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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, Turkey 2003 - 2009
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, Turkey 2000 - 2003
Undergraduate, Bursa Uludağ University, Faculty Of Engineering-Architecture, Turkey 1995 - 2000

Dissertations

Doctorate, Yeni aktif eleman yapıları ve analog devre tasarımındaki uygulamaları, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2009
Postgraduate, Akım modlu filtre devrelerinin sentezi, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2003

Research Areas

Logic Design, Microprogramming and Control Structure, Printed Circuits, Thin Film, Thick Film and Hybrid ICs, Circuit Theory, Electronic Circuits

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2011 - Continues
Lecturer, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2009 - 2011
Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2000 - 2009

Academic and Administrative Experience

Vice Dean, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2020 - 2022

Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2019 - 2020

Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2016 - 2019

Deputy Head of Department, Yildiz Technical University, Faculty of Electrical & Electronics, Electronics And Communication Engineering, 2012 - 2013

Courses

Akım Modlu Devreler, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Bitirme Çalışması, Undergraduate, 2018 - 2019

Lojik Devre Tasarımı, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2012 - 2013

Tasarım Projesi, Undergraduate, 2018 - 2019

İş Hayatına Hazırlık, Undergraduate, 2018 - 2019

Bitirme Çalışması, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2009 - 2010

Çok Disiplinli Tasarım Projesi, Undergraduate, 2018 - 2019

Lojik Devreler, Undergraduate, 2018 - 2019

Bilgisayar Destekli Devre Analizi, Doctorate, 2018 - 2019

Seminer, Doctorate, 2017 - 2018

Devre ve Sistem Analizi, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Tasarım Projesi, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2009 - 2010

Seminer, Postgraduate, 2017 - 2018, 2016 - 2017, 2012 - 2013

Algoritmalar ve Programlama, Undergraduate, 2015 - 2016, 2012 - 2013, 2011 - 2012, 2010 - 2011

Elektrik Devre Temelleri, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Mesleki Terminoloji, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Supervised Theses

Ayten U. E., Özakın A., KESİRLİ MERTEBEDEN KONTROLÖR ANALİZİ VETASARIM, Postgraduate, H.ERSOY(Student), 2025

Ayten U. E., Akım çıkışlı sensörler için geçiş empedans modlu analog devre tasarımı, Postgraduate, M.TAHA(Student), 2024

Ayten U. E., HIGH VOLTAGE BATTERY SYSTEM AND MANAGEMENT ALGORITHM, Postgraduate, F.YARAT(Student), 2024

Ayten U. E., Design of a new cell balancing system for battery management systems, Postgraduate, D.KOÇYİĞİT(Student), 2023

Ayten U. E., MNovel methods for inverse problem solution in diffuse optical tomography systems, Doctorate, S.Uysal(Student), 2023

Ayten U. E., Töreyin B. U., Automated myelin quantification with microscopic fluoresence imaging, Doctorate, S.ÇİMEN(Student), 2022

Ayten U. E., Modelling of the physiological control mechanisms regulating cerebral blood flow rate, Doctorate, S.BOZKURT(Student), 2022

Ayten U. E., Transresistance based active components with advantageous circuit applications, Doctorate, M.Cem(Student), 2022

Ayten U. E., Breath Tracking System Design and Integration into the Wearable System, Postgraduate, Ü.Hancılar(Student), 2022

Ayten U. E., Mahouti P., Boosting based ensemble learning approach in microwave circuits, Doctorate, H.KALAYCI(Student), 2022

Ayten U. E., Software based analysis of lightweight cryptography algorithms on microcontrollers with different architectures, Postgraduate, R.YARALI(Student), 2022

Ayten U. E., Durak Ata L., Design a novel multiple access scheme for massive machine type communication, Doctorate, F.TEKÇE(Student), 2021

Ayten U. E., Aktif Elemanlar İle Faz İlerlemeli, Gecikmeli Kompansatör ve Kontrolör Devrelerinin Tasarımı, Postgraduate, Y.BUZCU(Student), 2019

Ayten U. E., Video Sinyallerinde Hareket Tespit Uygulaması, Postgraduate, K.GENÇAY(Student), 2019

Ayten U. E., Elektrikli araçlar için batarya yönetim sistemi tasarımı, Postgraduate, H.SERHAT(Student), 2018

