



# SÜLEYMAN BİLGİN

## PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: C-3539-2016

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Yoksis Researcher ID: 128433



## Biography

Prof. Dr. Süleyman Bilgin was born in 1978 in Karadeniz Ereğli. He completed his primary and secondary education in Burdur. He graduated from Süleyman Demirel University, Faculty of Engineering and Architecture in 2000 as an Electronics and Communications Engineer. He completed his master's degree in 2003 at Gebze Institute of Technology, Institute of Science and Technology, Department of Electronics Engineering, and his doctorate in Sakarya University, Institute of Science, Department of Electrical and Electronics in May 2008. After graduation, he worked as Istanbul Erelan Ltd. between 2001-2003. Sti. Served as R&D manager. Later, he worked as a lecturer at Burdur Mehmet Akif Ersoy University Gölhisar Vocational School between 2004-2009. After completing his doctorate education, he was appointed as a lecturer at Akdeniz University, Faculty of Engineering, Department of Electrical and Electronics Engineering in 2009. He received the title of associate professor in 2018. Süleyman Bilgin, who is still a lecturer in the Department of Electrical and Electronics Engineering at Akdeniz University, has more than thirty articles published in national and international peer-reviewed journals, over fifty papers presented at national and international conferences, and author of four national and international book chapters. He works on artificial intelligence applications, biomedical systems, signal processing, image processing.

## Learning Knowledge

Doctorate  
2008 - 2008

Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), Signal Processing Lab., Electronic Eng., Switzerland

Doctorate  
2004 - 2008

Sakarya University, Institute Of Science, Electrical-Electronics Engineering, Turkey

Postgraduate  
2001 - 2004

Gebze Technical University, Institute Of Science, Electronics Engineering, Turkey

Undergraduate  
1995 - 2000

Suleyman Demirel University, Electrical-Electronics Engineering, Turkey

## Foreign Languages

English, C1 Advanced  
German, B1 Intermediate

## Dissertations

Doctorate, The analysis of heart rate variability using wavelet transform and artificial neural networks, Sakarya University, Institute Of Science, Electrical-Electronics Engineering, 2008

Postgraduate, Optical communication system application with RS-232 protocol in free space, Gebze Technical University, Institute Of Science, Electronics Engineering, 2004

## Academic Titles / Tasks

Professor 2024 - Continues	Akdeniz University, Faculty of Engineering, Department of Electrical and Electronics Engineering
Associate Professor 2018 - 2024	Akdeniz University, Faculty of Engineering, Department of Electrical and Electronics Engineering
Assistant Professor 2009 - 2018	Akdeniz University, Faculty of Engineering, Department of Electrical and Electronics Engineering
Lecturer PhD 2008 - 2009	Burdur Mehmet Akif Ersoy University, Golhisar Vocational High School, Technical Sciences
Lecturer 2004 - 2008	Suleyman Demirel University

## Supported Projects

- Özdemir L., Bilgin S., TUBITAK Project, STEAM LEAK TRACKING SYSTEM, 2020 - 2021
- ORAL O., BİLGİN S., CARLAK H. F., AK M. Ü., DERİN N., DERİN A. T., Project Supported by Higher Education Institutions, İnsan Yüzü Üzerinden Alınan Titreşim Sinyallerinin Frekans Karakteristiklerinin Belirlenmesi, 2019 - 2021
- BİLGİN S., Çetin E., BİÇER GÖMCELİ Y., KAYIKÇI A. M., Project Supported by Higher Education Institutions, Mobil EEG Tabanlı Açık ve Tokluk Sınıflandırılması, 2018 - 2020
- UYSAL H., KIZILAY F., BİLGİN S., ALBAYRAK Y., ÖZKAN Ö., ÖZKAN Ö., BARCIN N. E., ŞENOL A. U., KARAALI K., ÜNAL A., et al, Project Supported by Higher Education Institutions, Bilim insanı yetiştirme ve geliştirme projesi, 2017 - 2019

