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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-6576-2022

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Education Information

Doctorate, Illinois Institute of Technology, Armour College of Engineering, Electrical and Computer Engineering , United States Of America 1994 - 2000

Postgraduate, Illinois Institute of Technology, Armour College of Engineering, Electrical and Computer Engineering, United States Of America 1992 - 1994

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey 1985 - 1990

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Design and Optimization of Optical Diffractive Elements using Vector Space Projections and Pseudo Random Encoding, Illinois Institute of Technology, 2000

Research Areas

Engineering and Technology

Courses

Postgraduate

Random Variables and Stochastic Systems, Postgraduate, 2022 - 2023, 2021 - 2022

Advance Digital Signal Processing, Postgraduate, 2021 - 2022, 2020 - 2021

Undergraduate

Analog Communication, Undergraduate, 2022 - 2023, 2021 - 2022

Supervised Theses

GÜRKAN KUNTALP D., Diagnosis of lung diseases using pulmonary sounds, Doctorate, F.YASİN(Student), 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Comparative Study of Metaheuristic Feature Selection Algorithms for Respiratory Disease Classification**
GÜRKAN KUNTALP D., Özcan N., Düzyel O., Kababulut F. Y., KUNTALP M.
Diagnostics, vol.14, no.19, 2024 (SCI-Expanded)
- II. **A New Shapley-Based Feature Selection Method in a Clinical Decision Support System for the Identification of Lung Diseases**
Kababulut F. Y., Gürkan Kuntalp D., Düzyel O., Ozcan N., Kuntalp M.
DIAGNOSTICS, vol.13, no.23, 2023 (SCI-Expanded)
- III. **Modulation Classification of MFSK Modulated Signals Using Spectral Centroid**
Baris B., ÇEK M. E., GÜRKAN KUNTALP D.
WIRELESS PERSONAL COMMUNICATIONS, vol.119, no.1, pp.763-775, 2021 (SCI-Expanded)
- IV. **SIMPLE AND EFFICIENT PREDICTION OF NEAR FUTURE STATE OF TRAFFIC USING ONLY PAST SPEED INFORMATION**
Kababulut F. Y., GÜRKAN KUNTALP D., AKAY O., Duzenli T.
PROMET-TRAFFIC & TRANSPORTATION, vol.30, no.5, pp.589-599, 2018 (SCI-Expanded)
- V. **Complexity reduction of RBF multiuser detector for DS-CDMA using a genetic algorithm**
Torun M. U., GÜRKAN KUNTALP D.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, no.4, pp.1134-1150, 2013 (SCI-Expanded)
- VI. **Feature extraction for ECG heartbeats using higher order statistics of WPD coefficients**
KUTLU Y., GÜRKAN KUNTALP D.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.105, no.3, pp.257-267, 2012 (SCI-Expanded)
- VII. **A multi-stage automatic arrhythmia recognition and classification system**
Kutlu Y., GÜRKAN KUNTALP D.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.41, no.1, pp.37-45, 2011 (SCI-Expanded)
- VIII. **Optimizing the performance of an MLP classifier for the automatic detection of epileptic spikes**
Kutlu Y., KUNTALP M., GÜRKAN KUNTALP D.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.4, pp.7567-7575, 2009 (SCI-Expanded)
- IX. **High-diffraction-efficiency pseudorandom encoding**
Yang Y., Stark H., Gürkan Kuntalp D.
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A: OPTICS AND IMAGE SCIENCE, AND VISION, vol.17, no.2, pp.285-293, 2000 (SCI-Expanded)
- X. **Factors affecting convergence in the design of diffractive optics by iterative vector-space methods**
stark h., yang y., GÜRKAN KUNTALP D.
Journal of Optical Society of America A, vol.16, no.1, pp.149-159, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Challenges in Lung and Respiratory Sound Processing: Quantity and Quality of Available Data**
Gürkan Kuntalp D.

Journal of Intelligent Systems with Applications, vol.6, no.2, pp.44-54, 2023 (Peer-Reviewed Journal)

II. Teaching digital signal processing through modular based project oriented learning in electrical engineering

GÜRKAN KUNTALP D., KALAYCI DEMİR G., AKAY O.

International Journal of Teaching and Case Studies, vol.3, no.2/3/4, pp.196-208, 2011 (Peer-Reviewed Journal)

III. Elektrik ve Elektronik Mühendisliği Bünyesinde Biyomedikal Laboratuvarı Kurulumu

İşler Y., Selver M. A., Kutlu Y., Gürkan Kuntalp D., Kuntalp M.

Akademik Dizayn Dergisi, vol.2, no.3, pp.86-90, 2008 (Non Peer-Reviewed Journal)

IV. ELEKTRİK VE ELEKTRONİK MÜHENDİSLİĞİNDE MODÜLERTABANDA PROBLEME DAYALI EĞİTİM PROGRAMLARININ YAPILANDIRILMASI

ÖZKURT A., GÜRKAN KUNTALP D., ZORAL E. Y., KUNTALP M., ÖZTURA H., GÜNDÜZALP M., GÜZELİŞ C., ŞAHİN Ö. DEÜ MÜHENDİSLİK FAKÜLTESİ FEN VE MÜHENDİSLİK DERGİSİ, vol.7, no.3, pp.2330, 2005 (Peer-Reviewed Journal)

V. Vektör-uzayı İzdüşüm Metodu ile Özel Amaçlı Bir Kırınımsal Optik Eleman Tasarımı

GÜRKAN KUNTALP D.

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, no.8.sayı, 2001, pp.2001, 2001 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

I. Classification of arrhythmias using spectral features with K nearest neighbor method Aritmilerin spektral özellikler kullanılarak en yakın k komşu metoduyla sınıflandırılması

Hilavin I., KUNTALP M., GÜRKAN KUNTALP D.

