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### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Turkey 2007 - 2015

Postgraduate, Cukurova University, Sağlık Bilimleri Enstitüsü, Beden Eğitimi ve Spor, Turkey 2004 - 2007

Undergraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 1995 - 2000

### Dissertations

Doctorate, DEVELOPING VO<sub>2</sub>max PREDICTION MODELS FROM NON-EXERCISE, SUBMAXIMAL EXERCISE AND HYBRID TESTS USING MACHINE LEARNING METHODS, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 2015

Postgraduate, DESTEK VEKTÖRLERİ YÖNTEMİ KULLANILARAK SPORCU PERFORMANSINI ETKİLEYEN FAKTÖRLERİN TAHMİN EDİLMESİ, Cukurova University, Beden Eğitimi Ve Spor Yüksekokulu, Beden Eğitimi Ve Spor Anabilim Dalı, 2007

### Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Software, Programming Languages, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Adana Alparslan Türkeş Science And Technology University, Faculty Of Aeronautics And Astronautics, Havacılık Ve Uzay Bilimleri Fakültesi, 2016 - Continues

Lecturer PhD, Cukurova University, Beden Eğitimi Ve Spor Yüksekokulu, Beden Eğitimi Ve Spor, 2003 - 2016

Research Assistant, Cukurova University, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2000 - 2003

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

1. Support vector machines for predicting the admission decision of a candidate to the School of

## **Physical Education and Sports at Cukurova University**

AÇIKKAR M., AKAY M. F.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.3, pp.7228-7233, 2009 (SCI-Expanded)

### **II. Support vector machines for aerobic fitness prediction of athletes**

AÇIKKAR M., AKAY M. F., ÖZGÜNEN K. T., AYDIN K., KURDAK S. S.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.2, pp.3596-3602, 2009 (SCI-Expanded)

## **Articles Published in Other Journals**

### **I. PREDICTION OF GROSS CALORIFIC VALUE OF COAL FROM PROXIMATE AND ULTIMATE ANALYSIS VARIABLES USING SUPPORT VECTOR MACHINES WITH FEATURE SELECTION**

AÇIKKAR M.

Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.9, no.2, pp.1129-1141, 2020 (Peer-Reviewed Journal)

### **II. Yıkanmış Türk Linyit Kömürlerinin Üst Isıl Değerinin Destek Vektör Regresyonu ile Tahmini**

AÇIKKAR M., SİVRİKAYA O.

European Journal of Science and Technology, no.18, pp.16-24, 2020 (Peer-Reviewed Journal)

## **Books & Book Chapters**

### **I. Developing VO2max Prediction Models Using Machine Learning Methods**

AÇIKKAR M., AKAY M. F.

Amazon.com books , New York City, 2015

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

### **I. Artificial neural networks for estimation of the gross calorific value of Turkish lignite coals**

AÇIKKAR M., SİVRİKAYA O.

3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.1075-1079

### **II. A New Data Reduction Algorithm for Improving the Performance of Support Vector Machines on Maximal Oxygen Uptake Prediction**

AÇIKKAR M., AKAY M. F., George J.

Third International Symposium on Engineering, Artificial Intelligence & Applications (ISEAIA2015), Girne, Cyprus (Kktc), 4 - 06 November 2015, pp.5

### **III. Predicting the Admission Decision of a Candidate to the School of Physical Education and Sports at Cukurova University by Using Multilayer Perceptron Combined with Feature Selection**

AÇIKKAR M., AKAY M. F., Abut F., İsoğlu Ö., İsoğlu Ö.

Second International Symposium on Engineering, Artificial Intelligence & Applications (ISEAIA2014), Girne, Cyprus (Kktc), 5 - 07 November 2014, pp.1

### **IV. Multilayer Perceptron Models for Predicting the Admission Decision of a Candidate to the School of Physical Education and Sports at Cukurova University**

AKAY M. F., Güler M., AÇIKKAR M.

Second International Symposium on Engineering, Artificial Intelligence & Applications (ISEAIA2014), Girne, Cyprus (Kktc), 5 November - 07 October 2014, pp.1

### **V. Destek Vektör Makineleri Kullanılarak Submaksimal Verilerden Maksimum Oksijen Tüketiminin Tahmin Edilmesi**

AKAY M. F., Özsert G., AÇIKKAR M., George J.

ASYU2014: Akıllı Sistemlerde Yenilikler ve Uygulamaları, İzmir, Turkey, 8 - 10 October 2014, pp.54-57

