

## **Asst. Prof. Ziya Cihan TAYŞI**

### **Personal Information**

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**Web:** <https://avesis.yildiz.edu.tr/cihan>

### **International Researcher IDs**

ScholarID: VekrbqoAAAAJ

ORCID: 0000-0003-3916-7492

Publons / Web Of Science ResearcherID: ABA-3292-2020

ScopusID: 35103754000

Yoksis Researcher ID: 59349

### **Education**

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Bilgisayar Mühendisliği, Turkey  
2006 - 2012

Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Bilgisayar Mühendisliği, Turkey 2004 -  
2006

Undergraduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Bilgisayar Bilimleri Ve Mühendisliği,  
Turkey 1998 - 2002

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Alıcı Tabanlı Yönlendirme Protokollerinin Araçlararası Haberleşmede Çokluortam Servislerine Uygunluğunun  
Değerlendirilmesi, Yıldız Teknik Üniversitesi, Fen Bilimleri, Bilgisayar Mühendisliği, 2014

Postgraduate, Telsiz Algılayıcı Düğüm tasarımı ve gerçeklenmesi, Yıldız Teknik Üniversitesi, Fen Bilimleri, Bilgisayar  
Bilimleri, 2006

### **Research Areas**

Computer Sciences, Computer Networks, Communications and Network Protocols, Software, Operating Systems,  
Engineering and Technology

### **Academic Positions**

Assistant Professor, Yıldız Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2018 -  
Continues

Assistant Professor, Yıldız Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2014 - 2018  
Research Assistant PhD, Yıldız Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2012 -

2014

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2003 - 2012

## Courses

### Postgraduate

Araştırma Yöntemleri ve Bilimsel Etik, Postgraduate, 2016 - 2017

Linux Sistem Yönetimi ve Programlama, Postgraduate, 2016 - 2017, 2015 - 2016

Makineler Arası İletişim, Postgraduate, 2015 - 2016

Araçlar Arası Haberleşme, Postgraduate, 2016 - 2017

### Undergraduate

Introduction to Computer Engineering, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Programlama Dilleri, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Mesleki İngilizce, Undergraduate, 2016 - 2017

Gerçek Zamanlı Sistemler, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Proje 4, Undergraduate, 2015 - 2016

Mesleki Terminoloji 2, Undergraduate, 2015 - 2016, 2014 - 2015

Bilgisayar Programlama, Undergraduate, 2015 - 2016, 2014 - 2015

## Journal articles indexed in SCI, SSCI, and AHCI

- I. Artificial neural network and SARIMA based models for power load forecasting in Turkish electricity market  
BOZKURT Ö. Ö., BİRİCİK G., TAYŞI Z. C.  
PLOS ONE, vol.12, no.4, 2017 (SCI-Expanded)
- II. Assessment of vehicular transportation quality via smartphones  
TECIMER A. A., TAYŞI Z. C., YAVUZ A. G., KARSLIGİL YAVUZ M. E.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, pp.2161-2170, 2015 (SCI-Expanded)
- III. In situ image processing capabilities of ARM-based micro-controllers  
TAYŞI Z. C., YAVUZ A. G., GÜVENSAN M. A., KARSLIGİL M. E.  
JOURNAL OF REAL-TIME IMAGE PROCESSING, vol.9, no.1, pp.111-125, 2014 (SCI-Expanded)
- IV. ETSI compliant GeoNetworking protocol layer implementation for IVC simulations  
Taysi Z. C., Yavuz A. G.  
Human-centric Computing and Information Sciences, vol.3, no.1, pp.1-12, 2013 (SCI-Expanded)
- V. Energy monitoring in residential spaces with audio sensor nodes: TinyEARS  
GUVENTSAN M. A., Taysi Z. C., MELODIA T.  
AD HOC NETWORKS, vol.11, no.5, pp.1539-1555, 2013 (SCI-Expanded)
- VI. Routing Protocols for GeoNet: A Survey  
TAYŞI Z. C., YAVUZ A. G.  
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, vol.13, no.2, pp.939-954, 2012 (SCI-Expanded)

## Books

- I. A Distributed Approach for Concurrent Password Recovery of Archived Files

Çelik E., TAYŞI Z. C., YAVUZ A. G.

in: Proceedings of the European Computing Conference Volume 2, Mastorakis N., Mladenov V., Kontargyri V.T.,