Ayten U. E., Genel amaçlı bir bellek arayüzü donanımının alanda programlanabilir kapı dizileri ile gerçeklenmesi, Postgraduate, D.DAVUTOĞLU(Student), 2018

Ayten U. E., Hareket edebilen elektronik ve genel amaçlı sibernetik el ve kol sistemi, Postgraduate, E.TATLI(Student), 2018

Ayten U. E., Yapay sinir ağları kullanarak görüntü işlemeye dayalı ağırlık tahmini, Postgraduate, Ü.BURAK(Student), 2017

Ayten U. E., EEG SİNYALLERİNİN BEYİN MAKİNE ARAYÜZÜ AMAÇLI KULLANIMI, Postgraduate, S.ÇAKIR(Student), 2016

Ayten U. E., AKTİF ELEMANLAR İLE LİNEER OLMAYAN DEVRE TASARIMI VE UYGULAMALARI, Postgraduate, S.Erkan(Student), 2016

Ayten U. E., Novel multi-terminal building blocks with tuning ability and its application in analog signal processing, Postgraduate, A.KARTCI(Student), 2015

Ayten U. E., İnce tabakalı çift bant durduran frekans seçici yüzey tasarımı, Postgraduate, S.ÜNALDI(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. **In-silico Evaluation of the effects of blood flow rate change in ductus arteriosus on cardiac function and cerebral blood flow rate in term and preterm infants**
Bozkurt S., Bal R., Engin Ayten U. E.
Biomedical Signal Processing and Control, vol.97, 2024 (SCI-Expanded)

II. **CC-CBTA-Based Floating Inductance Simulator with CM/VM PID Controllers**
Sagbas M., ÇAM TAŞKIRAN Z. G., AYTEN U. E.
Journal of Circuits, Systems and Computers, vol.33, no.8, 2024 (SCI-Expanded)

III. **Current-mode PID controllers employing commercially available active components**
Yurdem B., Sagbas M., AYTEN U. E.
AEU - International Journal of Electronics and Communications, vol.175, 2024 (SCI-Expanded)

IV. **COMPUTATIONAL SIMULATION OF THE INTERACTION AMONG AUTOREGULATION MECHANISMS REGULATING CEREBRAL BLOOD FLOW RATE IN SYSTOLIC HEART FAILURE**
Bozkurt S., Ayten U. E.
Journal of Biological Systems, vol.31, no.1, pp.69-91, 2023 (SCI-Expanded)

V. **Short range electromagnetic interface using 0.35 μm CMOS blocks for temperature monitoring in isolated areas**
Sotner R., Jerabek J., Polak L., Prokop R., Ayten U. E., Jaikla W.
Journal of Advanced Research, vol.41, pp.49-62, 2022 (SCI-Expanded)

VI. **Novel regularization method for diffuse optical tomography inverse problem**
Uysal S., Uysal H., Ayten U. E.
Optik, vol.261, 2022 (SCI-Expanded)

VII. **In silico simulation of the interaction among autoregulatory mechanisms regulating cerebral blood flow rate in the healthy and systolic heart failure conditions during exercise**
Bozkurt S., Ayten U. E.

MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.60, no.7, pp.1863-1879, 2022 (SCI-Expanded)

VIII. **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)

IX. **A New Simulated Grounded Inductor Based on Two NICs, Two Resistors and a Grounded Capacitor**
Yuce E., Alpaslan H., Minaei S., Ayten U. E.
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.40, no.12, pp.5847-5863, 2021 (SCI-Expanded)

X. **SCMA System Design with Index Modulation via Codebook Assignment**
Tekçe F., Ayten U. E., Durak Ata L.
IEEE Transactions On Vehicular Technology, vol.70, no.2, pp.1699-1708, 2021 (SCI-Expanded)

XI. **Myelin detection in fluorescence microscopy images using machine learning**
Çimen Yetiş S., Çapar A., Ekinci D. A., Ayten U. E., Kerman B. E., Töreyin B. U.
JOURNAL OF NEUROSCIENCE METHODS, vol.346, 2020 (SCI-Expanded)

XII. **A novel lead and lag compensator circuit employing a single current feedback operational amplifier**
Buzcu Y., Topaloglu S., Ayten U. E., Sağbaş M.
MICROELECTRONICS JOURNAL, vol.105, 2020 (SCI-Expanded)

