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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: GWJ-9596-2022

ScopusID: 6507997764

Yoksis Researcher ID: 133185

Education Information

Doctorate, Gazi University, Turkey 1998 - 2005

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), Turkey 1994 - 1998

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 1990 - 1994

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Sinirsel bulanık mantık denetleyicili kesintisiz güç kaynağının tasarımı ve gerçekleştirilmesi, Gazi University, 2005

Postgraduate, Genel Amaçlı Bir Bulanık Mantık Denetleyicisinin Tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), 1998

Research Areas

bioinformatics, Fuzzy Sets and Systems, Natural Language Processing, Neural Networks

Academic Titles / Tasks

Assistant Professor, Gazi University, Teknoloji Fakültesi, Bilgisayar Mühendisliği, 2012 - Continues

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 2007 - 2012

Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 1996 - 2007

Academic and Administrative Experience

Gazi University, Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, 2012 - 2014

Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, 2009 - 2012

Courses

SAYISAL TASARIM LABORATUVARI-I, Undergraduate, 2017 - 2018, 2016 - 2017

MEZUNİYET TEZİ, Undergraduate, 2017 - 2018, 2016 - 2017

BULANIK MANTIK(SEÇ.), Undergraduate, 2017 - 2018, 2016 - 2017

SAYISAL TASARIM-I, Undergraduate, 2017 - 2018, 2016 - 2017

SAYISAL TASARIM LABORATUVARI-II, Undergraduate, 2016 - 2017

TİP-2BULANIK SİSTEMLER VE UYGULAMALARI, Postgraduate, 2016 - 2017

SAYISAL TASARIM-II, Undergraduate, 2016 - 2017

KONTROL SİSTEMLERİ-I, Undergraduate, 2016 - 2017

Advising Theses

ATACAK İ., Gen ifadesi verilerine çok kriterli karar verme yöntemlerinin uygulanması, Postgraduate, M.GÜLŞAH(Student), 2019

ATACAK İ., Application Of Multiple Criteria Decision Making Methods To Gene Expression Data, Postgraduate, M.Gülşah(Student), 2019

ATACAK İ., Dairesel yapıda bir otomatik otopark sisteminin prototip tasarımı ve uygulaması, Postgraduate, E.ERDOĞDU(Student), 2015

ATACAK İ., Design And Implementation Of A Circular Type Automatic Parking System, Postgraduate, E.Erdoğdu(Student), 2015

ATACAK İ., Web based diagnosis of the parkinson disease from sustained vowel phonation tests using feature selection and classification algorithms, Postgraduate, B.GÖKPINAR(Student), 2014

ATACAK İ., Da/DA dönüştürücüler için sezgisel tabanlı PI, PD ve PID denetleyicili bilgisayar arayüzü programının gerçekleştirilmesi, Postgraduate, A.IRMAK(Student), 2013

ATACAK İ., ,, Postgraduate, A.Irmak(Student), 2013

ATACAK İ., Kullanıcı dostu bir oksijen konsantratörünün tasarımı ve gerçekleştirilmesi, Postgraduate, M.KORKUSUZ(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Application of interval type-2 fuzzy logic and type-1 fuzzy logic-based approaches to social networks for spam detection with combined feature capabilities**
Atacak İ., Çıtlak O., Doğru İ. A.
PEERJ COMPUTER SCIENCE, vol.9, pp.1-34, 2023 (SCI-Expanded)
- II. **An Ensemble Approach Based on Fuzzy Logic Using Machine Learning Classifiers for Android Malware Detection**
ATACAK İ.
Applied Sciences (Switzerland), vol.13, no.3, 2023 (SCI-Expanded)
- III. **Android malware detection using hybrid ANFIS architecture with low computational cost convolutional layers**
Atacak İ., Kılıç K., Doğru İ. A.
PeerJ Computer Science, vol.8, 2022 (SCI-Expanded)
- IV. **A Novel Approach to Skin Lesion Segmentation: Multipath Fusion Model with Fusion Loss**
Alhudhaif A., Ocal H., Barışçı N., Atacak İ., Nour M., Polat K.