5. TUNÇ S., ÖZEN Ş., DUMAN O., GÜRKAN T., BİLGİN S., Project Supported by Higher Education Institutions, Fotopolimerizasyon tekniği ile jelatin bazlı hidrojel sistemlerinin geliştirilmesi ve elektriksel aktivitelerinin incelenmesi, 2017 - 2018
6. BİLGİN S., ÜSER Y., TUBITAK Project, Kanal Seçenekli EKG Holter ve Kalp Hızı Değişkenliği (KHD) Analiz Cihazı, 2016 - 2018
7. BİLGİN S., CARLAK H. F., UYSAL H., POLAT Ö., TUBITAK Project, Spatisite Mekanizmalarının Kas, eklem ve Medulla Spinalisin Matematiksel Modelleriyle Analizi, 2015 - 2017
8. Carlak H. F., Bilgin S., Project Supported by Higher Education Institutions, Akım Uygulamalı Termal Görüntüleme, 2014 - 2016
9. BİLGİN S., Industrial Thesis Project, Prototip Buhar Kondensatörleri kaçak kontrol cihazı, 2014 - 2015
10. BİLGİN S., Industrial Thesis Project, Kablosuz Holter EKG ve KHD Cihazı Tasarımı, 2013 - 2014
11. BİLGİN S., ÖZEN Ş., KIZILAY F., UYSAL H., TUBITAK Project, Spastisitenin değerlendirilmesinde elektrofizyolojik-kinesiyolojik bir yöntem, 2011 - 2013
12. Bilgin S., Project Supported by Higher Education Institutions, Elektrokardiyografi (EKG) İşaretlerinin Sayısal İşarete Dönüştürülürken ortaya çıkan Problemlerin Araştırılması ve Çözülmesi, 2009 - 2011
13. ÇOLAK Ö. H., BİLGİN S., TUBITAK Project, Fibromiyalji Sendromunun Teşhisine Yönelik HRV, SSR ve Psikolojik Testlerin Dalgacık Dönüşümü ve Yapay Sinir Ağları ile Değerlendirilmesi ve İlişkilerin Belirlenmesi, 2008 - 2010

## Awards

1. BİLGİN S., GÜZELER A. C., BİLİŞİM, OTOMASYON, YAZILIM TEKNOLOJİLERİ KATEGORİSİNDE BİRİNCİLİK, ANTALYA ORGANİZE SANAYİ BÖLGESİ AR-GE VE İNOVASYON PROJE PAZARI, March 2018
2. BİLGİN S., Endurance and surface electromyography power frequency analysis of paraspinal muscles in patients with chronic low back pain undergoing exercise program, 7 th Physical Medicine and Rehabilitation Congress, May 2010

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

1. **A novel wearable ERP-based BCI approach to explicate hunger necessity**  
Çetin E., Bilgin S., Bilgin G.  
NEUROSCIENCE LETTERS, vol.818, pp.137573-137582, 2024 (SCI-Expanded)
2. **Evaluation of Vibration Signals Measured by 3-Axis MEMS Accelerometer on Human Face using Wavelet Transform and Classifications**  
Oral O., Bilgin S., Ak M. Ü.  
Tehnicki Vjesnik-Technical Gazette, vol.29, no.2, pp.355-362, 2022 (SCI-Expanded)
3. **Evaluation of facial tissue characteristics by utilising vibration signals using thermal imaging**  
Irim Y., CARLAK H. F., Ak M. U., BİLGİN S., ORAL O.  
IET SCIENCE MEASUREMENT & TECHNOLOGY, vol.14, no.10, pp.997-1002, 2020 (SCI-Expanded)
4. **Mathematical model of patella T-reflex and clinical evaluation with Ashworth scales**  
BİLGİN S., CARLAK H. F., POLAT Ö., Nuzket T., USLU S., UYSAL H.  
BIOMEDICAL ENGINEERING-BIOMEDIZINISCHE TECHNIK, vol.65, no.5, pp.587-594, 2020 (SCI-Expanded)
5. **Evaluation of vibration measurements on human face using median and maximum frequencies**  
Umit Ak M., BİLGİN S., ORAL O., Feza Carlak H. F., Tunga Derin A., DERİN N.  
IET Science, Measurement and Technology, vol.14, no.8, pp.853-856, 2020 (SCI-Expanded)
6. **Investigating effects of force and pressure centre signals on stabilogram analysis**  
Cetin E., BİLGİN S.  
IET SCIENCE MEASUREMENT & TECHNOLOGY, vol.13, no.9, pp.1305-1310, 2019 (SCI-Expanded)
7. **Carbon nanotube, poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) and Ag nanoparticle doped gelatin based electro-active hydrogel systems**

Polat T. G., Ateş K., Bilgin S., Duman O., Özen Ş., Tunç S.

COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.580, 2019 (SCI-Expanded)

8. **Gait pattern discrimination of ALS patients using classification methods**  
BİLGİN S., Akm Z. E.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.3, pp.1367-1377, 2018 (SCI-Expanded)
9. **The impact of feature extraction for the classification of amyotrophic lateral sclerosis among neurodegenerative diseases and healthy subjects**  
BİLGİN S.  
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.31, pp.288-294, 2017 (SCI-Expanded)
10. **Low-frequency exposure analysis using electric and magnetic field measurements and predictions in the proximity of power transmission lines in urban areas**  
CARLAK H. F., ÖZEN Ş., BİLGİN S.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.5, pp.3994-4005, 2017 (SCI-Expanded)
11. **A Study on the Effects of Sympathetic Skin Response Parameters in Diagnosis of Fibromyalgia Using Artificial Neural Networks**  
Ozkan O., Yildiz M., Arslan E., Yildiz S., BİLGİN S., AKKUŞ S., KOYUNCUOĞLU H. R., Koklukaya E.  
JOURNAL OF MEDICAL SYSTEMS, vol.40, no.3, 2016 (SCI-Expanded)
12. **Physiological parameters as a tool in the diagnosis of fibromyalgia syndrome in females: A preliminary study**  
Elmas O., Yildiz S., BİLGİN S., Demirci S., ÇÖMLEKÇİ S., KOYUNCUOĞLU H. R., AKKUŞ S., ÇOLAK Ö. H., Koklukaya E., Arslan E., et al.  
LIFE SCIENCES, pp.51-56, 2016 (SCI-Expanded)
13. **Investigation of the relationship between anxiety and heart rate variability in fibromyalgia: A new quantitative approach to evaluate anxiety level in fibromyalgia syndrome**  
BİLGİN S., Arslan E., Elmas O., Yildiz S., ÇOLAK Ö. H., Bilgin G., KOYUNCUOĞLU H. R., Akkus S., ÇÖMLEKÇİ S., Koklukaya E.  
COMPUTERS IN BIOLOGY AND MEDICINE, vol.67, pp.126-135, 2015 (SCI-Expanded)
14. **Biceps femoris late latency responses and the "notching sign" in spasticity**  
Gürbüz M., BİLGİN S., Albayrak Y., KIZILAY F., UYSAL H.  
JOURNAL OF NEUROENGINEERING AND REHABILITATION, vol.12, 2015 (SCI-Expanded)
15. **An electrophysiological and kinesiological method for assessing spasticity**  
Gürbüz M., KIZILAY F., BİLGİN S., ALBAYRAK Y., UYSAL H.  
JOURNAL OF THE NEUROLOGICAL SCIENCES, vol.333, no.1, pp.138, 2013 (SCI-Expanded)
16. **Temperature and burn injury prediction of human skin exposed to microwaves: a model analysis**  
ÖZEN Ş., HELHEL S., BİLGİN S.  
RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.50, no.3, pp.483-489, 2011 (SCI-Expanded)
17. **Determination of a New VLF Band in HRV for Ventricular Tachyarrhythmia Patients**  
Bilgin S., ÇOLAK Ö. H., Polat O., Koklukaya E.  
JOURNAL OF MEDICAL SYSTEMS, vol.34, no.2, pp.155-160, 2010 (SCI-Expanded)
18. **Estimation and evaluation of sub-bands on LF and HF base-bands in HRV for Ventricular Tachyarrhythmia patients**  
Bilgin S., ÇOLAK Ö. H., Polat O., Köklükaya E.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.6, pp.10078-10084, 2009 (SCI-Expanded)
19. **Determination of sympathovagal balance in ventricular tachyarrhythmia patients with implanted cardioverter defibrillators using wavelet transform and MLPNN**  
Bilgin S., ÇOLAK Ö. H., Polat O., Koklukaya E.  
DIGITAL SIGNAL PROCESSING, vol.19, no.2, pp.330-339, 2009 (SCI-Expanded)
20. **Efficient Solution For Frequency Band Decomposition Problem Using Wavelet Packet In Hrv**  
BİLGİN S., ÇOLAK Ö. H.

