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Personal Information

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Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Makatronik Mühendisliği Bölümü, Turkey 2015 - 2020

Post Graduate, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, Turkey 2013 - 2015

Under Graduate, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, Turkey 2007 - 2012

Research Areas

algorithms, Artificial Intelligence, Computer Learning and Pattern Recognition, Software, Biomedical Image Processing

Academic Titles / Tasks

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Yazılım Mühendisliği, 2021 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Classification of bearing vibration speeds under 1D-LBP based on eight local directional filters**
KAYA Y., KUNCAN M., KAPLAN K., MİNAZ M. R. , ERTUNÇ H. M.
SOFT COMPUTING, vol.24, no.16, pp.12175-12186, 2020 (Journal Indexed in SCI)
- II. **Brain tumor classification using modified local binary patterns (LBP) feature extraction methods**
KAPLAN K., KAYA Y., KUNCAN M., ERTUNÇ H. M.
MEDICAL HYPOTHESES, vol.139, 2020 (Journal Indexed in SCI)
- III. **A novel feature extraction method for bearing fault classification with one dimensional ternary patterns**
KUNCAN M., KAPLAN K., MİNAZ M. R. , KAYA Y., ERTUNÇ H. M.
ISA TRANSACTIONS, vol.100, pp.346-357, 2020 (Journal Indexed in SCI)
- IV. **A new feature extraction approach based on one dimensional gray level co-occurrence matrices for bearing fault classification**
KAYA Y., KUNCAN M., KAPLAN K., MİNAZ M. R. , ERTUNÇ H. M.
JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE, 2020 (Journal Indexed in SCI)
- V. **An improved feature extraction method using texture analysis with LBP for bearing fault diagnosis**
KAPLAN K., KAYA Y., KUNCAN M., MİNAZ M. R. , ERTUNÇ H. M.
APPLIED SOFT COMPUTING, vol.87, 2020 (Journal Indexed in SCI)
- VI. **An Integrated LSTM Neural Networks Approach to Sustainable Balanced Scorecard-Based Early Warning System**
AYVAZ E., KAPLAN K., KUNCAN M.
IEEE ACCESS, vol.8, pp.37958-37966, 2020 (Journal Indexed in SCI)
- VII. **Design, production and novel NC tool path generation of CNC tire mold processing machine**
Kuncan M., KAPLAN K., ERTUNÇ H. M. , KÜÇÜKATEŞ S.

Articles Published in Other Journals

- I. **Ball and Beam Control based on NARMA L-2 Controller**
Vardar E., KAPLAN K., ERTUNÇ H. M.
Kocaeli Üniversitesi Fen Bilimleri Dergisi, vol.1, no.2, pp.77-83, 2018 (Other Refereed National Journals)
- II. **Process Control Methods Application in Training Set**
KAPLAN K., KUNDAKCI İ. M. , KUNCAN M., Toprak E., İzgü A., ERTUNÇ H. M.
International Journal of Natural and Engineering Sciences, vol.10, no.1, pp.42-46, 2016 (Refereed Journals of Other Institutions)
- III. **Fuzzy Logic Based Ball on Plate Balancing System Real Time Control by Image Processing**
KUNCAN M., KAPLAN K., Acar F., KUNDAKCI İ. M. , ERTUNÇ H. M.
International Journal of Natural and Engineering Sciences, vol.10, no.1, pp.14-18, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **WAVELET DECOMPOSITION BASED FEATURE EXTRACTION OF BRAIN MR IMAGES**
KAPLAN K., Yasin C., ERTUNÇ H. M.
The 10th International Conference on Image Processing, Wavelet and Applications (IWW2019), Kocaeli, Turkey, 19 - 20 October 2019
- II. **Araç Sürüş Simülatorü için 3 Serbestlik Dereceli Paralel Hareket Platformu**
Yasin Ç., Zafer Ç., Okan Y., KAPLAN K., ERTUNÇ H. M.
TOK'2019 Otomatik Kontrol Ulusal Toplantısı, Muğla, Turkey, 11 September 2019 - 14 September 2014, pp.331-337
- III. **Comparison of ANN and Random Forest Algorithms for Classification of Rolling Bearing Faults**
KUNDAKCI İ. M. , KAPLAN K., ERTUNÇ H. M.
International Engineering and Science Symposium-IESS 2019, Siirt, Turkey, 20 - 22 June 2019
- IV. **PID and Fuzzy Logic Based DC Motor Real-Time Position Control with STM32F407**
KAPLAN K., Polat H., Demirci A., KUNCAN M., ERTUNÇ H. M.
International Engineering and Science Symposium-IESS 2019, Siirt, Turkey, 20 - 22 June 2019
- V. **Real Time Position and Trajectory Control of Ball and Plate System Using Different Control Techniques**
KÖSE F., KAPLAN K., ERTUNÇ H. M.
6th International Conference on Control Engineering and Information Technologies, CEIT2018, 25 - 27 October 2018, pp.1400-1406
- VI. **Gaussian Process Regression Modelling of The Performance Of An R1234yf Automobile Air Conditioning System**
KAPLAN K., ARAL M. C. , SUHERMANTO M., ERTUNÇ H. M. , HOŞÖZ M.
International Conference on Data Science and Applications, ICONDATA 2018, 4 - 07 October 2018
- VII. **Diagnosis of Brain Tumours from Mr Images by Using Convolutional Neural Networks**
VARDAR E., KAPLAN K., ERTUNÇ H. M.
International Conference on Data Science and Applications, ICONDATA 2018, 4 - 07 October 2018
- VIII. **Diagnosis of Parkinson's Disease using ANN and SVM Models**
ÇUŞKUN Y., KAPLAN K., ERTUNÇ H. M.
International Conference on Data Science and Applications, ICONDATA-2018, 4 - 07 October 2018
- IX. **Diagnosis of prostate cancer using gene expression data Gen İfadesi Verisi Kullanarak Prostat**

Kanseri Teshisi

KAPLAN K., ERTUNÇ H. M.