- Editor, Springer-Verlag , --, pp.695-702, 2009
- II. Multiple Base Station Positioning for Sensor Applications**  
Güvensan A., TAYŞI Z. C., YAVUZ A. G.  
in: Proceedings of the European Computing Conference Volume 1, Mastorakis N., Mladenov V., Kontargyri V.T.,  
Editor, Springer-Verlag , --, pp.619-629, 2009
- III. Considerations for the Design of a General Purpose Wireless Sensor Node**  
TAYŞI Z. C., YAVUZ A. G.  
in: Proceedings of the European Computing Conference Volume 1, Mastorakis N., Mladenov V., Kontargyri V.T.,  
Editor, Springer-Verlag , --, pp.631-642, 2009

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. Feature Engineering to Detect People Behind Walls Using UWB Sensor**  
Malik Z., TAYŞI Z. C., KARSLIGİL M. E.  
32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024, (Full Text)
- II. A Mobile NER Annotation Tool with Turkish Focus**  
Tayşı Z. C., Biricik G.  
INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, Satara, India, 06 November 2020, vol.1, pp.1-4
- III. A study on forecasting the success of software projects**  
Buharalı Olcaysoy A., BİRİCİK G., TAYŞI Z. C., KALIPSİZ O.  
17th International Conference on New Trends in Intelligent Software Methodology Tools and Techniques, SoMeT 2018, Granada, Spain, 26 - 28 September 2018, vol.303, pp.678-687
- IV. Türkiye Elektrik Piyasası için Fiyat Tahmin Sistemlerinin Değerlendirilmesi**  
TAYŞI Z. C., BİRİCİK G., BOZKURT Ö. Ö.  
IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 May 2015, pp.526-529
- V. Rekabetçi Elektrik Piyasası için Kısa Dönemli Fiyat Tahmininde Kullanılan Özelliklerin Analizi**  
BİRİCİK G., BOZKURT Ö. Ö., TAYŞI Z. C.  
IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 May 2015, pp.506-509
- VI. Power Load Forecast System for Turkish Electric Market**  
BOZKURT Ö. Ö., TAYŞI Z. C., BİRİCİK G.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.569-572
- VII. Evaluation of Price Forecast Systems for Turkish Electric Market**  
TAYŞI Z. C., BİRİCİK G., BOZKURT Ö. Ö.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.620-623
- VIII. Analysis of Features Used in Short-Term Electricity Price Forecasting for Deregulated Markets**  
BİRİCİK G., BOZKURT Ö. Ö., TAYŞI Z. C.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.600-603
- IX. Audio-based gender and age identification**  
BOZKURT Ö. Ö., TAYŞI Z. C.  
Signal Processing and Communications Applications Conference (SIU), 2014 22nd, Trabzon, Turkey, 23 April 2014, pp.1-4
- X. Machine learning based IP traffic classification,**  
TAYŞI Z. C., KARSLIGİL YAVUZ M. E., YAVUZ A. G., ŞAHİN R., YILMAZ T., DEMİREL H.  
Signal Processing and Communications Applications Conference (SIU), 2013 21st, Lefkoşa, Cyprus (Kktc), 24 April 2013, pp.1-4