## Articles Published in Other Journals

1. **VIBRATION-BASED MEASUREMENT SYSTEM FOR BREAST TISSUE**  
Ak M. Ü., Bilgin G., Kaya D., Bilgin S., Kaya A.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.12, no.2, pp.319-327, 2024 (Peer-Reviewed Journal)
2. **Development of a Hybrid Algorithm for Real-Time Pupil Tracking System**  
Kara C., Bilgin G., Bilgin S.  
YEKARUM E-DERGİSİ, vol.8, no.2, pp.114-130, 2023 (Peer-Reviewed Journal)
3. **A New Wristband Design for Cardiac Event Recorder and Telemetry System**  
Bilgin G., Oktay M., Bilgin S.  
JOURNAL OF GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES OF MEHMET AKIF ERSOY UNIVERSITY, vol.12, no.1, pp.104-120, 2021 (Peer-Reviewed Journal)
4. **Investigation of Hunger and Satiety Status During Eyes Open and Closed Using EEG Signals**  
Çetin E., Bilgin G., BİLGİN S., Biçer Gömçeli Y., Kayıkçı A. M.  
Journal of Intelligent Systems with Applications, vol.3, no.1, pp.35-39, 2020 (Peer-Reviewed Journal)
5. **A New Method For The Automatic Detection Of Ventricular And Atrial Premature Contractions**  
Akn Z. E., BİLGİN S.  
Journal of Engineering Sciences and Design, vol.8, no.1, pp.165-174, 2020 (Peer-Reviewed Journal)
6. **Automatic Detection Of Atrial Fibrillation Based On RR Interval**  
GÜZELER A. C., BİLGİN S.  
Journal of Engineering Sciences and Design, vol.7, no.3, pp.487-497, 2019 (Peer-Reviewed Journal)
7. **THREE DIMENSIONAL PRINTER APPLICATIONS IN THE HEALTH SECTOR: CURRENT SITUATION AND FUTURE**  
Akbaş G., ORAL O., BİLGİN S.  
International Journal of 3D Printing Technologies and Digital Industry, vol.2, no.2, pp.88-98, 2018 (Peer-Reviewed Journal)
8. **A NEW ROBUST QRS DETECTION ALGORITHM IN ARRHYTHMIC ECG SIGNALS**  
BİLGİN S., Akn Z. E.  
Journal of Engineering Sciences and Design, vol.6, no.1, pp.64-73, 2018 (Peer-Reviewed Journal)
9. **The Comparison of Neurodegenerative Diseases and Healthy Subjects Using Discrete Wavelet Transform in Gait Dynamics**  
BİLGİN S.  
Journal of Medical and Bioengineering, vol.6, no.1, pp.35-38, 2017 (Peer-Reviewed Journal)
10. **Low Cost Laboratory Type Signal Generator Using DDS Method**  
BİLGİN S., ÜSER Y., OKTAY M.  
International Journal Of Engineering & Applied Sciences, vol.8, no.4, pp.59-65, 2016 (Peer-Reviewed Journal)
11. **Robotic Hand Controlling Based on Flexible Sensor**  
BİLGİN S., ÜSER Y., MERCAN M.  
International Journal Of Engineering & Applied Sciences, vol.8, no.4, pp.49-58, 2016 (Peer-Reviewed Journal)
12. **Predictions of the Electric Field Emissions around Power Transmission Lines by Using Artificial Neural Network Methods**  
CARLAK H. F., ÖZEN Ş., BİLGİN S.  
American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS), vol.15, no.1, pp.210-226, 2016 (Peer-Reviewed Journal)
13. **Determination of health hazards for GSM BTS station by using fuzzy logic**  
Kanberoğlu B., Çömlekçi S., Bilgin S.  
electronic letters on science & engineering, vol.2, no.1, pp.24-29, 2006 (Peer-Reviewed Journal)