26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4

- X. **Experimental Investigation of Cutting Speed on the Surface Roughness for CNC Machine,**
KUNCAN M., KAPLAN K., ERTUNÇ H. M. , KÜÇÜKATEŞ S.
1st International Engineering and Technology Symposium, IETS'18, 3 - 05 May 2018
- XI. **Support vector regression modeling of the performance of an R1234yf automotive air conditioning system**
HOŞÖZ M., KAPLAN K., Aral M. C. , SUHERMANTO M., ERTUNÇ H. M.
5th International Conference on Energy and Environment Research (ICEER), Prague, Czech Republic, 23 - 27 July 2018, vol.153, pp.309-314
- XII. **Diagnosis of Prostate Cancer Using Gene Expression Data**
KAPLAN K., ERTUNÇ H. M.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XIII. **Handwriting character recognition by using fuzzy logic**
Vardar E., KAPLAN K., ERTUNÇ H. M.
International Conference on Advances and Innovations in Engineering, ICAIE-2017, Elazığ, Turkey, 10 - 12 May 2017, pp.330-334
- XIV. **POSITION DETERMINATION BY USING IMAGE PROCESSING METHOD IN INVERTED PENDULUM**
KUNCAN M., KAPLAN K.
International Engineering, Science and Education Conference, Diyarbakır, Turkey, 1 - 03 December 2016
- XV. **5 AXIS CNC PRECISION TIRE SIDE MACHINING**
KUNCAN M., KAPLAN K., ERTUNÇ H. M. , KÜÇÜKATEŞ S.
International Engineering, Science and Education Conference, Diyarbakır, Turkey, 1 - 03 December 2016
- XVI. **Fuzzy Logic Based Ball on Plate Balancing System Real Time Control by Image Processing**
Acar F., KAPLAN K., KUNDAKCI İ. M. , KUNCAN M., ERTUNÇ H. M.
International Congress on Natural and Engineering Sciences'2016, ÜSKÜP, Macedonia, 1 - 05 September 2016, pp.25
- XVII. **Image Processing Based Multi-Purpose 4-Axis Robot Mechanism**
Cuskun Y., Duman F., Basik H., Gun F., KAPLAN K., ERTUNÇ H. M.
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.247-251
- XVIII. **Uçak Yükseklik Kontrolünde PD Kontrolör ve Bulanık Mantık Kontrolör Performans Karşılaştırması**
Karakoç H., Kenan E., Çağırın R., Subaşı A., KUNCAN M., KAPLAN K., ERTUNÇ H. M.
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, Denizli, Turkey, 10 September 2015 - 12 December 2014, pp.1020-1026
- XIX. **Rulman Hata Boyutunun Uyarlanabilir Sinirsel Bulanık Çıkarımı**
KAPLAN K., KUNCAN M., ERTUNÇ H. M.
IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015, pp.1182-1184
- XX. **Zigbee Modülü Kullanılarak Ses Kontrollü Ev Otomasyonu Geliştirilmesi**
Aykut Ç., KUNCAN M., KAPLAN K., ERTUNÇ H. M.
IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015, pp.1678-1701
- XXI. **PREDICTION OF BEARING FAULT SIZE BY USING MODEL OF ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM**
KAPLAN K., Kuncan M., ERTUNÇ H. M.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1925-1928
- XXII. **Development of a Voice-Controlled Home Automation Using Zigbee Module**
Cubukcu A., Kuncan M., KAPLAN K., ERTUNÇ H. M.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,

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- XXIII. **Feature Extraction Of Ball Bearings In Time Space And Estimation Of Fault Size With Method Of ANN**
KAPLAN K., Bayram S., KUNCAN M., ERTUNÇ H. M.
Proceedings Of The 16th Mechatronika 2014, Brno, Czech Republic, 3 - 05 December 2014, pp.295
- XXIV. **Rulman Hatalarının Dalgacık Dönüşümü Yöntemi Kullanarak Elde Edilen Katsayılara Etkisi**
Bayram S., KAPLAN K., KUNCAN M., ERTUNÇ H. M.
IEEE 22. Sinyal İşleme Ve İletişim Uygulamaları Kurultayı, Trabzon, Turkey, 23 - 25 April 2014
- XXV. **THE EFFECT OF BEARINGS FAULTS TO COEFFICIENTS OBTAINED BY USING WAVELET TRANSFORM**
Bayram S., KAPLAN K., Kuncan M., ERTUNÇ H. M.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.991-994
- XXVI. **Bilyeli Rulmanlarda Zaman Uzayında İstatistiksel Öznitelik Çıkarımı Ve Yapay Sinir Ağları Metodu İle Hata Boyutunun Kestirimi**
Bayram S., KAPLAN K., KUNCAN M., ERTUNÇ H. M.
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, Malatya, Turkey, 26 - 28 September 2013
- XXVII. **Pid Ve Bulanık Mantık İle Dc Motorun Gerçek Zamanda Stm32f407 Tabanlı Hız Kontrol**
Köse F., KAPLAN K., ERTUNÇ H. M.
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, Malatya, Turkey, 26 - 28 September 2013
- XXVIII. **Farklı Rulman Hatalarından Elde Edilen Titreşim Sinyalleri Üzerindeki Radyal Yüklerin Etkisi**
KAPLAN K., Bayram S., KUNCAN M., ERTUNÇ H. M.
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, Niğde, Turkey, 11 - 13 October 2012

Citations

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