- Computational and Mathematical Methods in Medicine, vol.2022, 2022 (SCI-Expanded)
- V. **PSO-BASED PID CONTROLLER DESIGN FOR AN ENERGY CONVERSION SYSTEM USING COMPRESSED AIR**
Atacak İ., Kucuk B.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.24, no.3, pp.671-679, 2017 (SCI-Expanded)
- VI. **Design and Experimental Analysis for Reduction of Cogging Torque by Pole Shifting in Permanent Magnet Synchronous Generator**
Mamur H., Topaloglu I., Korkmaz F., Ari M., Atacak İ.
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.20, no.8, pp.39-43, 2014 (SCI-Expanded)
- VII. **DESIGN AND IMPLEMENTATION OF AN OXYGEN CONCENTRATOR WITH GPRS-BASED FAULT TRANSFER SYSTEM**
ATACAK İ., Korkusuz M., BAY Ö. F.
JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.12, no.4, 2012 (SCI-Expanded)
- VIII. **A type-2 fuzzy logic controller design for buck and boost DC-DC converters**
ATACAK İ., BAY Ö. F.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.23, no.4, pp.1023-1034, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Reliability of Entropy-based Malware Detection as a Single Method in Preventing Ransomware Attacks**
Alkan A. O., DOĞRU İ. A., ATACAK İ.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2024 (ESCI)
- II. **Effective Management of Rapid Intervention, Investigation, Analysis and Reporting Processes in Computer Crimes with NewGeneration Digital Forensic Methods**
Alkan A. O., DOĞRU İ. A., ATACAK İ.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2024 (ESCI)
- III. **An Evaluation Study on the Application of Heart Failure Prediction with Categorically Different Type Machine Learning Methods**
ATACAK İ.
EMO Bilimsel Dergi, vol.14, no.1, pp.73-85, 2024 (Peer-Reviewed Journal)
- IV. **Kalp Yetmezliği Tahmininin Kategorik Olarak Farklı Tip Makine Öğrenmesi Yöntemleri ile Uygulanmasına Yönelik Bir Değerlendirme Çalışması**
Atacak İ.
EMO Bilimsel Dergi, vol.14, no.1, pp.73-85, 2024 (Peer-Reviewed Journal)
- V. **Social Media User Opinion Analysis Using Deep Learning and Machine Learning Methods: A Case Study on Airlines**
Şencan Ö. A., Atacak İ.
Turkish Journal of Mathematics and Computer Science, vol.15, no.2, pp.449-463, 2023 (Peer-Reviewed Journal)
- VI. **Mamdani ve Sugeno Tip Bulanık Çıkarım Sistemleri ile Sosyal Medya Haber Popülerliğinin Tahmini**
Atacak İ., Şencan Ö. A.
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.14, no.3, pp.303-320, 2022 (Peer-Reviewed Journal)
- VII. **Sosyal Ağlarda Topluluk ve Konu Tespiti: Bir Sistemik Literatür Taraması**
Şencan Ö. A., Atacak İ., Doğru İ.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.15, no.3, pp.317-329, 2022 (Peer-Reviewed Journal)
- VIII. **Büyükbaş Hayvanlar için Bulanık Mantık Denetleyiciler ile Nesnelerin İnterneti Temelli Bir İşkembe Sağlığı İzleme Prototipinin Geliştirilmesi**
Gürçan F., Doğru İ., Dörterler M., Atacak İ.
Gazi Mühendislik Bilimleri Dergisi, vol.8, no.1, pp.135-149, 2022 (Peer-Reviewed Journal)