## Books & Book Chapters

1. **A Walking and Balance Analysis Based on Pedobarography**  
Çetin E., Bilgin S., Oral O.  
in: Lecture Notes on Data Engineering and Communications Technologies , D. Jude Hemanth,Utku Kose, Editor, Springer, London/Berlin , Basel, pp.906-913, 2019
2. **INDUSTRY 4.0 and INTERNET OF THINGS TECHNOLOGY**  
Oral O., Bilgin S.  
in: Industry 4.0 Technological Fields and Applications, Kerim Çetinkaya,Pınar Demircioğlu,Koray Özsoy,Burhan Duman, Editor, Pegem A Yayıncılık, Ankara, pp.345-356, 2019
3. **Optoelectronic Devices**  
Bilgin S.  
in: Solid State Electronics Circuit Elements, Merdan M., Editor, Palme Yayın Dağıtım, Ankara, pp.45-80, 2014

## Refereed Congress / Symposium Publications in Proceedings

1. **Evaluation of Vibration Signals Measured by 3-D MEMs Accelerometer on Human Face using Wavelet Transform and Classifications Methods**  
ORAL O., BİLGİN S., Ak M. Ü.  
International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2020), Antalya, Turkey, 9 - 11 October 2020, pp.1
2. **Median and Maximum Frequency Analysis of Vibration Signals on Human Face**  
Ak M., BİLGİN S., ORAL O., Çetin E., CARLAK H. F., DERİN A. T., DERİN N.  
The International Conference on Research in Engineering and Technology, Barcelona, Spain, 12 - 14 December 2019, pp.1
3. **Artificial Intelligence Applications in Energy Efficiency and Renewable Energy**  
Çetin E., Bilgin S.  
YEKSEM 2019, Antalya, Turkey, 12 - 14 December 2019, pp.185-190
4. **A New System Design for Measuring Vibration Effect in Live Tissues**  
Ak M., Bilgin S., Oral O., Çetin E., Carlak H. F., Derin A. T., Derin N.  
TIPTEKNO 2019, Aydın, Turkey, 3 - 05 October 2019, pp.102-105
5. **INDUSTRY 4.0 and INTERNET OF THINGS TECHNOLOGY**  
Oral O., Bilgin S.  
4th INTERNATIONAL CONGRESS ON 3D PRINTING (ADDITIVE MANUFACTURING) TECHNOLOGIES AND DIGITAL INDUSTRY, Antalya, Turkey, 11 - 14 April 2019, pp.1436
6. **A New System Design for Measuring Vibration Effect in Live Tissues**  
Umit M. A. K., BİLGİN S., ORAL O., Cetin E., CARLAK H. F., DERİN A. T., DERİN N.  
Medical Technologies Congress (TIPTEKNO), İzmir, Turkey, 3 - 05 October 2019, pp.409-412
7. **3D Printer Applications in The Health Sector: Current Situation and Future**  
BİLGİN S., ORAL O., AKBAŞ G.  
The third International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry (3D-PTC2018), Antalya, Turkey, 19 - 21 April 2018, pp.1-8
8. **Classification of Normal Beat, Atrial Premature Contraction and Ventricular Premature Contraction Based on Discrete Wavelet Transform and Artificial Neural Networks**  
Akin Z. E., BİLGİN S.  
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
9. **QRS Complex Detection Algorithm Based on Discrete Wavelet and Hilbert Transform within The ECG Signal Arrhythmia**  
Güzeler A. C., Bilgin S.  
BİYOMUT 2016, İzmir, Turkey, 3 - 05 November 2016, pp.219-224

