

## Asst. Prof. AYŞE YAYLA

### Personal Information

**Email:** acetinkaya@marmara.edu.tr

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### International Researcher IDs

ScholarID: 16I6YmwAAAAJ

ORCID: 0000-0002-1611-6353

Yoksis Researcher ID: 50039

### Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Turkey 2007 - 2018

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Turkey 2005 - 2007

Undergraduate, Marmara University, Faculty of Technical Education, Electronic and Computer Education, Turkey 1997 - 2002

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Konuşma Tanıma Teknolojisi Kullanılarak Devre Tasarım ve Analizi, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Elektronik Ve Bilgisayar Eğitimi (Dr), 2018

Postgraduate, Telekomünikasyon dersi laboratuvar çalışmalarının internet üzerinden gerçek zamanlı uygulamaları, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Elektronik-Haberleşme Eğitimi (YI) (Tezli), 2007

### Research Areas

Electrical and Electronics Engineering, Electronic Circuits, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Marmara University, Vocational School of Technical Sciences, Electronics and Automation, 2022 - Continues

Research Assistant PhD, Marmara University, Vocational School of Technical Sciences, Electronics and Automation, 2018 - 2022

Research Assistant, Marmara University, Vocational School of Technical Sciences, Electronics and Automation, 2016 - 2018

Research Assistant, Marmara University, Vocational School of Technical Sciences, Technical Programs, 2003 - 2016

## Academic and Administrative Experience

Deputy Head of Department, Marmara University, Vocational School of Technical Sciences, Electronics and Automation, 2019 - Continues

## Courses

### Undergraduate

Gömülü Sistemler , Undergraduate, 2021 - 2022

Mantık Devreleri, Undergraduate, 2021 - 2022

### Associate Degree

Digital Circuit Design, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Circuit Design, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Circuit Design, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Circuit Design, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Circuit Design, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Circuit Design, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Sayısal Elektronik , Associate Degree, 2021 - 2022

Graduation Project, Associate Degree, 2019 - 2020

Digital Electronics , Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Electronics, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Electronics , Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Electronics, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Digital Electronics , Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Analog Communication, Associate Degree, 2020 - 2021, 2019 - 2020

Digital Electronics, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Computerized Data Collection and Control, Associate Degree, 2019 - 2020, 2018 - 2019

Analog Comunication, Associate Degree, 2019 - 2020

Computer Aided Circuit Design, Associate Degree, 2018 - 2019

## Supervised Theses

Ak A., Yayla A., Haberleşme Sistemleri için Akıllı Deney Seti Tasarımı", Postgraduate, A.YILMAZ(Student), Continues

## Research Infrastructure Information

Aydın S., Ak A., Kesen U., Yayla A., Sarıkaş A., FİBER OPTİK LABORATUVARI, January 2013

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

- I. **Technical teacher training program for engineering integration in K-12 education**  
Bal S., Sarıkaş A., Yayla A., Başpınar U., Altınay S., Baba A. F., Erdal H., Korkmaz H.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.32, no.4, pp.1-16, 2024 (SCI-Expanded)
- II. **Development of a remote laboratory for an electronic circuit design and analysis course with increased accessibility by using speech recognition technology**

Yayla A., Korkmaz H., Buldu A., Sarıkaş A.

Computer Applications in Engineering Education, vol.29, pp.897-910, 2021 (SCI-Expanded)

III. **Fiber optic training program with intensive experiments using both real laboratory and simulation environments**

Aydın S., Sarıkaş A., Ak A., Yayla A., Kesen U., Oral B.

COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.27, pp.1419-1428, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Design and Testing of a Wireless Communication Enabled FPGA Development Board: A Comprehensive Education and Application Platform from IoT to Circuit Design**  
KARAGEDİK N., BAL S., YAYLA A.  
European Journal of Technique, vol.13, no.2, pp.123-129, 2023 (Peer-Reviewed Journal)
- II. **ÖNLİSANS ÖĞRENCİLERİNİN DÖNEM ARASI YAPTIKLARI STAJIN AKADEMİK BAŞARILARINA ETKİSİNİN İNCELENMESİ**  
Polat Z., Sarıkaş A., Ceviz N., Tektaş N., Yayla A., Tektaş M.  
Eğitim ve Öğretim Araştırmaları Dergisi, vol.7, pp.1-7, 2018 (Peer-Reviewed Journal)
- III. **ÖNLİSANS ÖĞRENCİLERİNİN SOSYO-DEMOGRAFİK-EKONOMİK STATÜLERİNİN ALIŞVERİŞ DAVRANIŞ BİÇİMLERİNE ETKİLERİ**  
Yayla A., Tektaş N., Ceviz N., Sarıkaş A., Polat Z., Tektaş M.  
Eğitim ve Öğretim Araştırmaları Dergisi, vol.7, pp.8-18, 2018 (Peer-Reviewed Journal)
- IV. **ÖNLİSANS ÖĞRENCİLERİNİN DEMOGRAFİK ÖZELLİKLERİNİN İNTERNET VE SOSYAL AĞLARI KULLANMA BECERİLERİ ÜZERİNDEKİ ETKİSİ**  
POLAT Z., TEKTAŞ N., TEKTAŞ M., CEVİZ N., SARIKAŞ A., YAYLA A.  
İstanbul Sosyal Bilimler Dergisi, pp.64-80, 2017 (Peer-Reviewed Journal)
- V. **Uzaktan Erişimli Mikrogenetleyici Laboratuvarı**  
SARIKAŞ A., YAYLA A.  
Eğitim ve Öğretim Araştırmaları Dergisi, vol.6, pp.283-296, 2017 (Peer-Reviewed Journal)
- VI. **Konuşma Sesi Bozukluklarının Düzeltilmesine Yönelik Eğitim Platformu Tasarımı**  
Ak A., Sarıkaş A., Yayla A.  
Bilişim Teknolojileri Dergisi, vol.10, pp.241-246, 2017 (Peer-Reviewed Journal)
- VII. **MESLEK YÜKSEKOKULLARINDA ÖĞRENİM GÖREN GENÇLERİN GİRİŞİMCİLİK EĞİLİMLERİ ÜZERİNE BİR ARAŞTIRMA**  
Ceviz N., Tektaş M., Yayla A., Tektaş N., Sarıkaş A., Polat Z.  
Eğitim ve Öğretim Araştırmaları Dergisi, vol.5, pp.319-331, 2016 (Peer-Reviewed Journal)
- VIII. **ÖN LİSANS ÖĞRENCİLERİNİN STAJ UYGULAMALARININ DEĞERLENDİRİLMESİ MARMARA ÜNİVERSİTESİ ÖRNEĞİ**  
Tektaş N., Yayla A., Sarıkaş A., Polat Z., Tektaş M., Ceviz N.  
Eğitim ve Öğretim Araştırmaları Dergisi, vol.5, pp.310-318, 2016 (Peer-Reviewed Journal)
- IX. **KONUŞMA TANIMA TEKNOLOJİSİ KULLANILARAK DEVRE ANALİZİ UYGULAMA ARAYÜZÜ**  
YAYLA A., KORKMAZ H., BULDU A.  
Eğitim ve Öğretim Araştırmaları Dergisi, vol.5, pp.169-172, 2016 (Peer-Reviewed Journal)
- X. **A SURVEY FOR EXAMINATION OF FORMS OF SHOPPING BEHAVIOUR A CASE STUDY FOR VOCATIONAL SCHOOL**  
Polat Z., Tektaş M., Tektaş N., Ceviz N., Sarıkaş A., Yayla A.  
JOURNAL OF EDUCATIONAL AND INSTRUCTIONAL STUDIES IN THE WORLD, vol.6, pp.40-49, 2016 (Peer-Reviewed Journal)
- XI. **IMPACT OF ADVERTISEMENTS IN SOCIAL MEDIA ON PURCHASING BEHAVIOUR OF ASSOCIATE STUDENTS**  
Sarıkaş A., Ceviz N., Tektaş M., Yayla A., Tektaş N., Polat Z.