- IX. **Sentiment Analyses on Movie Reviews using Machine Learning-Based Methods**
Yetginler B., Atacak İ.
ARTIFICIAL INTELLIGENCE STUDIES, vol.3, no.2, pp.1-12, 2020 (Peer-Reviewed Journal)
- X. **Prototype Design and Application of a Semi-Circular Automatic Parking System**
ATACAK İ., ERDOĞDU E.
International Journal of Intelligent Systems and Applications in Engineering, vol.5, no.4, pp.274-284, 2017 (Peer-Reviewed Journal)
- XI. **Modelling and Evaluating Air Quality with Fuzzy Logic Algorithm-Ankara-Cebeci Sample**
Atacak İ., Arıcı N., Güner D.
International Journal of Intelligent Systems and Applications in Engineering, vol.5, no.4, pp.263-268, 2017 (Scopus)
- XII. **A Level Training Set with both a Computer-Based Control and a Compact Controller**
MAMUR H., ATACAK İ., KORKMAZ F., Bhuiyan M. R. A.
International Journal of Embedded Systems and Applications, vol.7, no.1, pp.1-16, 2017 (Peer-Reviewed Journal)
- XIII. **REALIZATION OF A HIGH-PERFORMANCE OXYGEN CONCENTRATOR SYSTEM WITH ON-LINE MONITORING AND OFF-LINE REPORTING ABILITIES**
ATACAK İ., KORKUSUZ M.
Biomedical Engineering-Applications Basis Communications, vol.25, no.3, pp.1350031, 2013 (Scopus)
- XIV. **Real-Time Implementation of A Type-2 Fuzzy Logic Controller on an On-Line UPS System**
BAY Ö. F., ATACAK İ.
International Review Of Electrical Engineering-Iree, vol.8, no.1, pp.10-25, 2013 (Scopus)
- XV. **Development of Computer-aided Comprehensive Analysis Tool for DC DC Converters**
ATACAK İ., IRMAK A.
Energy Education Science And Technology Part A-Energy Science And Research, pp.697-706, 2012 (Scopus)
- XVI. **Design of a hybrid type-2 fuzzy logic/proportional-integral controller for single-phase three-wire inverter system**
ATACAK İ.
Scientific Research And Essays, vol.6, no.23, pp.5049-5064, 2011 (Peer-Reviewed Journal)
- XVII. **OKSİJEN KONSANTRATÖRLERİNİN YAPISAL SORUNLARINA YÖNELİK ÇÖZÜM ÖNERİLERİ**
ATACAK İ., KORKUSUZ M.
NWSA Academic Journals, vol.6, no.4, pp.768-777, 2011 (Peer-Reviewed Journal)
- XVIII. **Power Factor Correction of a Switching Mode Power Supply By Using Neuro-Fuzzy Controller**
BAY Ö. F., ATACAK İ.
Gazi University Journal of Science, vol.18, no.3, pp.421-437, 2005 (Peer-Reviewed Journal)
- XIX. **Bulanık Mantık Denetimli Bir Fazlı Kesintisiz Güç Kaynağının Tasarımı**
BAY Ö. F., ATACAK İ.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, no.3, pp.41-48, 2004 (Peer-Reviewed Journal)
- XX. **Bulanık Mantık Denetimli Seri Aktif Güç Filtresi Kullanarak Harmonik Gerilimlerin Bastırılması**
ATACAK İ., BAY Ö. F.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.19, no.2, pp.205-215, 2004 (Scopus)
- XXI. **Harmonic voltage suppression using a fuzzy logic controlled series active power filter Bulanık mantık denetimli seri aktif güç filtresi kullanarak harmonik gerilimlerin bastırılması**
ATACAK İ., BAY Ö. F.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.19, no.2, pp.205-215, 2004 (Scopus)
- XXII. **BİR FAZLI GÜÇ FAKTÖRÜ DÜZELTMELİ KESİNTİSİZ GÜÇ KAYNAĞI TASARIMI**
BAY Ö. F., ATACAK İ.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.6, no.2, pp.433-444, 2003 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Human activity recognition using CNN-BiLSTM-LightGBM hybrid model**

Sönmez Ş. N., Doğru İ. A., Atacak İ., Kiliç K.

