

## Res. Asst. Mehmet İŞCAN

### Personal Information

**Email:** miscan@yildiz.edu.tr

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### Education Information

Doctorate, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Turkey 2016 - Continues  
Postgraduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Mekatronik Mühendisliği, Turkey 2013 - 2016

Undergraduate, Yıldız Teknik Üniversitesi, Makina Fakültesi, Mekatronik Mühendisliği, Turkey 2009 - 2013

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, A NEW METHOD FOR QT INTERVAL ANALYSIS OF ECG SIGNALS BASED ON GAUSSIAN MIXTURE MODEL AND NEURAL NETWORK, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Mekatronik Mühendisliği, 2016

### Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Neural Networks, Biomedical Engineering, Biosignal Processing, Biosignal Processing, Mechanical Engineering, Machine Theory and Dynamics, Mechatronics, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Yıldız Teknik Üniversitesi, Makina, Mekatronik Mühendisliği, 2014 - Continues

### Articles Published in Other Journals

- I. **GERİ DÖNÜŞÜMLÜ YAPAY SİNİR AĞI TABANLI T DALGASI SONU TESPİTİ**  
İŞCAN M., YEŞİLDİREK A.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, 2020 (Refereed Journals of Other Institutions)
- II. **DESIGN AND CONTROL STRATEGY OF DIFFERENTIAL SCANNING CALORIMETRY**  
Koyun A., Kurt R., İşcan M.  
JOURNAL OF THERMAL ENGINEERING, vol.4, no.2, pp.1867-1878, 2018 (Refereed Journals of Other Institutions)
- III. **QT Zaman Aralığının Gauss Karışım Modeli ve Yapay Sinir Ağı Tabanlı Tespiti**  
İŞCAN M., YILMAZ C.

Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.6, pp.752-762, 2017 (Other Refereed National Journals)

- IV. **A Fully Automatic Novel Method to Determine QT Interval Based on Continuous Wavelet Transform**  
YILMAZ C., İŞCAN M., YILMAZ A.  
IU-Journal of Electrical Electronics Engineering, vol.17, pp.3093-3099, 2017 (Journal Indexed in ESCI)

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

- I. **MODIFIED BETA TYPE STIRLING MOTOR CONTROL BASED ON LYAPUNOV THEORY**  
KOYUN A., İŞCAN M., AZANPA M.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- II. **MODELLING AND CONTROL OF HIGH PRECISION POSITIONING SYSTEM WITH ELECTROMAGNETIC ACTUATOR**  
KOYUN A., Kurt R., İŞCAN M.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 December 2019 - 19 July 2020
- III. **DESIGN AND CONTROL OF AN EXOSKELETON ROBOT: A MATLAB SIMSCAPE APPLICATION**  
İŞCAN M., Vural B., Eken H., YILMAZ C.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2018, İstanbul, Turkey, 19 December 2018, pp.1
- IV. **Design and Control Strategy of Different Scanning Calorimetry**  
İŞCAN M., KURT R., KOYUN A.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL, 19 - 21 December 2018
- V. **Hand gesture movement classification based on dynamically structured neural network**  
İŞCAN M., emeç c., YEŞİLDİREK A.  
2018 Electric Electronics, Computer Science, Biomedical Engineerings'xx Meeting (EBBT), İstanbul, Turkey, 18 - 19 April 2018
- VI. **Bir Üst Uzun Rehabilitasyon Robotu Kullanarak EMG Sinyalleriyle Yapay Sinir Ağları Tabanlı Empedans Tahmini**  
Güney Ö. F., İşcan M., Akdoğan E.  
Otomatik Kontrol Ulusal Toplantısı, TOK 2017, İstanbul, Turkey, 21 September - 23 December 2017, vol.1, pp.484-489
- VII. **Optimization of the heart pump geometry based on multiple gradient descent algorithm Kalp pompası geometrik optimizasyonunun çoklu gradyan algoritması tabanında modellenmesi**  
İŞCAN M., Kadipasaoglu K.  
2017 Electric Electronics, Computer Science, Biomedical Engineerings' Meeting, EBBT 2017, İstanbul, Turkey, 20 - 21 April 2017
- VIII. **Gradient descent based classification of road induced disturbances for active suspension systems Aktif Söspansiyon Sistemleri için Yol Kaynaklı Bozucuların Gradyan İniş Tabanlı Sınıflandırılması**  
İŞCAN M., Sever M.  
2017 Electric Electronics, Computer Science, Biomedical Engineerings' Meeting, EBBT 2017, İstanbul, Turkey, 20 - 21 April 2017
- IX. **ROTOR and DIFFUSER OPTIMIZATION of a NOVEL AXIAL FLOW LEFT VENTRICULAR ASSIST DEVICE**  
İŞCAN M., KADIPAŞAOĞLU A. K.  
The 3rd International Conference on Engineering and Natural Sciences (ICENS), Budapest, Hungary, 3 - 07 May 2017, pp.1
- X. **Multilead QT Interval Analysis Algorithm Based on Continuous Wavelet Transform**  
İŞCAN M., SARIOZKAN S., Yilmaz A., YILMAZ C.