10. **Fuzzy Based Flux Oriented Direct Torque Control Of Induction Motor**  
Üser Y., Bilgin S., Gülez K.  
4th International Fuzzy Systems Symposium 2015, İstanbul, Turkey, 5 - 06 November 2015, pp.1
11. **The Comparison of Neurodegenerative Diseases and Healthy Subjects using Discrete Wavelet Transform in Gait Dynamics**  
BİLGİN S.  
8th International Conference on Computer and Electrical Engineering, Paris, France, 12 - 13 October 2015, pp.37
12. **Naive Bayes Classification of Neurodegenerative Diseases By Using Discrete Wavelet Transform**  
BİLGİN S., Güzeler A. C.  
19th National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 5 - 06 November 2015
13. **Image-Processing Based Determination of Kinesiologic Parameters of Spasticity Patients**  
Albayrak Y., Dağlı M., Asilkan Ö., Yardimci A., Bilgin S., Uysal H.  
BİYOMUT 2014, İstanbul, Turkey, 16 - 17 October 2014, vol.1, no.1, pp.284-286
14. **Assesment of Spasticity via Patellar Pendulum and Muscular and Skeletal Modelling**  
Özcan C., Albayrak Y., Bilgin S., Uysal H.  
BİYOMUT 2014, İstanbul, Turkey, 16 - 17 October 2014, vol.1, no.1, pp.287-290
15. **A New Method for Determination of EDR Signal from ECG Signal**  
Uslu S., Nüzket T., Bilgin S.  
TIPTEKNO2014, Nevşehir, Turkey, 25 - 27 September 2014, vol.1, no.1, pp.275-278
16. **Assesing spasticity via patellar pendulum which is triggered by patellar T reflex**  
Gürbüz M., BİLGİN S., Özcan C., UYSAL H.  
The XX Congress of the International Society of Electrophysiology and Kinesiology (ISEK) 2014, Roma, Italy, 15 - 18 July 2014, pp.355
17. **Features of patellar pendulum triggered by patella t reflex in rigidity**  
UYSAL H., Gürbüz M., KIZILAY F., ALBAYRAK Y., BİLGİN S.  
30th International Congress of Clinical Neurophysiology (ICCN), Berlin, Germany, 19 - 23 March 2014, vol.125, no.1, pp.127
18. **Assesment of Spasticity via Patellar Pendulum and Muscular-Skeletal Modelling**  
Ozcan C., ALBAYRAK Y., BİLGİN S., UYSAL H.  
18th National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 16 - 17 October 2014
19. **An electrophysiological and kinesiological method for assessing spasticity**  
Gürbüz M., KIZILAY F., BİLGİN S., ALBAYRAK Y., UYSAL H.  
XXI World Congress of Neurology, Viyana, Austria, 21 - 26 September 2013, vol.333, no.1, pp.138
20. **An electrophysiological and kinesiological method for assesing spasticity**  
Gürbüz M., KIZILAY F., Bilgin S., Albayrak Y., Uysal H.  
WCN 2013, Hong Kong, Japan, 31 May - 04 June 2013, pp.429
21. **Examination of Possible Heart Problems in Fibromyalgia Patients with Detailed Electrocardiogram Analysis**  
Elmas O., Yıldız S., Bilgin S., Koyuncuoglu H. R., Çömlekçi S.  
TFBD 2012 38th NATIONAL CONGRESS OF PHYSIOLOGY, Trabzon, Turkey, 1 - 03 December 2012, pp.1-3
22. **RR Interval Variablity and Heart Rate Calculation**  
BİLGİN S., Uslu S., Usluer M., Nüzket T., ÖZEN Ş.  
2nd International Scientific Conference on Engineering "Manufacturing and Advanced Technologies" (MAT2012), Antalya, Turkey, 22 - 24 November 2012, pp.311-314
23. **A Device Design For Evaluation of Kinetic Disturbances in Parkinson Patients**  
Gencer E., Bilgin S., Öz E., Özdemir L., Gürbüz M., Uslu S., Özen Ş., Kizilay F., Uysal H.  
TIPTEKNO 2012, Antalya, Turkey, 1 - 03 November 2012, pp.42-44
24. **Prediction of Electromagnetic Pollution occured around the Energy Transmission and Distribution Lines with Multilayer Perceptron Artificial Neural Networks**  
Özen Ş., Ögel E. G., Bilgin S., Helhel S.  
Biomedical Engineering Meeting 2012, 17th National Biyomut, İstanbul, Turkey, 3 - 05 October 2012, pp.130-133