XIII. **A new universal mutator circuit for memcapacitor and meminductor elements**
Çam Taşkıran Z. G., Sağbaş M., Ayten U. E., Sedef H.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.119, 2020 (SCI-Expanded)

XIV. **Design of Wide Bandwidth, High-CMRR Voltage and Transadmittance-Mode Instrumentation Amplifier Using a Single CBTA**
Sağbaş M., Ayten U. E.
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.29, 2020 (SCI-Expanded)

XV. **Dual-Output Operational Transconductance Amplifier-Based Electronically Controllable Memristance Simulator Circuit**
Taskiran Z. G., Ayten U. E., Sedef H.
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.38, pp.26-40, 2019 (SCI-Expanded)

XVI. **A voltage-mode PID controller using a single CFOA and only grounded capacitors**
Ayten U. E., Yuce E., Minaei S.
MICROELECTRONICS JOURNAL, vol.81, pp.84-93, 2018 (SCI-Expanded)

XVII. **Resistorless Current-Mode First-Order All-Pass Filter with Electronic Tuning Employing Low-Voltage CBTA and Grounded Capacitor**
Herencsar N., Koton J., Lahiri A., Ayten U. E., Sagbas M.
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.27, 2018 (SCI-Expanded)

XVIII. **Current and transimpedance mode instrumentation amplifier using a single new active component named CDTRA**
Dikbaş M. C., Ayten U. E.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.91, pp.24-36, 2018 (SCI-Expanded)

XIX. **Voltage difference transresistance amplifier and its application: floating FDNR simulator circuit**
Dikbaş M. C., Ayten U. E.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.105, pp.1716-1727, 2018 (SCI-Expanded)

XX. **Memristor emulator circuits using single CBTA**
Ayten U. E., Minaei S., Sagbas M.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.82, pp.109-118, 2017 (SCI-Expanded)

XXI. **Modified Gorski-Popiel Technique and Synthetic Floating Transformer Circuit Using Minimum Components**
Sagbas M., Ayten U. E., Sedef H., Minaei S.
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.26, 2017 (SCI-Expanded)

XXII. **A Novel Dual-Band Ultrathin FSS With Closely Settled Frequency Response**
Unaldi S., Çimen S., Çakır G., Ayten U. E.
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.16, pp.1381-1384, 2017 (SCI-Expanded)

XXIII. **Component reduced current-mode full-wave rectifier circuits using single active component**
Sagbas M., Minaei S., Ayten U. E.
IET CIRCUITS DEVICES & SYSTEMS, vol.10, pp.1-11, 2016 (SCI-Expanded)

XXIV. **Realization of Low-Voltage Modified CBTA and Design of Cascadable Current-Mode All-Pass Filter**
Ayten U. E., Sagbas M., Minaei S.
RADIOENGINEERING, vol.23, pp.523-531, 2014 (SCI-Expanded)

XXV. **Current and Voltage Mode Multiphase Sinusoidal Oscillators Using CBTAs**
Sagbas M., Ayten U. E., Herencsar N., Minaei S.
RADIOENGINEERING, vol.22, pp.24-33, 2013 (SCI-Expanded)

XXVI. **Realization of New Mutually Coupled Circuit Using CC-CBTAs**
Koksal M., Ayten U. E., Sağbaş M.
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.31, pp.435-446, 2012 (SCI-Expanded)

XXVII. **Novel Floating General Element Simulators Using CBTA**
Ayten U. E., Sagbas M., Herencsar N., Koton J.
RADIOENGINEERING, vol.21, pp.11-19, 2012 (SCI-Expanded)

XXVIII. **Reply to comment on "Electronically tunable floating inductance simulator"**
Sagbas M., Ayten U. E., Sedef H., Koksal M.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.66, pp.86-88, 2012 (SCI-Expanded)

XXIX. **Electronically tunable sinusoidal oscillator circuit with current and voltage outputs**
Ayten U. E., Sagbas M., Sedef H.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.99, pp.1133-1144, 2012 (SCI-Expanded)

XXX. **Current mode leapfrog ladder filters using a new active block**
Ayten U. E., Sagbas M., Sedef H.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.64, pp.503-511, 2010 (SCI-Expanded)