2024 32nd Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 15 - 18 May 2024, pp.1-4

- II. **Social Media Sentiment Analysis Classification Leveraging Hybrid Deep Learning Methods**
Şencan Ö. A., Atacak İ.
3rd International Conference on Innovative Academic Studies, Konya, Turkey, 26 - 28 September 2023, vol.7, no.9, pp.691-698
- III. **Akıllı Evler için Öznitelik Seçimi Temelli Uzun-Kısa Süreli Bellek Ağı Kullanarak Enerji Tüketim Tahmini**
Dağkurs B., ATACAK İ.
4th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 - 13 November 2022, pp.646-654
- IV. **Systematic Literature Review of Detecting Topics and Communities in Social Networks**
Şencan Ö. A., Atacak İ., Doğru İ. A.
2021 1st International Conference On Informatics And Computer Science (ICI-CS2021), Ankara, Turkey, 9 - 11 December 2021, pp.114-118
- V. **A study on evaluating the performance of feature selection methods on gene expression data using integrated fuzzy-based multi-criteria decision making models**
PAMUK M. G., ATACAK İ.
International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications; Exhibition (ICMATSE 2020), Ankara, Turkey, 02 October 2020, pp.127-128
- VI. **Evaluation of Machine Learning-based Schemes by Using Integrated AHP-VIKOR Method: A Case Study in Determination of Breast Cancer Prognosis**
PAMUK M. G., ATACAK İ.
International Conference on Innovative Engineering Applications (CIEA'2018), Sivas, Turkey, 20 September 2018, pp.667-676
- VII. **Design and Implementation of Fuzzy Logic Based Speed Controller for a Vane Type Pneumatic Motor**
KÜÇÜK B., ATACAK İ., ELMAS Ç.
7th International Conference on Advanced Technologies (ICAT'18), Antalya, Turkey, 28 April 2018, pp.10
- VIII. **Hava Kalitesinin Bulanık Mantık Algoritması ile Modellenmesi ve Değerlendirilmesi-Ankara Örneği**
GÜNER D., ATACAK İ., ARICI N.
1st International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT 2017), Tokat, Turkey, 2 - 04 November 2017, vol.1, pp.321
- IX. **Design and Simulation of a Hybrid CAES / Ultra-Capacitor Energy Storage System for Electric Vehicles**
KÜÇÜK B., ATACAK İ., ELMAS Ç.
IV. International Multidisciplinary Congress of Eurasian, ROMA, Italy, 23 - 25 August 2017, vol.1, pp.472
- X. **Modelling and Application of a Computer-Controlled Liquid Level Tank System**
MAMUR H., ATACAK İ., KORKMAZ F., Bhuiyan M. R. A.
Seventh International Conference on Computer Science, Engineering and Applications (CCSEA-2017), Dubai, United Arab Emirates, 28 - 29 January 2017, vol.7, pp.97-106
- XI. **Sıkıştırılmış hava enerjisi ile çalışan araçlar**
KÜÇÜK B., ATACAK İ.
3. ANADOLU ENERJİ SEMPOZYUMU (AES'xx15), Muğla, Turkey, 1 - 03 October 2015, vol.1, pp.711-719
- XII. **Simulation of a Hybrid Compressed Air/Li-Ion Battery Energy Storage System for Electric Vehicles**
KÜÇÜK B., ATACAK İ., ELMAS Ç.
The third International Symposium on Innovative Technologies in Engineering and Science (ISITES 2015), Valencia, Spain, 3 - 05 June 2015, vol.1, pp.319-328
- XIII. **A computer-aided diagnosis system for detection of Parkinson's disease using fisher score feature selection and neural network**
ATACAK İ., GÖKPINAR B.