25. **Design of a new system for the evaluation of spasticity**  
Tosun P. D., Gürbüz M., Gencer E., Bilgin S., Özdemir E., Sever R., Özen Ş., Kizilay F., Uysal H.  
TIPTEKNO 2011, Antalya, Turkey, 13 - 16 October 2011, pp.1
26. **QRS Detection algorithm using Wavelet Packet Transform**  
Kuru Ö. F., Bilgin S., Özen Ş.  
TIPTEKNO 2010, Antalya, Turkey, 14 - 16 October 2010, pp.1
27. **Endurance and surface electromyography power frequency analysis of paraspinal muscles in patients with chronic low back pain undergoing exercise program**  
Yıldız S., Soyupek F., BİLGİN S., Koyuncuoğlu H. R.  
17th Physical and Rehabilitation Medicine European congress, Venedik, Italy, 23 - 27 May 2010, pp.160
28. **Correlation of BAI Psychological Test Scores with Heart Rate Variability Using Wavelet Packet Transform and Artificial Neural Networks in Fibromyalgia Syndrome**  
BİLGİN S., Koklukaya E., ÇOLAK Ö. H., Özkan Ö., Yıldız S., Bilgin G.  
Biomedical Engineering Meeting 2010, 15th National Biyomut, Antalya, Turkey, 21 - 24 April 2010, pp.1
29. **Analyze of Sympathovagal Balance on Ventricular Tachyarrhythmia Patients Using Wavelet Packet Transform**  
Çolak Ö. H., Bilgin S., Polat Ö.  
BIYOMUT 2009, İzmir, Turkey, 20 - 24 May 2009, pp.1
30. **The Impact of Daubechies Wavelet Performances on Ventricular Tachyarrhythmia Patients for Determination of Dominant Frequency Bands in HRV**  
Bilgin S., Polat O., ÇOLAK Ö. H.  
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.423-424
31. **Detection of Frequency Sub-Bands on Heart Rate Variability in Supra-Ventricular Tachyarrhythmia Patients Using Artificial Neural Networks**  
Bilgin S., Bilgin G., ÇOLAK Ö. H., Koklukaya E.  
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.13-14
32. **Evaluation of Sub-Frequency Regions of HRV in Supraventricular Tachyarrhythmia Patients**  
BİLGİN S., ÇOLAK Ö. H., POLAT Ö., Köklükaya E.  
Computers in Cardiology, Bologna, Italy, 14 - 17 September 2008, pp.1
33. **Determination of Frequency Characteristics in HRV Signals Using Wavelet Transform**  
Bilgin S., Çolak Ö. H., Elmas O., Çömlekçi S.  
SDU 15th Year Engineering and Architecture Congress 2007, Isparta, Turkey, 15 - 17 November 2007, pp.1
34. **The Detection of Artifacts on Heart Rate Variability Using Wavelet Transform**  
Bilgin S., Çolak Ö. H., Köklükaya E.  
International Kyrgyz-Kazakh Electronics And Computer Conference, Almati, Kazakhstan, 3 - 05 October 2007, pp.1
35. **Analyze Of Frequency-Energy Characteristics for HRV Signals Using Discrete Wavelet Transform (DWT)**  
BİLGİN S., ÇOLAK Ö. H., Koklukaya E.  
International Workshop II on Applications of Wavelets to Real World Problems, İstanbul, Turkey, 7 - 09 June 2007, pp.2
36. **Determination of health hazards for GSM BTS station by using fuzzy logic**  
Çömlekçi S., Bilgin S., Ulukut Coşkun Ö.  
URSI 2006, Ankara, Turkey, 6 - 08 September 2006, pp.1

## Academic and Administrative Experience

2023 - Continues	<b>Applied Research Center Board Member</b>	Akdeniz University, BİYOMEDİKAL TEKNOLOJİLER UYGULAMA VE ARAŞTIRMA MERKEZİ
2013 - 2018	<b>Deputy Head of Department</b>	Akdeniz University, Faculty of Engineering, Department of Electrical and Electronics Engineering



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2005 - 2009

**Deputy Head of  
Department**

Burdur Mehmet Akif Ersoy University, Golhisar Vocational High  
School, Technical Sciences

