, no.1, pp.60-63, 2015 (SCI-Expanded)
- XXVI. **Dual-Hop N-Relay Assisted Transmission for IDMA Systems over Weibull Fading Channels**  
BİLİM M., KAPUCU N., DEVELİ I.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.21, no.4, pp.69-72, 2015 (SCI-Expanded)
- XXVII. **Highly reliable LDPC coded data transfer in home networks by using Canete's PLC channel model**  
DEVELİ I., Kabalci Y.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.62, pp.912-918, 2014 (SCI-Expanded)
- XXVIII. **Performance of LDPC coded image transmission over realistic PLC channels for smart grid applications**  
DEVELİ I., Kabalci Y., BAŞTÜRK A.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.62, pp.549-555, 2014 (SCI-Expanded)
- XXIX. **A Closed-Form MGF Expression of Instantaneous SNR for Weibull Fading Channels**  
KAPUCU N., BİLİM M., DEVELİ I.  
WIRELESS PERSONAL COMMUNICATIONS, vol.77, no.2, pp.1605-1613, 2014 (SCI-Expanded)
- XXX. **Analysis of the Use of Different Decoding Schemes in LDPC Coded OFDM Systems over Indoor PLC Channels**  
DEVELİ I., Kabalci Y.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.20, no.10, 2014 (SCI-Expanded)
- XXXI. **SER Performance of Amplify-and-Forward Cooperative Diversity Over Asymmetric Fading Channels**  
KAPUCU N., BİLİM M., DEVELİ I.  
WIRELESS PERSONAL COMMUNICATIONS, vol.73, no.3, pp.1117-1127, 2013 (SCI-Expanded)
- XXXII. **Highly Accurate Analytic Approximation to the Gaussian Q-function Based on the Use of Nonlinear Least Squares Optimization Algorithm**  
DEVELİ I., BAŞTÜRK A.  
JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, vol.159, no.1, pp.183-191, 2013 (SCI-Expanded)
- XXXIII. **AN APPLICATION OF ARTIFICIAL NEURAL NETWORK TO COMPUTE THE RESONANT FREQUENCY OF E-SHAPED COMPACT MICROSTRIP ANTENNAS**  
Akdagli A., Toktas A., Kayabasi A., DEVELİ I.  
JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTEHNIČKY CASOPIS, vol.64, no.5, pp.317-322, 2013 (SCI-Expanded)
- XXXIV. **Outage Probability Analysis of Dual-Hop Decode-and-Forward Relaying Over Mixed Rayleigh and Generalized Gamma Fading Channels**  
KAPUCU N., BİLİM M., DEVELİ I.  
WIRELESS PERSONAL COMMUNICATIONS, vol.71, no.2, pp.947-954, 2013 (SCI-Expanded)
- XXXV. **High-order exponential approximations for the Gaussian Q-function obtained by genetic algorithm**  
DEVELİ I., Akdagli A.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.100, no.4, pp.553-562, 2013 (SCI-Expanded)
- XXXVI. **Approximate Expression of Bit Error Rate in Uplink MC-CDMA Systems with Equal Gain Combining**  
DEVELİ I., Akdagli A.  
JOURNAL OF COMMUNICATIONS AND NETWORKS, vol.15, no.1, pp.25-30, 2013 (SCI-Expanded)
- XXXVII. **IMPROVEMENT OF BER PERFORMANCE IN MIMO-CDMA SYSTEMS BY USING INITIAL-PHASE OPTIMIZED GOLD CODES**  
DEVELİ I., Filiz M.  
JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTEHNIČKY CASOPIS, vol.64, no.1, pp.38-43, 2013 (SCI-