3rd World Conference on Innovation and Computer Sciences (INSODE-2013), Antalya, Turkey, 26 - 28 April 2013, vol.4, pp.639-643

- XIV. **Sinüsoidal Olmayan şartlarda Güç Analizleri için Eğitsel Amaçlı Bir Aracın Geliştirilmesi**
KÜÇÜK B., ATACAĞ İ.
6th International Advanced Technologies Symposium (IATS'11), Elazığ, Turkey, 16 - 18 May 2011, vol.1, pp.124-128
- XV. **Design of a Proportional-Integral Controller with a Type-2 Fuzzy Gain Scheduler for a Single Phase UPS Inverter**
ATACAĞ İ., BAY Ö. F.
7th International Symposium on Intelligent and Manufacturing Systems (IMS'2010), Sarajevo, Bosnia And Herzegovina, 15 - 17 September 2010, vol.1, pp.299-311
- XVI. **Yükseltici Tip DA-DA Dönüştürücüde Genetik Algoritma ile PI Denetleyici Kazanç Parametrelerinin Ayarlanması**
ATACAĞ İ., BAY Ö. F.
5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009, vol.1, pp.221-225
- XVII. **Bulanık-PI Denetimli Üç Fazlı Paralel Aktif Güç Filtresinin Tasarımı**
ATACAĞ İ., DURAN F., BAY Ö. F.
5. Uluslararası İleri Teknolojiler Sempozyumu, Karabük, Turkey, 13 - 15 May 2009
- XVIII. **Simulink stateflow for algorithm learning**
DURAN F., ATACAĞ İ., BAY Ö. F.
World Conference on Educational Sciences, Nicosia, CYPRUS, 4 - 07 February 2009, vol.1, pp.554-558
- XIX. **A Type-2 Fuzzy Logic Controller Design for Buck and Boost DC-DC Converters**
ATACAĞ İ., BAY Ö. F.
6th International Symposium on Intelligent Manufacturing Systems (IMS'2008), Sakarya, Turkey, 14 - 17 October 2008, vol.1, pp.433-442
- XX. **Current Harmonics Compensation Using a Fuzzy-PI Controlled Active Power Filter with Function of Uninterruptible Power Supply**
ATACAĞ İ., BAY Ö. F.
5th International Conference on Electrical and Electronics Engineering (ELECO-2007), Bursa, Turkey, 5 - 09 December 2007, vol.1, pp.312-316
- XXI. **Realization of a single phase DSP based neuro-fuzzy controlled uninterruptible power supply**
BAY Ö. F., ATACAĞ İ.
IEEE International Symposium on Industrial Electronics, Vigo, Spain, 4 - 07 June 2007, pp.707-712
- XXII. **Bulanık Mantık Denetimli Bir Fazlı Kesintisiz Güç Kaynağının Tasarımı ve Gerçekleştirilmesi**
ATACAĞ İ., BAY Ö. F.
Otomatik Kontrol Ulusal Toplantısı - TOK'06, Ankara, Turkey, 6 - 08 November 2006, vol.1, pp.62-67
- XXIII. **Design of a Single Phase Neuro-Fuzzy Controlled Uninterruptible Power Supply**
ATACAĞ İ., BAY Ö. F.
Fifteenth Turkish Symposium on Artificial Intelligence and Neural Network (TAINN-2006), Muğla, Turkey, 21 - 23 June 2006, vol.1, pp.41-48
- XXIV. **Sinirsel Bulanık Mantık Denetimli Bir Fazlı Kesintisiz Güç Kaynağı İçin Evirici Devresinin Tasarımı**
BAY Ö. F., ATACAĞ İ.
3rd International Advanced Technologies Symposium, Ankara, Turkey, 18 - 20 August 2003, vol.1, pp.174-191

Supported Projects

ATACAĞ İ., Project Supported by Higher Education Institutions, Bulanık-PI Denetimli, Üç Fazlı Paralel Aktif Güç Filtresinin Gerçekleştirilmesi, 2008 - 2011

Metrics

Publication: 55

Citation (WoS): 47

Citation (Scopus): 90

H-Index (WoS): 4

H-Index (Scopus): 5