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## Courses

Elektronik Cihaz Tasarımı, Undergraduate, 2018 - 2019  
Optoelektronik, Undergraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016  
Devre Teorisi II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Devre Teorisi I, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Sinyaller ve Sistemler, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Yapay Sinir Ağları, Postgraduate, 2017 - 2018  
Sayısal Sinyal İşleme, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Çoklu Çözünürlü Sinyal İşleme, Postgraduate, 2015 - 2016, 2014 - 2015  
İleri Düzey MATLAB Uygulamaları, Postgraduate, 2015 - 2016, 2014 - 2015  
MATLAB ile Kullanıcı Arayüz Programlama, Postgraduate, 2015 - 2016, 2014 - 2015  
Yapay Sinir Ağları, Postgraduate, 2015 - 2016, 2014 - 2015

## Advising Theses

Bilgin S., RESEARCH OF FACEBOOK PROPHET FUNCTION EFFECT FOR HANDWRITTEN DIGIT PREDICTION, Postgraduate, Ç.KAPLAN(Student), 2023  
Bilgin S., DEVELOPMENT OF A HYBRID ALGORITHM FOR REAL-TIME PUPIL TRACKING SYSTEM, Postgraduate, C.KARA(Student), 2022  
Bilgin S., MOBILE EEG BASED HUNGER AND SATIETY CLASSIFICATION, Postgraduate, E.Çetin(Student), 2020  
Oral O., Bilgin S., INVESTIGATION THE FREQUENCY CHARACTERISTICS OF VIBRATION SIGNALS ON THE HUMAN FACE, Postgraduate, M.Ümit(Student), 2019  
Bilgin S., ECG EVENT RECORDER AND PHYSICAL TELEMETRY SYSTEM DESIGN, Postgraduate, M.Oktay(Student), 2019  
Bilgin S., AUTOMATIC DETECTION OF VENTRICULAR AND ATRIAL PREMATURE CONTRACTIONS, Postgraduate, Z.Elif(Student), 2018  
Bilgin S., AUTOMATIC ATRIAL FIBRILLATION DETECTION ON HOLTER ECG SIGNALS, Postgraduate, A.Can(Student), 2017  
Çetinel G., Bilgin S., Diagnosis and grading of spasticity with electrophysiological and kinesiological data, Doctorate, Y.Albayrak(Student), 2017  
Bilgin S., HARDWARE AND SOFTWARE DEVELOPMENT TO EVALUATE MOVEMENT DISORDER OF PARKINSON PATIENTS, Postgraduate, E.Gencer(Student), 2014

## Patent

BİLGİN S., ÖZDEMİR L., UYSAL H., Elektronik goniometre, Utility Model, CHAPTER A Human Needs, 2014

## Activities in Scientific Journals

Journal of Intelligent Systems with Applications, Editor, 2020 - Continues  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Editor, 2017 - 2017  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Editor, 2017 - 2017

## Scientific Refereeing

Biomedical Signal Processing and Control, SCI Journal, August 2020

Measurement, SCI Journal, October 2019

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, October 2019

Computers in Biology and Medicine, SCI Journal, October 2015

Turkish journal of electrical engineering & computer sciences, SCI Journal, January 2013

Journal of Medical Systems, SCI Journal, February 2012

Applied Soft Computing, SCI Journal, January 2012

## Metrics

Publication: 72

Citation (WoS): 107

Citation (Scopus): 176

H-Index (WoS): 7

H-Index (Scopus): 9

## Congress and Symposium Activities

Translational Engineering in Neurorehabilitation 2012 (TEN2012), Attendee, Göttingen/ALMANYA, Turkey, 2012

## Research Areas

Computer Sciences, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Natural Language Processing, Evolutionary Computing, Text/Document Processing, Pattern Recognition and Image Processing, Neural Networks, Biomedical Engineering, Biomedical Image Processing, Biosignal Processing, Electrical and Electronics Engineering, Electronic, Circuit Theory, Sensing Devices and Transducers, Electronic Circuits, Engineering and Technology

## Non Academic Experience

Company, Medises Medikal Elektronik Ar-Ge Danışmanlık A.Ş., Ar-Ge

Erelsan Elektronik Ltd. Şti.

Business Establishment Private, Erelsan Elektrik Elektronik Ltd. Şti., , İstanbul