JOURNAL OF EDUCATIONAL AND INSTRUCTIONAL STUDIES IN THE WORLD, vol.6, pp.32-39, 2016 (Peer-Reviewed Journal)

**XII. A LabVIEW Based Remotely Controllable and Accessible Laboratory Platform For Communication Systems II Lecture Experiments**

AKAR A., YAYLA A., ERDER .

Gazi University Journal of Science (GU J Sci), 2014 (Peer-Reviewed Journal)

**XIII. Using an Artificial Neural Network Approach for Supplier Evaluation Process and a Sectoral Application**

YAYLA A., HARTOMACIOĞLU S.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.17, no.2, pp.97-107, 2011 (ESCI)

**XIV. Web based real time remote laboratory with labview access for analog and digital communication courses**

Yayla A., Akar A.

IU-IEEE, vol.8, pp.671-681, 2008 (Peer-Reviewed Journal)

## Books

**I. Fiber Optic Transmission Line Installation and Measurement**

AYDIN S., SARIKAŞ A., YAYLA A., AK A., KESEN U., BÖCEKÇİ V. G., BAŞPINAR U., ORAL B.

Lap Lambert, 2016

**II. Fiber Optik Uygulamaları**

Kesen U., Yayla A., Aydın S., Sarıkaş A., Böcekçi V. G., Başpınar U., Çetinkaya O., Şenol K., Rifat T.

PROJE KİTABI, İstanbul, 2013

**III. Web Based Real Time Laboratory Applications of Analog and Digital Communication Courses with LabVIEW Access**

Akar A., Yayla A.

in: Modeling, Programming and Simulations Using LabVIEW™ Software, Dr Riccardo De Asmundis, Editor, IntechOpen, London, pp.265-274, 2011

## Papers Published in Refereed Scientific Meetings

**I. Performance Evaluation of Artificial Neural Network Maximum Power Point Tracking Algorithm for Photovoltaic Panel with Single Ended Primary Inductor Converter**

BAL S., YAYLA A., AKPINAR K. N.

2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence, EICEEAI 2023, Zarqa, Jordan, 27 - 28 December 2023

**II. A Cross Platform Mobile Application Development for Voice and Remote Control of Programmable Instruments**

Ece B., Yayla A., Korkmaz H.

2020 Innovations in Intelligent Systems and Applications Conference (ASYU), İstanbul, Turkey, 15 - 17 October 2020

**III. Fiber Optik Haberleşmenin Akıllı Ulaşım Sistemlerindeki Yeri**

KESEN U., SARIKAŞ A., YAYLA A.

1st INTERNATIONAL CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS, Balıkesir, Turkey, 19 - 21 April 2018, pp.183-195

**IV. Kablosuz Haberleşme Teknolojilerinin Akıllı Ulaşım Sistemlerinde Uygulamaları**

Sarıkaş A., Yayla A., Polat Z.

1st INTERNATIONAL CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS, Balıkesir, Turkey, 19 - 21 April