- VI. **Artificial neural network models for predicting maximum oxygen uptake from submaximal exercise involving walking, jogging or running**  
AÇIKKAR M., AKAY M. F., George J., Delil M., Aktürk E.  
EECS'12, 7th International Symposium on Electrical & Electronics Engineering and Computer Systems, Gemikonağı, Cyprus (Kktc), 29 November 2013 - 30 November 2012, pp.17-21
- VII. **A New Approach for Improving the Performance of Support Vector Machines for Maximal Oxygen Uptake Prediction**  
AÇIKKAR M., AKAY M. F.  
First International Symposium on Engineering, Artificial Intelligence & Applications (ISEAIA2013), Kıbrıs, Cyprus (Kktc), 6 - 08 November 2013, pp.1
- VIII. **Egzersiz ve Anket Verileri Kullanarak Yapay Sinir Ağı Tabanlı VO<sub>2</sub>max Tahmin Modelleri**  
AKAY M. F., Aktürk E., AÇIKKAR M.  
21. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, SİU2013, Kıbrıs, Cyprus (Kktc), 24 - 26 April 2013, pp.1
- IX. **Egzersiz ve Anket Verileri Kullanarak Yapay Sinir Ağı Tabanlı VO<sub>2</sub>max Tahmin Modelleri**  
Aktarla E., AKAY M. F., Aktürk E., AÇIKKAR M.  
21. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, SIU2013, Turkey, 24 - 26 April 2013
- X. **Neural Network Based VO(2)max Prediction Models Using Maximal Exercise and Non-Exercise Data**  
Aktarla E., Akay M. F., Akturk E., AÇIKKAR M.  
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XI. **Intelligent Regression Techniques for Non-Exercise Prediction of VO(2)max**  
AÇIKKAR M., AKAY M. F., AKTURK E., GULEC M.  
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XII. **Predicting the admission decision of a candidate to the School of Physical Education and Sports at Cukurova University bu using artificial neural networks**  
AÇIKKAR M., AKAY M. F.  
EECS'08, 5th International Symposium on Electrical and Computer Systems, Gemikonağı, Cyprus (Kktc), 27 - 28 November 2008, pp.1
- XIII. **Destek Vektör Makineleri ile Beden Eğitimi ve Spor Yüksekokuluna Giriş İçin Başvuran Adayların Başarı Durumlarının Tahmini**  
Mendi S., AKAY M. F., AÇIKKAR M.  
Ç.Ü. Müh-Mim. Fak. 30. Yıl Sempozyumu, Turkey, 16 - 17 October 2008
- XIV. **DESTEK VEKTÖR MAKİNELERİ İLE BEDEN EĞİTİMİ VE SPOR YÜKSEKOKULUNA GİRİŞ İÇİN BAŞVURAN ADAYLARIN BAŞARI DURUMLARININ TAHMİNİ**  
AKAY M. F., Mendi S., AÇIKKAR M.  
Ç.Ü. Müh-Mim. Fak. 30. Yıl Sempozyumu,, Adana, Turkey, 16 - 17 October 2008, pp.1
- XV. **Destek Vektör Makineleri Kullanılarak Sporçunun Aerobik Performans Düzeyinin Tahmin Edilmesi**  
AÇIKKAR M., AYDIN K., Özgünen K., Yazıcı Z., KURDAK S. S.  
1. Egzersiz Fizyolojisi Sempozyumu, Konya, Turkey, 25 - 28 May 2007, pp.30
- XVI. **Destek Vektörlerinin Proteinlerin İkincil Yapılarını Tahmin Etmek İçin Uygulanması**  
İBRİKÇİ T., ÇAKMAK PEHLİVANLI A., ERSÖZ KAYA İ., AÇIKKAR M.  
Biyomedikal Mühendisliği Ulusal Toplantısı (BİYOMUT 2004), İstanbul, Turkey, 25 - 27 June 2004, pp.114-118
- XVII. **Destek Vektörlerinin Proteinlerin İkincil Yapılarını Tahmin Etmek İçin Uygulanması**  
İBRİKÇİ T., ÇAKMAK A., ERSÖZ İ., AÇIKKAR M.  
Biyomedikal Mühendisliği Ulusal Toplantısı (BİYOMUT 2004), İstanbul, Turkey, 25 - 27 June 2004, pp.114-118
- XVIII. **Mahalanobis distance with radial basis function network on protein secondary structures**  
İbrikci T., Brandt M., Wang G., Acikkar M.  
24th Annual International Conference of the Engineering-in-Medicine-and-Biology-Society/Annual Fall Meeting of the Biomedical-Engineering-Society (EMBS 2002 BMES), Texas, United States Of America, 23 - 26 October 2002, pp.2184-2185
- XIX. **Assessment of Gaussian radial basis function network on protein secondary structures**

Ibrikci T., Guler M., Acikkar M.

23rd Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, İstanbul, Turkey,  
25 - 28 October 2001, vol.23, pp.3852-3854

## Supported Projects

AKAY M. F., ÇETİN E., YARIM İ., Abut F., KOYUNCU B., ÖZÇİLOĞLU M. M., Project Supported by Higher Education Institutions, Ülkemiz Sporcuları için Yapay Zeka ve İstatistiksel Yöntemler Kullanılarak Maksimum Oksijen Tüketimi (VO2max) Tahmin Modellerinin Geliştirilmesi, 2016 - 2019

AKAY M. F., Daneshvar S., Özsert Yiğit G., Kaya K., Project Supported by Higher Education Institutions, PREDICTING THE PERFORMANCE MEASURES OF A 2DIMENSIONAL MESSAGE PASSING MULTIPROCESSOR ARCHITECTURE BY USING MACHINE LEARNING METHODS, 2015 - 2016

## Metrics

Publication: 24

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Citation (Scopus): 17

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