XXXI. **Current and voltage transfer function filters using a single active device**
Sagbas M., Ayten U. E., Sedef H.
IET CIRCUITS DEVICES & SYSTEMS, vol.4, pp.78-86, 2010 (SCI-Expanded)

XXXII. **Floating Immittance Function Simulator and Its Applications**
Sagbas M., Ayten U. E., Sedef H., Koksal M.
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.28, pp.55-63, 2009 (SCI-Expanded)

XXXIII. **Electronically tunable floating inductance simulator**
Sagbas M., Ayten U. E., Sedef H., Koksal M.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.63, pp.423-427, 2009 (SCI-Expanded)

Articles Published in Other Journals

I. **A multi-spectral myelin annotation tool for machine learning based myelin quantification [version 1; peer review: 1 not approved]**
Çapar A., Yetiş S. Ç., Aladağ Z., Ekinci D. A., AYTEN U. E., Kerman B. E., Töreyin B. U.
F1000Research, vol.9, pp.1-10, 2021 (Scopus)

II. **A multi-spectral myelin annotation tool for machine learning based myelin quantification**
Çapar A., Çimen S., Aladağ Z., Ekinci D. A., Ayten U. E., Kerman B. E., Töreyin B. U.
F1000Research, vol.9, pp.1492, 2020 (Scopus)

III. **Yapay sinir ağları ile görüntü işlemeye dayalı uzaklıktan bağımsız ağırlık tahmin sistemi: yumurta ve**

portakal örnekleri

Şalvarcı Ü. B., AYTEN U. E.

Journal of Geodesy and Geoinformation, vol.6, no.1, pp.26-46, 2019 (Peer-Reviewed Journal)

IV. **MCBTA Aktif Elemanı Kullanılarak Akım Modlu Dikgen Sinüsoidal Osilatör Devresi Tasarımı**

Ayten U. E.

Mühendislik Bilimleri ve Tasarım Dergisi, vol.6, no.1, pp.130-138, 2018 (Peer-Reviewed Journal)

V. **Çevrimiçi Çalışabilen Çoklu Ortama Uygun Hasta İzleme Sistemi**

Demirtaş M., Tulum G., Sağbaş M., Ayten U. E.

Sakarya University Journal Of Science, vol.22, no.1, pp.1-7, 2018 (Peer-Reviewed Journal)

Books

I. **Boosting - Based modelling of frequency selective surfaces**

MAHOUTİ 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 kitapliği, pp.105-129, 2021

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

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

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

III. **Lojik Devreler Laboratuarı Deney Kitabı**

Uzun T., Ayten U. E., Alpay M., Yıldız N.

Yıldız Teknik Üniversitesi Basım-Yayın Merkezi, İstanbul, 2008

Refereed Congress / Symposium Publications in Proceedings

I. **PIλDμ Approach for High-Efficiency BLDC Motor Control**

ERSOY H., AKGÜL B., AKPINAR E., ÖZAKIN A., AYTEN U. E.

2024 15th National Conference on Electrical and Electronics Engineering (ELECO), Turkey, 28 - 30 November 2024

II. **Digital Realization of PIλDμ Controllers: Performance Evaluation on MCUs and FPGAs**

AKGÜL B., ERSOY H., AKPINAR E., ÖZAKIN A., AYTEN U. E.

IEEE International Conference on Electronics Circuits & Systems (ICECS), Nancy, France, 18 - 20 November 2024

III. **A Robust Speed Controller Design for PMSM Using PIλDμ Controllers**

ERSOY H., AKGÜL B., AKPINAR E., ÖZAKIN A., AYTEN U. E.

47th International Conference on Telecommunications and Signal Processing, TSP 2024, Virtual, Online, Czech Republic, 10 - 12 July 2024, pp.289-293

IV. **Elektrikli Araçlar için DC/DC Dönüştürücü Tabanlı Aktif Dengeleme Sistemi Tasarımı**

Yarat F., Ayten U. E.

18th International Scientific Research Congress (UBAK), Ankara, Turkey, 16 - 17 December 2023, pp.1

V. **Transimpedance Amplifier Design and Performance Comparison for Photoelectric Cells**

Kavlak M. T., Ayten U. E.