- XI. Machine Learning Based IP Traffic Classification**  
TAYŞI Z. C., Karsligil M. E., YAVUZ A. G., Sahin R., Yilmaz T., Demirel H.  
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XII. A Fast and Accurate Motion Detection Algorithm for Embedded Systems**  
Camgoz N. C., Tayşi Z. C., Güvensan M. A., Karsligil M. E., Yavuz A. G.  
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XIII. ETSI compliant GeoNetworking protocol layer implementation for IVC simulations**  
TAYŞI Z. C., YAVUZ A. G.  
2012 International Conference on Computer, Information and Telecommunication Systems, CITS 2012, Amman, Jordan, 14 - 16 May 2012
- XIV. ETSI compliant GeoNetworking protocol layer implementation for NCTUs**  
TAYŞI Z. C., YAVUZ A. G.  
Signal Processing and Communications Applications Conference (SIU), 2012 20th, Muğla, Turkey, 18 April 2012, pp.1-4
- XV. Image processing capabilities of new generation arm cores for WMSNs**  
CAMGÖZ N. C., ÖZTÜRK R., Güvensan A., TAYŞI Z. C., YAVUZ A. G.  
Signal Processing and Communications Applications Conference (SIU), 2012 20th, Muğla, Turkey, 18 April 2012, pp.1-4
- XVI. Image Processing Capabilities of ARM-based Micro-controllers for Visual Sensor Networks**  
TAYŞI Z. C., YAVUZ A. G., Çelik E., GÜVENSAN M. A., KARSLIGİL YAVUZ M. E.  
Embedded and Ubiquitous Computing (EUC), 2011 IFIP 9th International Conference on, Melbourne, Australia, 24 November 2011, pp.243-248, (Full Text)
- XVII. Porting Contiki to the MSP-EXP430F5438**  
TAYŞI Z. C., YAVUZ A. G., Çelik E.  
4th European DSP Education and Research Conference, Nice, France, 01 December 2010, pp.1-10
- XVIII. TinyEARS: Spying on house appliances with audio sensor nodes**  
Cihan Taysi Z., Amac Guvensan M. A., Melodia T.  
2nd ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Buildings, BuildSys'10, Zürich, Switzerland, 02 November 2010, pp.31-36
- XIX. Environmental sound classification for recognition of house appliances Ev aletlerinin taninması için çevresel seslerin sınıflandırılması**  
GÜVENSAN M. A., TAYŞI Z. C.  
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.431-434
- XX. Environmental Sound Classification for Recognition of House Appliances**  
TAYŞI Z. C., Güvensan A.  
Signal Processing and Communications Applications Conference (SIU), 2010 IEEE 18th, Diyarbakır, Turkey, 22 April 2010, pp.431-434
- XXI. In-Cave Wireless Communication System**  
YAVUZ A. G., TAYŞI Z. C., Çelik E.  
Third International Conference and Exhibition on Next Generation Mobile Applications, Services and Technologies, Cardiff, United Kingdom, 16 October 2009, pp.161-164
- XXII. Multiple base station placement with k-means Local+**  
Güvensan A., TAYŞI Z. C., YAVUZ A. G.  
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 09 April 2009, pp.896-899
- XXIII. Multiple Base Station Positioning for Sensor Applications**  
GÜVENSAN M. A., TAYŞI Z. C., YAVUZ A. G.  
European Computing Conference, Atina, Greece, 25 - 27 September 2007, pp.619-629
- XXIV. Multiple Base Station Placement with k-means Local**  
TAYŞI Z. C., GÜVENSAN M. A., YAVUZ A. G.

## Expert Reports

### I. 2015/349

TAYŞİ Z. C.

İSTANBUL 4. ASLİYE TİCARET MAHKEMESİ, pp.6, İstanbul, 2017

### II. 2014/736

BOZKURT Ö. Ö., TAYŞİ Z. C., BAŞAK M. E.

İSTANBUL 15. ASLİYE TİCARET MAHKEMESİ, pp.7, İstanbul, 2017

### III. 2014/1593

TAYŞİ Z. C., KARTAL M., GÖKÇEN G., YENER M. D.

İSTANBUL 4. ASLİYE TİCARET MAHKEMESİ, pp.5, İstanbul, 2017

## Funded Projects

Bircik G., Tayşı Z. C., Project Supported by Other Private Institutions, Yapay Zeka Altyapısı Geliştirme, 2019 - 2019  
TAYŞİ Z. C., BOZKURT Ö. Ö., TUBITAK Project, SES ANALİZİ YOLUYLA ÇAĞRI MERKEZİ GÖRÜŞMELERİNİN BAŞARIM DEĞERLENDİRİLMESİ, 2014 - 2015

## Activities in Scientific Journals

Sigma Journal of Engineering and Natural Sciences, Assistant Editor /Section Editor, 2016 - Continues  
Aloy Journal of Soft Computing and Applications, Assistant Editor /Section Editor, 2013 - Continues

## Peer Reviews in Scientific Publications

Aloy Journals of Soft Computing and Applications, SCI Journal, April 2013

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, National Scientific Refreed Journal, January 2013

2012 IEEE International Conference on Power and Energy, SCI Journal, December 2012

2012 IEEE Student Conference on Research and Development, SCI Journal, September 2012

IEEE Conference on Control, Systems & Industrial Informatics, SCI Journal, July 2012

2012 IEEE Symposium on Industrial Electronics & Applications, SCI Journal, June 2012

## Metrics

Publication: 36

Citation (WoS): 85

Citation (Scopus): 164

H-Index (WoS): 4

H-Index (Scopus): 6

## Scholarships

**Non Academic Experience**

University at Buffalo, Researcher