2018, pp.240-255

- V. **Poster: A Mobile Application for Voice and Remote Control of Programmable Instruments**  
Ece B., YAYLA A., KORKMAZ H.  
15th International Conference on Remote Engineering and Virtual Instrumentation (REV), Duesseldorf, Germany, 21 - 23 March 2018, vol.47, pp.479-486
- VI. **ÖN LİSANS ÖĞRENCİLERİNİN GİRİŞİMCİLİK EĞİLİMLERİNİN BAZI DEĞİŞKENLERE GÖRE ARAŞTIRILMASI**  
Tektaş N., Tektaş M., Ceviz N., Polat Z., Yayla A., Sarıkaş A.  
3.Uluslararası girişimcilik,İstihdam ve Kariyer Kongresi, Muğla, Turkey, 12 - 15 October 2017, vol.1, pp.404-410
- VII. **Ön Lisans Öğrencilerinin Dönem Arası Yaptıkları Stajın Akademik Başarılarına Etkisinin İncelenmesi**  
Polat Z., Sarıkaş A., Ceviz N., Tektaş N., Yayla A., Tektaş M.  
World Congress on Educational and Instructional Studies, Antalya, Turkey, 26 - 28 October 2017
- VIII. **Ön Lisans Öğrencilerinin Sosyo-Demografik-Ekonomik Statülerinin Alışveriş Davranış Biçimlerine Etkileri**  
Yayla A., Tektaş N., Ceviz N., Sarıkaş A., Polat Z., Tektaş M.  
World Congress on Educational and Instructional Studies, Antalya, Turkey, 26 - 28 October 2017
- IX. **Uzaktan Erişimli Mikrodenetleyici Laboratuvarı**  
SARIKAŞ A., YAYLA A.  
World Congress on Educational and Instructional Studies, 26 - 28 October 2017
- X. **Ön Lisans Öğrencilerinin Girişimcilik Eğilimlerinin Bazı Değişkenlere Göre Araştırılması**  
TEKTAŞ N., TEKTAŞ M., CEVİZ N., POLAT Z., YAYLA A., SARIKAŞ A.  
III. ULUSLARARASI GİRİŞİMCİLİK, İSTİHDAM VE KARIYER KONGRESİ, 12 - 15 October 2017
- XI. **MESLEK YÜKSEKOKULU ÖĞRENCİLERİNİN DEMOGRAFİK ÖZELLİKLERİNİN İNTERNET VE SOSYAL AĞLARI KULLANMABECERİLERİ ÜZERİNDEKİ ETKİSİ: MARMARA ÜNİVERSİTESİ ÖRNEĞİ**  
POLAT Z., TEKTAŞ N., TEKTAŞ M., CEVİZ N., SARIKAŞ A., YAYLA A.  
4. Ulusal Meslek Yüksekokulları Sosyal ve Teknik Bilimler Kongresi, Burdur, Turkey, 11 - 13 May 2017
- XII. **An Interactive Web-Based Circuit Design and Analysis Interface for Disabled Students by Using Speech Recognition Technology**  
Yayla A., Korkmaz H., Buldu A.  
8th IEEE Global Engineering Education Conference (EDUCON), Athens, Greece, 25 - 28 April 2017, pp.1676-1682
- XIII. **Circuit Analysis Application Interface By Using Speech Recognition Technology**  
YAYLA A., KORKMAZ H., BULDU A.  
WCEIS 2016, 27 - 29 October 2016
- XIV. **Konuşma Tanıma Teknolojisi Kullanarak Devre Analizi Uygulama Arayüzü**  
YAYLA A., KORKMAZ H., BULDU A.  
5th World Conference on Educational and Instructional Studies WCEIS - 2016, 27 - 29 October 2016, vol.5, pp.169-176
- XV. **KONUŞMA TANIMA TEKNOLOJİSİ KULLANARAK DEVRE ANALİZİ UYGULAMA ARAYÜZÜ**  
YAYLA A., KORKMAZ H., BULDU A.  
5th World Congress on Educational and Instructional Studies, 27 - 29 October 2016
- XVI. **ÖN LİSANS ÖĞRENCİLERİNİN STAJ UYGULAMALARININ DEĞERLENDİRİLMESİ MARMARA ÜNİVERSİTESİ ÖRNEĞİ**  
TEKTAŞ N., YAYLA A., SARIKAŞ A., POLAT Z., TEKTAŞ M., CEVİZ N.  
5th World Congress on Educational and Instructional Studies, 27 - 29 October 2016
- XVII. **A SURVEY FOR EXAMINATION OF FORMS OF SHOPPING BEHAVIOUR A CASE STUDY FOR VOCATIONAL SCHOOL**  
Polat Z., Tektaş M., Tektaş N., Ceviz N., Sarıkaş A., Yayla A.  
5th World Congress on Educational and Instructional Studies, Antalya, Turkey, 27 - 29 October 2016
- XVIII. **IMPACT OF ADVERTISEMENTS IN SOCIAL MEDIA ON PURCHASING BEHAVIOUR OF ASSOCIATE STUDENTS**  
SARIKAŞ A., CEVİZ N., TEKTAŞ M., YAYLA A., TEKTAŞ N., POLAT Z.