2023 14th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2023, pp.1-5

VI. **Numerical Assessment of the Effects of Ductus Arteriosus Closure on Cerebral Blood Flow Rate in Newborn Infants**

Bozkurt S., Ayten U. E.

2023 Medical Technologies Congress (TIPTEKNO), Gazimagusa, Cyprus (Kktc), 10 - 12 November 2023, pp.1-4

VII. **Performance Analysis of Fractional Order Band Pass Filter Kesir Dereceli Bant Geçiren Filtrenin Performans Analizi**
Yokuş Y. E., Özakin A., AYTEN U. E.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023

VIII. **Hybrid Battery Balancing System for Electric Drive Vehicles**
Koçyiğit D., Ayten U. E.
2nd International Conference on Technology (IConTech), Antalya, Turkey, 16 - 19 November 2022, pp.47-54

IX. **Breath Tracking System Design with Velostat**
Hancilar U., AYTEN U. E.
2021 Medical Technologies Congress (TIPTEKNO), Antalya, Turkey, 04 November 2021

X. **Breath Tracking System Design with Velostat - Velostat ile Nefes Takip Sistemi Tasarımı**
Hancılar Ü., Ayten U. E.
2021 Medical Technologies Congress, TIPTEKNO'21, Antalya, Turkey, 4 - 06 November 2021, pp.1-4

XI. **Regional Resistance Value Optimization of Cerebral Blood Circulation**
Bozkurt S., Ayten U. E.
8th International Conference on Electrical and Electronics Engineering, ICEEE 2021, Antalya, Turkey, 9 - 11 April 2021, pp.234-237

XII. **Telemetry system for electronic systems Elektronik Sistemler İçin Telemetri Sistemi**
Arslan C., Elaydın Y. E., Salış Z. C., Ayten U. E.
12th International Conference on Electrical and Electronics Engineering, ELECO 2020, Bursa, Turkey, 26 - 28 November 2020, pp.97-102

XIII. **Myelin segmentation in fluorescence microscopy images Floresan mikroskop görüntülerinde miyelin segmentasyonu**
Yetis S., Ekinci D. A., Cakir E., Ekşioğlu E. M., AYTEN U. E., Çapar A., Töreyin B. U., Kerman B. E.
2019 Medical Technologies Congress, TIPTEKNO 2019, İzmir, Turkey, 3 - 05 October 2019

XIV. **Smart Sensor for Home Appliances**
HAYDAR E., AYTEN U. E., KAHRAMAN N.
2018 6th International Conference on Control Engineering Information Technology (CEIT), 25 - 27 October 2018

XV. **Diffuz Optik Tomografide Ters Problem ve Genetik Algoritma İle Regülarizasyon Parametresi Seçimi**
UYSAL S., UYSAL H., AYTEN U. E.
4. Uluslararası Bilimsel Araştırmalar Kongresi, Yalova, Turkey, 14 - 17 February 2019, pp.307-318

XVI. **DİFFÜZ OPTİK TOMOGRAFİDE TERS PROBLEM VE GENETİK ALGORİTMA İLE REGÜLARİZASYON PARAMETRESİ SEÇİMİ**
Uysal S., Uysal H., Ayten U. E.
4. Uluslararası Bilimsel Araştırmalar Kongresi, Yalova, Turkey, 14 - 17 February 2019, pp.1-4

XVII. **Machine Learning Based Myelin Detection on Fluorescence Images**
Çimen Yetiş S., Çapar A., Ekinci D. A., Ayten U. E., Kerman B. E., Töreyin B. U.
The 3rd NEUBIAS Conference,, Luxembourg, Luxembourg, 2 - 08 February 2019, pp.118

XVIII. **Modular Electrical Control System for Small ScaleUnderwater Vehicles**
Eren R. K., Alan M. E., Tufan B., Erbil E., Ayten U. E.
CEIT 2018, the 6th International Conference on Control Engineering Information Technology, İstanbul, Turkey, 25 October 2018, pp.1

XIX. **Smart Sensor for Home Appliances**
Haydar E., Ayten U. E., Kahraman N.
CEIT 2018 6th International Conference on Control Engineering Information Technology, İstanbul, Turkey, 25 October 2018, pp.1