- Expanded)
- XXXVIII. **A NEW APPROXIMATION BASED ON THE DIFFERENTIAL EVOLUTION ALGORITHM FOR THE GAUSSIAN Q-FUNCTION**  
Develi I.  
INTERNATIONAL JOURNAL OF INNOVATIVE COMPUTING INFORMATION AND CONTROL, vol.8, pp.7095-7102, 2012 (SCI-Expanded)
- XXXIX. **Optimum antenna configuration in MIMO systems: a differential evolution based approach**  
DEVELİ I, YAZLIK E. N.  
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, vol.12, no.6, pp.473-480, 2012 (SCI-Expanded)
- XL. **Modelling and analysis of a power line communication system with QPSK modem for renewable smart grids**  
Kabalci E., Kabalci Y., DEVELİ I.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.34, no.1, pp.19-28, 2012 (SCI-Expanded)
- XLI. **Measurement and analysis of electromagnetic pollution generated by GSM-900 mobile phone networks in Erciyes University, Turkey**  
Sorgucu U., DEVELİ I.  
ELECTROMAGNETIC BIOLOGY AND MEDICINE, vol.31, no.4, pp.404-415, 2012 (SCI-Expanded)
- XLII. **BER Performance Simulation of Generalized MC DS-CDMA System with Time-Limited Blackman Chip Waveform**  
DEVELİ I, Kockaya K.  
RADIOENGINEERING, vol.19, no.3, pp.403-407, 2010 (SCI-Expanded)
- XLIII. **Further performance analysis of the generalized MC DS-CDMA system in Nakagami-m fading channels**  
Şener S., DEVELİ I., KARABOĞA N.  
COMPUTERS & ELECTRICAL ENGINEERING, vol.35, no.1, pp.1-8, 2009 (SCI-Expanded)
- XLIV. **Determination of optimum antenna number ratio based on differential evolution for MIMO systems under low SNR conditions**  
DEVELİ I.  
WIRELESS PERSONAL COMMUNICATIONS, vol.43, no.4, pp.1667-1673, 2007 (SCI-Expanded)
- XLV. **A method for predicting rain attenuation in terrestrial point-to-point line of sight links at 97 GHz**  
Develi I.  
ANNALS OF TELECOMMUNICATIONS-ANNALES DES TELECOMMUNICATIONS, vol.62, pp.1035-1044, 2007 (SCI-Expanded)
- XLVI. **Differential evolution based prediction of rain attenuation over a LOS terrestrial link situated in the southern United Kingdom**  
Develi I.  
RADIO SCIENCE, vol.42, no.3, 2007 (SCI-Expanded)
- XLVII. **Generalized neural method for shaping the exponential chip weighting waveforms in direct sequence CDMA systems**  
Develi I., Kalinli A., Ciftlikli C.  
FREQUENZ, vol.60, pp.60-64, 2006 (SCI-Expanded)
- XLVIII. **An improved formula obtained by simulated annealing for the computation of maximum SINR for DS-CDMA receiver with exponentially weighted despreading function**  
Ciftlikli C., Kalinli A., Develi I.  
EUROPEAN TRANSACTIONS ON TELECOMMUNICATIONS, vol.17, no.1, pp.143-150, 2006 (SCI-Expanded)
- XLIX. **New results on the performance of multitone DS-CDMA systems in Nakagami-m fading channels**  
Develi I.  
IEICE TRANSACTIONS ON COMMUNICATIONS, no.12, pp.4675-4677, 2005 (SCI-Expanded)
- L. **A neuro-fuzzy computing technique for modeling laser-diode nonlinearity in a radio-over-fibre link**  
Yuksel M. E., Develi I.

INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.15, no.3, pp.329-335, 2005 (SCI-Expanded)