5th World Congress on Educational and Instructional Studies, 27 - 29 October 2016

**XIX. MESLEK YÜKSEKOKULLARINDA ÖĞRENİM GÖREN GENÇLERİN GİRİŞİMCİLİK EĞİLİMLERİ ÜZERİNE BİR ARAŞTIRMA**

CEVİZ N., TEKTAŞ M., YAYLA A., TEKTAŞ N., SARIKAŞ A., POLAT Z.

5th World Congress on Educational and Instructional Studies, 27 - 29 October 2016

**XX. Temel Elektronik Deneylerinin Pc Tabanlı Veri Toplama Çözümleri Sunan Otomasyon Yazılımları İle Gerçekleştirilmesi**

KORKMAZ H., YILDIZ K., YAYLA A., ERDAL S., AZAKLAR S.

8th International Educational Technology Conference (IETC 2008), Eskişehir, Turkey, 6 - 09 May 2008, pp.492

**XXI. Temel Elektronik Deneylerinin PC Tabanlı Veri Toplama Çözümleri**

KORKMAZ H., YAYLA A., YILDIZ K., ERDAL .

8th International Educational Technology Conference, 6 - 09 May 2008

**XXII. Görsel Laboratuarda Haberleşme Sistem Deneyleri**

KIRLAR N., YAYLA A., AKAR A.

7th International Educational Technology Conference, 03 May 2007 - 05 May 2008

**XXIII. Web Based Real Time Laboratory Applications of Analog and Digital Communication Courses with LabVIEW Access**

YAYLA A., AKAR A.

Conference of the World-Academy-of-Science-Engineering-and-Technology, Berlin, Germany, 24 - 26 August 2007, vol.23, pp.51-55

**XXIV. İnternet Üzerinde Web Tabanlı LabVIEW Erişimli Gerçek Zamanlı Bir Sayısal Haberleşme Dersi Laboratuar Uygulaması**

YAYLA A., AKAR A.

Ulusal Teknik Eğitim Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, Turkey, 20 - 22 June 2007

## Supported Projects

Bal S., Korkmaz H., Erdal H., Baba A. F., Sarıkaş A., Yayla A., Başpınar U., Altınay S., TUBITAK Project, INNOVATIVE METHODS FOR COMPUTER SCIENCES AND DIGITAL SYSTEMS EDUCATION, 2021 - 2022

Kesen U., Ak A., Aydın S., Yayla A., Sarıkaş A., Oral B., Development Agency, GENÇLERİN FİBER OPTİK İLETİM HATLARI MONTAJ VE ÖLÇÜM ELEMANI OLARAK EĞİTİMİ VE İSTİHDAM ORGANİZASYONU, 2012 - 2013

Akar A., Yayla A., Project Supported by Higher Education Institutions, Telekomünikasyon Dersi Laboratuar Çalışmalarının İnternet Üzerinden Gerçek Zamanlı Uygulamaları, 2006 - 2007

## Student Project

Other, Akım Ayarlı Elektronik Sigorta Devre Tasarımı, Marmara University, Vocational School of Technical Sciences, Electronics and Automation, Turkey, 2023 - Continues

Other, Comparison of MIL-STD-1553 Bus Performance on FPGA and RISC-V Instruction Set (ISA) Based Microprocessor, Marmara University, Vocational School of Technical Sciences, Electronics and Automation, Turkey, 2023 - 2024

## Peer Reviews in Scientific Publications

IEEE INTERNET OF THINGS JOURNAL, SCI Journal, August 2023

## Metrics

Publication: 46

Citation (WoS): 5

Citation (Scopus): 15

H-Index (WoS): 2

H-Index (Scopus): 3

## **Awards**

Yayla A., Korkmaz H., Buldu A., Best paper Award ,An Interactive Web-Based Circuit Design and Analysis Interface for Disabled Students by Using Speech Recognition Technology, Ieee, April 2017

## **Non Academic Experience**

Beykoz Su Ürünleri Meslek Lisesi, Sözleşmeli öğretmen