XX. **Demo: Real-Time Video Frame Differentiator Based on External Memory Interface**
Davutoğlu D., Yıldız N., Tavşanoğlu A. V., Ayten U. E.
CNNA 2018 The 16th International Workshop on Cellular Nanoscale Networks and their Applications, Budapest,

Hungary, 28 - 30 August 2018, pp.1

XXI. **Akım-Modlu Faz İlerlemeli ve Gecikmeli Kompansatör DevresiTasarımıDesign of Current-Mode Lead and Lag Compensator Circuit**
Buzcu Y., Sağbaş M., Ayten U. E.
TOK2018 Otomatik Kontrol Ulusal Toplantısı, Kayseri, Turkey, 12 September 2018, pp.172-176

XXII. **Real-Time Video Frame Differentiator Based onDDR3 SDRAM Memory Interface**
Davutoğlu D., Yıldız N., Tavşanoğlu A. V., Ayten U. E.
CNNA 2018 The 16th International workshop on cellular nanoscale networks and their applications, Budapest, Hungary, 28 August 2018, pp.1-3

XXIII. **The effect of codebook design on the BER performance of MTC systems employing SCMA SCMA kullanilan MTC sistemlerde kod kitabi tasariminin bit hata orani performansina etkileri**
Tekçe F., Çatak E., Ayten U. E., Durak-Ata L.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4

XXIV. **Elektrikli Araçlar İçin Batarya Yönetim Sistemi Tasarımı**
Gül H. S., Ayten U. E.
9th International Automotive Technologies Congress, Bursa, Turkey, 07 May 2018, pp.1

XXV. **Automated Myelin Quantification From Cem to DeepMQ**
ÇİMEN S., ÇAPAR A., Ekinci D. A., AYTEN U. E., TÖREYİN B. U., KERMAN B. E.
Neubias The Bioimage Analysis Community Conference, Szeged, Hungary, 31 January - 02 February 2018, pp.121

XXVI. **DeepMQ: A Deep Learning Approach Based Myelin Quantification in Microscopic Fluorescence Images**
Cimen S., Çapar A., Ekinci D. A., Ayten U. E., Kerman B. E., Töreyin B. U.
European Signal Processing Conference (EUSIPCO), Rome, Italy, 3 - 07 August 2018, pp.61-65

XXVII. **Real-time frame buffer implementation based on external memory using FPGA**
Davutoglu D., Yıldız N., Ayten U. E., Tavsanoglu V.
8th International Congress of Information and Communication Technology, ICICT 2018, Xiamen, China, 27 - 28 January 2018, vol.131, pp.641-646

XXVIII. **Distance independent weight estimation of eggs from images using artificial neural networks Yapay Sinir Ağlari Kullanilarak Imgelerden Yumurta Ağirlinin Uzakliktan Ba ğimsiz Sezimi**
Şalvarcı U. B., Ayten U. E.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017

XXIX. **New tunable resistorless CM first-order filter based on single CBTA and grounded capacitor**
Herencsar N., Koton J., Sagbas M., Ayten U. E.
59th IEEE International Midwest Symposium on Circuits and Systems, MWSCAS 2016, Abu Dhabi, United Arab Emirates, 16 - 19 October 2016

XXX. **Inductance simulator based on dual controlled CMOS voltage differencing current conveyor**
Jerabek J., Sotner R., Prokop R., Kledrowetz V., Kartçı A., Ayten U. E.
59th IEEE International Midwest Symposium on Circuits and Systems, MWSCAS 2016, Abu Dhabi, United Arab Emirates, 16 - 19 October 2016

XXXI. **Görme Engelliler İçin Engel Mesafe Tespiti Sistemi Obstacle Distance Detection System For Sight-Disabled People**
Kanay N., Ayten U. E.
016 National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 01 December 2016, pp.120-124

XXXII. **Dijital Uydu Alıcılarının Beden Hareketlerinin Ve SesKomutlarının Algılanmasıyla Kontrol Edilip UzaktanErişim İle Kullanım Kolaylığının Sağlanması**
Ağlamış S., Köprülü M., Ayten U. E., Eşit D.
10th Turkish National Software Engineering Symposium, Çanakkale, Turkey, 24 October 2016, pp.420-425

XXXIII. **Design of Wireless Sensor Network for Internet of Things Structure**
Cetin R., Kadioglu T., Cesur E., Ayten U. E.

