

Res. Asst. Mehmet İŞCAN

Personal Information

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Turkey 2016 - Continues

Post Graduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Mekatronik Mühendisliği, Turkey 2013 - 2016

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

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Post Graduate, 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

Professional Experience

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, 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., Yigit 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

İŞCAN M., TÜBİTAK 2241-B Sanayi Odaklı Bitirme Projeleri, TÜBİTAK 2241-B Sanayi Odaklı Bitirme Projeleri, July 2013