2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.411-414

II. Clustering of arrhythmic ECG beats using morphological properties and windowed raw ECG data Artimik EKG vurularının morfolojik özellikleri ve pencerelenmiş ham EKG verilerini kullanarak gruplanması

Gezer B. L., GÜRKAN KUNTALP D., KUNTALP M.

2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.738-741

III. Feature reduction method using self organizing maps

Kutlu Y., Kuntalp D.

6th International Conference on Electrical and Electronics Engineering, ELECO 2009, Bursa, Turkey, 5 - 08 November 2009

IV. Özdüzenleyici Haritalar Kullanılarak Aritmik EKG Vurularının Topografik Analizi

KUTLU Y., KUNTALP M., GÜRKAN KUNTALP D.

13. Biyomedikal Mühendisliği Ulusal Toplantısı, Turkey, 29 - 31 May 2008

V. Özdüzenleyici haritalar Kullanılarak Diken Dalgalarının Analizi

KUTLU Y., KUNTALP M., GÜRKAN KUNTALP D.

Genç Bilim İnsanları ve Beyin Biyofiziği Çalıştayı, Turkey, 21 - 23 February 2008

VI. Musical genre classification using higher-order statistics

AVCU N., GÜRKAN KUNTALP D., ALPKOÇAK A.

IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.826-827

VII. Effect of the input window size in arrhythmia classification with multilayer perceptron network structures

Kutlu Y., KUNTALP M., GÜRKAN KUNTALP D.

IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.628-631

- VIII. **Classification of branch block beats using higher order spectral analysis and neural networks**
Torun M. U., Isler Y., GÜRKAN KUNTALP D., KUNTALP M.
IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.437-438
- IX. **Web based remote patient monitoring system**
Zeyhek M., Tavli M. M., GÜRKAN KUNTALP D., KUNTALP M.
IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.607-608
- X. **Detection of spikes with multiple layer perceptron network structures**
Kutlu Y., Isler Y., GÜRKAN KUNTALP D., KUNTALP M.
IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.277-278
- XI. **Comparison of Two Scenario Examples For a Freshman Year Module in Electrical and Electronics Engineering Program**
GÜRKAN KUNTALP D., KUNTALP M., KILINÇ S., ÖNAY A. B., ÖZEL M., AKGÜNGÖR K., GÜZELİŞ C.
New Information Technologies in Education, Turkey, 20 - 22 October 2004
- XII. **Software implementation of wireless indoor communication system using coherent QAM**
Cam S., GÜRKAN KUNTALP D.
IEEE 12th Signal Processing and Communications Applications Conference, Kusadasi, Turkey, 28 - 30 April 2004, pp.638-641
- XIII. **Elektrik ve Elektronik Mühendisliğinde Modüler Tabanda Aktif Programların Yapılandırılması Ölçme ve Değerlendirme**
ÖZTURA H., KUNTALP M., ÖZKURT A., ZORAL E. Y., GÜRKAN KUNTALP D., GÜZELİŞ C.
Elektrik, Elektronik, Bilgisayar Mühendislikleri Eğitimi 1. Ulusal Sempozyumu, Ankara, Turkey, 30 April - 02 May 2003
- XIV. **Elektrik ve Elektronik Mühendisliğinde Ders ve Modüler Tabanlı Eğitim Programlarında Takım Çalışması Üzerine Deneyimler**
ZORAL E. Y., ÖZKURT A., ÖZTURA H., GÜRKAN KUNTALP D., KUNTALP M.
Elektrik Elektronik Bilgisayar Mühendislikleri Eğitimi 1. Ulusal Sempozyumu, Ankara, Turkey, 30 April - 02 May 2003
- XV. **Elektrik ve Elektronik Mühendiliğinde Modüler tabanda aktif eğitim Programlarının Yapılandırılması, ölçme ve Değerlendirme**
ÖZKURT A., GÜRKAN KUNTALP D., ZORAL E. Y., ÖZTURA H., ŞAHİN Ö., KUNTALP M., GÜNDÜZALP M., GÜZELİŞ C.
Elektrik, Elektronik, Bilgisayar Mühendislikleri Eğitimi 1. Ulusal Sempozyumu ve Sergisi, Turkey, 30 April - 02 May 2003, pp.37-40
- XVI. **Integration in the freshman class in the electrical engineering curriculum**
ÖZKURT A., GÜZELİŞ C., KUNTALP M., GÜRKAN KUNTALP D., ZORAL E. Y.
New Information Technologies in Education Symposium, 1 - 05 September 2002
- XVII. **How to create scenarios for problem based EEE curriculum**
KUNTALP M., GÜRKAN KUNTALP D., ÖZTURA H., ZORAL E. Y., ÖZKURT A., GÜZELİŞ C.
New Information Technologies in Education Symposium, İzmir, Turkey, 2 - 05 September 2002
- XVIII. **Increasing Learning Performance via In Class Team Quizzes in EEE Courses**
ZORAL E. Y., GÜRKAN KUNTALP D., KUNTALP M., ÖZTURA H., GÜZELİŞ C.
New Information Technologies In Education Symposium, İzmir, Turkey, 1 - 05 September 2002
- XIX. **Building up design modules in problem based education**
ÖZKURT A., ÖZTURA H., KUNTALP M., GÜRKAN KUNTALP D., ZORAL E. Y., GÜZELİŞ C.
New Information Technologies in Education Symposium, İzmir, Turkey, 2 - 05 September 2002

Supported Projects

GÜRKAN KUNTALP D., Project Supported by Higher Education Institutions, İzmir Bölgesinde Spektrum Kullanım Yoğunluğunun Belirlenmesi, 2012 - 2015

Metrics

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