National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.402-405

XXXIV. **Floating Capacitance Multiplier Simulator for Grounded RC Colpitts Oscillator Design**
Kartçı A., Ayten U. E., Herencsar N., Sotner R., Jerabek J., Vrba K.
2015 International Conference on Applied Electronics, Plzen, Czech Republic, 08 September 2015, pp.93-96

XXXV. **Application possibilities of VDCC in general floating element simulator circuit**
Kartci A., AYTEN U. E., Herencsar N., Sotner R., Jerabek J., Vrba K.
European Conference on Circuit Theory and Design, ECCTD 2015, Trondheim, Norway, 24 - 26 August 2015

XXXVI. **Current-Mode Full-Wave Rectifier Circuits Using Current Differencing Buffered Amplifier**
Erkan S., Ayten U. E., Sağbaş M.
Telecommunications and Signal Processing (TSP), 2015 38th International Conference on, Praha, Czech Republic, 9 - 11 July 2015, pp.344-348

XXXVII. **Electronically Tunable Universal Biquad Using a Single Active Component**
Sağbaş M., Ayten U. E., Köksal M., Herencsar N.
37th International Conference on Telecommunications and Signal Processing (TSP2014), Praha, Czech Republic, 09 July 2015, pp.698-702

XXXVIII. **Electronically Tunable VDCC-Based Floating Capacitance Multiplier**
Kartci A., Ayten U. E., Sotner R., Arslanalp R.
23nd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2474-2477

XXXIX. **İnce Tabakalı Dar-Dual Bant Frekans Seçici Yüzey TasarımıThin Layer Narrow-Dual Band Frequency Selective Surface Design**
Ünaldı S., Çakır G., Çimen S., Ayten U. E.
Eleco 2014 Elektrik – Elektronik – Bilgisayar ve Biyomedikal Mühendisliği Sempozyumu, Bursa, Turkey, 27 - 29 November 2014, pp.487-490

XL. **Evolutionary Algorithms Based Analog Filter Approximation and Implementation**
Acar Vural R., Ayten U. E.
2014 IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Bari, Italy, 23 June 2014, pp.381-388

XLI. **Evolutionary Algorithms Based Analog Filter Approximation**
Vural R., Ayten U. E.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1271-1274

XLII. **Optimization of High Pass Filter Approximation with Evolutionary Algorithms**
AYTEN U. E., Vural R.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

XLIII. **Design of Dominantly Proportional PID Controller Using a Single Commercially Available Active Component**
Sagbas M., Koksal M., Ayten U. E.
36th International Conference on Telecommunications and Signal Processing (TSP), Rome, Italy, 2 - 04 July 2013, pp.427-430

XLIV. **Optimized Analog Filter Approximation via Evolutionary Algorithms**
Acar Vural R., Ayten U. E.
2012 12th International Conference on Intelligent Systems Design and Applications (ISDA), Kochi, India, 27 November 2012, pp.485-490

XLV. **Voltage-mode multiphase sinusoidal oscillators using CBTAs**
Sağbaş M., Ayten U. E., Herencsar N., Minaei S.
35th International Conference on Telecommunications and Signal Processing-TSP-2012, Praha, Czech Republic, 3 - 04 July 2012, vol.1, pp.421-425

XLVI. **The feature extraction and classification of maternal cigarette-smoking signatures by euclidean distance method and alternative neural networks**

Saatçi-Ayten T., Ayten U. E., Yavuz O., Özyılmaz L.

9th IASTED International Conference on Biomedical Engineering, BioMed 2012, Innsbruck, Austria, 15 - 17 February 2012, pp.565-568

XLVII. **Low-pass filter approximation with evolutionary techniques**

Ayten U. E., Vural R. A., Yıldırım T.

7th International Conference on Electrical and Electronics Engineering, ELECO 2011, Bursa, Turkey, 1 - 04 December 2011

XLVIII. **Novel Floating FDNR, Inductor and Capacitor Simulator Using CBTA**

Ayten U. E., Sağbaş M., Herencsar N., Koton J.

34th International Conference on Telecommunications and Signal Processing (TSP-2011), Budapest, Hungary, 18 August 2011, vol.1, pp.312-316

XLIX. **New MOS-C realization of transadmittance type all-pass filter using modified CBTA**

Lahırı A., Koton J., Sağbaş M., Ayten U. E., Vrba K.