4th International Conference on Electrical and Electronic Engineering (ICEEE), Ankara, Turkey, 8 - 10 April 2017, pp.318-322

- XI. **QT Zaman Aralığı Analizi İçin Sürekli Dalgacık Dönüşümü Ve Philips Metodu Tabanlı Özgün Bir Algoritma**  
İŞCAN M., YILMAZ A., YILMAZ C.  
ELECO 2016, Antalya, Turkey, 1 - 03 December 2016
- XII. **A Novel Algorithm Combining Continuous Wavelet Transform and Philips Method For QT Interval Analysis**  
İŞCAN M., YILMAZ A., YILMAZ C.  
Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı, 01 December 2016
- XIII. **Yapay Zeka Tabanında Otomatik QT zaman aralığı Ölçümü**  
İŞCAN M., YILMAZ C., YİĞİT F.  
TIPTEKNO'16 TIP TEKNOLOJİLERİ KONGRESİ, Antalya, Turkey, 27 - 29 October 2016
- XIV. **Automatic QT interval Measurement Based on Neural Networks**  
İŞCAN M., YILMAZ C., YİĞİT F.  
TIPTEKNO'16 Tıp Teknolojileri Kongresi, Antalya, Turkey, 27 October 2016, pp.94-97
- XV. **Heartbeat pattern classification algorithm based on Gaussian mixture model**  
İŞCAN M., YİĞİT F., YILMAZ C.  
11th IEEE International Symposium on Medical Measurements and Applications, MeMeA 2016, Benevento, Italy, 15 - 18 May 2016
- XVI. **Gauss Karışım Modeli Tabanında T Dalgası Sonu Sınıflaması**  
İŞCAN M., YİĞİT F., YILMAZ C.  
24. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU2016), Zonguldak, Turkey, 16 May 2016, pp.1
- XVII. **Arrhythmic and Non Arrhythmic Heartbeat Classification based on Gaussian Mixture Model**  
İŞCAN M., YILMAZ C., YİĞİT F.  
2016 Electric Electronics, Computer Science, Biomedical Engineerings' Meeting (EBBT), İstanbul, Turkey, 26 - 27 April 2016
- XVIII. **Gauss Karışım Modeli Tabanında Aritmik ve Aritmik olmayan Kalp Atımı Sınıflaması**  
İŞCAN M., YILMAZ C., YİĞİT F.  
2016 Electric Electronics, Computer Science, Biomedical Engineerings' Meeting (EBBT), İstanbul, Turkey, 26 April 2016, pp.1-4
- XIX. **T-Wave End Pattern Classification Based on Gaussian Mixture Model**  
İŞCAN M., YİĞİT F., YILMAZ C.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1953-1956

## Supported Projects

İŞCAN M., Project Supported by Other Official Institutions, T Dalga Alternansı Sınıflaması Yapabilen Taşınabilir Bir Kaydedici Tasarımı ve Yazılım Uygulaması, 2015 - 2016

İŞCAN M., Other Supported Projects, Lazer Vakum Kaplama Cihaz Tasarımı, 2012 - 2013

## Citations

Total Citations (WOS):3

h-index (WOS):1

## Awards

## **Non Academic Experience**

Business Establishment Private, Pulse&More Corporation

Business Establishment Private, Alarge Alıç Ağacı Mak. Elek. Ar-Ge San. Tic. Ltd. Şti.