- LI. **Bit error rate calculation for DS-CDMA systems with WDS in the presence of Rayleigh fading and power-control error**  
Develi I., Ciftlikli C., Bagis A.  
ADVANCES IN INFORMATICS, PROCEEDINGS, vol.3746, pp.776-786, 2005 (SCI-Expanded)
- LII. **Detection of optimal spreading codes for DS-CDMA wireless systems with despreading sequences weighted by adjustable chip waveforms**  
Develi I.  
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.342, no.1, pp.69-84, 2005 (SCI-Expanded)
- LIII. **A plausible approach to determine most suitable spreading codes for a direct-sequence CDMA system**  
Ciftlikli C., Develi I.  
KUWAIT JOURNAL OF SCIENCE & ENGINEERING, vol.31, no.2, pp.235-259, 2004 (SCI-Expanded)
- LIV. **Application of multilayer perceptron networks to laser diode nonlinearity determination for radio-overfibre mobile communications**  
Develi I.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.42, no.5, pp.425-427, 2004 (SCI-Expanded)
- LIV. **Computation of the tuning values of exponential chip weighting waveforms for DS-CDMA communications over AWGN channels**  
Develi I., Ciftlikli C.  
IEE PROCEEDINGS-COMMUNICATIONS, vol.151, no.2, pp.132-136, 2004 (SCI-Expanded)
- LVI. **A modified approach to determine the most appropriate spreading codes for a DS/CDMA system with exponentially weighted despreading sequences**  
Ciftlikli C., Develi I.  
JOURNAL OF INFORMATION SCIENCE AND ENGINEERING, vol.19, no.6, pp.1041-1057, 2003 (SCI-Expanded)
- LVII. **On the use of neural network-based determination of weighted despreading sequences for a DS/CDMA system**  
Ciftlikli C., Develi I.  
ENGINEERING INTELLIGENT SYSTEMS FOR ELECTRICAL ENGINEERING AND COMMUNICATIONS, vol.11, no.3, pp.157-161, 2003 (SCI-Expanded)
- LVIII. **A simple and useful approach for the determination process of the weighted despreading sequences in a DS-CDMA system**  
Ciftlikli C., Develi I.  
EUROPEAN TRANSACTIONS ON TELECOMMUNICATIONS, vol.14, no.4, pp.361-366, 2003 (SCI-Expanded)
- LIX. **A simple method for calculating the SINR in DS-CDMA systems with despreading sequences weighted by stepping chip waveforms**  
Develi I., Ciftlikli C., Kalinli A.  
CANADIAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING-REVUE CANADIENNE DE GENIE ELECTRIQUE ET INFORMATIQUE, vol.28, pp.163-167, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **THE THERMAL EFFECTS OF 900 MHz CELL PHONES ON THE BRAIN PHANTOM**  
Sorgucu U., Develi İ.  
Bartın University International Journal of Natural and Applied Sciences, vol.5, no.2, pp.101-113, 2022 (Peer-Reviewed Journal)
- II. **Error Analysis of the Joint Localization and Synchronization of RIS-Assisted mm-Wave MISO-OFDM Under the Effect of Hardware Impairments**

Ceniklioglu B., Tubail D. A., Canbilen A. E., DEVELİ İ., İkki S. S.

IEEE Open Journal of the Communications Society, vol.3, pp.2151-2161, 2022 (ESCI)

**III. Proposal of an experimental data and image transmission system and its possible application for remote monitoring smart grids**

DEVELİ İ., KABALCI Y.

Journal Of Applied Research And Technology, vol.15, no.3, pp.303-310, 2017 (Scopus)

**IV. Mikrodenetleyici Kontrollü İki Kanallı Sayısal Osiloskop Tasarımı**

Kabalci Y., DEVELİ İ., BİLİM M.

e-Journal of New World Sciences Academy (NWSA), Engineering Sciences,, vol.6, pp.162-169, 2011 (Peer-Reviewed Journal)

**V. Improved Expression for the Average BEP of MC-CDMA Systems with MRC Diversity Reception**

DEVELİ İ.

ISTANBUL UNIVERSITY-JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.10, pp.1213-1218, 2010 (Peer-Reviewed Journal)

**VI. Analysis of the Relationship between Multipath Fading and Optimum Subcarrier Spacing for Generalized MC DS-SS-CDMA Systems**

DEVELİ İ., Şener S.

ISTANBUL UNIVERSITY JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.7, pp.373-378, 2007 (Peer-Reviewed Journal)

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

**I. BER Performance Analysis of OTFS-IM Systems under Barrage Jamming**

Alsalameh H., Develi İ., Karahan B.

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## Activities in Scientific Journals

INTERNATIONAL JOURNAL OF COMMUNICATION NETWORKS AND INFORMATION SECURITY, Committee Member, 2024  
- Continues

INTERNATIONAL JOURNAL OF MOBILE COMMUNICATIONS, Committee Member, 2010 - Continues

EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING, Assistant Editor/Section Editor, 2007 - 2022

## Scientific Refereeing

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Physical Communication, SCI Journal, November 2018

IEEE Access, SCI Journal, October 2018

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## **Metrics**

Publication: 135

Citation (WoS): 264

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## **Awards**

Develi İ., ERCİYES ÜNİVERSİTESİ 2023 ARAŞTIRMA PERFORMANS ÖDÜLLERİ, Erciyes Üniversitesi Araştırma Dekanlığı, July 2024