Applied Electronics (AE), 2011 International Conference on, Plzen, Czech Republic, 07 September 2011, pp.1-3

L. **A new compact CMOS realization of sinusoidal oscillator using a single modified CBTA**

KOTON J., VRBA K., LAHIRI A., AYTEN U. E., SAĞBAŞ M.

21st International Conference on Radioelektronika

LI. **Birinci Dereceden Elektronik Ayarlanabilir Alçak Geçiren Süzgecin Logaritmik Ortamda Tasarımı**

Küçükkoç N., Ayten U. E., Sedef H.

Elektrik, Elektronik, Bilgisayar, Biyomedikal Mühendisliği 13. Ulusal Konferansı, Ankara, Turkey, 23 December 2009, vol.1, pp.245-250

LII. **Mikrodenetleyicili Osiloskop ve Bode Diyagramı Çizici**

Sadıç F., Ayten U. E., Sedef H.

Otomatik Kontrol Türk Milli Komitesi Otomatik Kontrol Ulusal Toplantısı (TOK-2009), İstanbul, Turkey, 13 October 2009, vol.1, pp.3-4

LIII. **Current-Mode SITO Filter Using a Single Active Component**

Ayten U. E., Sagbas M., Sedef H.

European Conference on Circuit Theory Design, Antalya, Turkey, 23 - 27 August 2009, pp.133-0

LIV. **CDBA Gerçeklemesi ve Basamaklı Türden LC Devre Simülasyonu**

Ayten U. E., Sedef H.

ELECO 2004 Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 8 - 12 December 2004

Supported Projects

Çimen S., Yıldırım T., Ayten U. E., Düdükçü H. V., TUBITAK Project, Insulai: Akıllı İnsülin Pompa Yazılımlarının Kişiselleştirmesine Yönelik Yapay Zeka Destekli Hasta Modelleme Yöntemi Geliştirilmesi, 2024 - 2026

Keskin O., Ayten U. E., Zorlu Partal S., TUBITAK Project, Otonom Araçlar İçin Çok Fonksiyonlu Araç Kontrol Sistemi Tasarımı, 2022 - 2023

AYTEN U. E., Hancılar Ü., KAHRAMAN N., Project Supported by Higher Education Institutions, Nefes Takip Sistemi Tasarımı ve Giyilebilir Sisteme Entegresi, 2021 - 2023

Kıyan T., Bolat B., Ayten U. E., Kahraman N., Project Supported by Higher Education Institutions, Beyin-Bilgisayar Arayüzü ile P300 Tabanlı Karar Sistemi Geliştirilmesi, 2014 - 2017

Yıldırım T., Kahraman N., Ayten U. E., Bolat B., Erkmen B., Acar Vural R., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Siber Güvenlik ve Biyometrik Araştırmalar Danışmanlık ve Test Merkezi Kurulumu, 2014 - 2016

Yıldırım T., Kahraman N., Bolat B., Acar Vural R., Erkmen B., Ayten U. E., Müftüoğlu Z., Kurban O. C., Uysal H., Uysal S., Development Agency, Cyber Security and Biometric Research Consultancy and Test Center, 2014 - 2016

Ayten U. E., Sağbaş M., Bolat B., Akman A., Project Supported by Other Official Institutions, İşitme ve Görme Engelliler İçin Kablosuz Bilgi ve Uyarı Sistemi, 2014 - 2016

Barut L., Şahin H. Ç., Ayten U. E., TUBITAK Project, BLUETOOTH KONTROLLÜ SINIF MEVCUDU TAKİP SİSTEMİ, 2015 - 2015

Eşit D., Ağlamış S., Ayten U. E., TUBITAK Project, DİJİTAL UYDU ALICILARININ VÜCUT EL HAREKETLERİNİN VE SES KOMUTLARININ ALGILANMASIYLA KONTROL EDİLİP UZAKTAN ERİŞİM İLE KULLANIM KOLAYLIĞININ SAĞLANMASI, 2015 - 2015

AYTEN U. E., Project Supported by Higher Education Institutions, EEG Sinyalleri Kullanarak Beyin Bilgisayar Arayüzü Tasarımı, 2014 - 2015

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