

Assoc. Prof. ADNAN FATİH KOCAMAZ

Personal Information

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International Researcher IDs

ORCID: 0000-0002-7729-8322

Yoksis Researcher ID: 120341

Education Information

Doctorate, Trakya University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2008 - 2011

Postgraduate, Trakya University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2005 - 2007

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Bilgisayar Bölümü, Turkey 1997 - 2001

Foreign Languages

English, B1 Intermediate

Research Areas

Information Systems, Communication and Control Engineering, Robotics and Mechatronics Systems, Computer Sciences, algorithms, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - 2018

Lecturer, Kırklareli University, Technical Sciences Vocational School, Department Of Electronics And Automation, 2002 - 2014

Academic and Administrative Experience

Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2014 - Continues

Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - 2017

Kırklareli University, Mühendislik Fakültesi, Yazılım Mühendisliği Bölümü, 2012 - 2012

Courses

Bilimsel Araştırma Teknikleri İle Araştırma ve Yayın Etiği, Undergraduate Double Major, 2019-2020

Bilgisayar Mühendisliğindeki Gelişmeler III, Undergraduate, 2019-2020

Lineer Cebir, Undergraduate, 2019-2020

Yapay Zeka (TS), Undergraduate, 2019-2020
Yapay Zeka (TS), Undergraduate, 2018-2019
Nesne Tabanlı Programlama, Undergraduate, 2018-2019
Girişimcilik, Undergraduate, 2018-2019
Lineer Cebir, Undergraduate, 2018-2019
Robotik, Undergraduate, 2018-2019
Özerk Robotlar, Undergraduate Minor, 2017-2018
Veri Yapıları, Undergraduate, 2017-2018
Robotik (TS), Undergraduate, 2017-2018
Robotik, Undergraduate Double Major, 2017-2018
Nesne Tabanlı Programlama, Undergraduate, 2017-2018
Algoritma ve Programlama I, Undergraduate, 2016-2017
Robotik (TS), Undergraduate, 2016-2017
Nesne Tabanlı Programlama, Undergraduate, 2016-2017
Özerk Robotlar, Undergraduate Minor, 2016-2017
Veri Yapıları, Undergraduate, 2016-2017
İleri Sayısal İşaret İşleme, Undergraduate Double Major, 2016-2017
Robotik, Undergraduate Double Major, 2016-2017
Algoritma ve Programlama II, Undergraduate, 2016-2017
Robotik, Undergraduate Double Major, 2015-2016
Algoritma ve Programlama I, Undergraduate, 2015-2016
Veri Yapıları, Undergraduate, 2015-2016
Mobil Cihazlar için Uygulama Geliştirme, Undergraduate, 2015-2016
Bilgisayar Mühendisliğine Giriş, Undergraduate, 2015-2016
Algoritma ve Programlama II, Undergraduate, 2015-2016
Robotik (TS), Undergraduate, 2015-2016
555 ÖZERK ROBOTLAR, Undergraduate Minor, 2014-2015
101 Bilgisayar Mühendisliğine Giriş, Undergraduate, 2014-2015
112 ALGORİTMA VE PROGRAMLAMA 2, Undergraduate, 2014-2015
412 MOBİL CİHAZLAR İÇİN UYGULAMA GELİŞTİRME, Undergraduate, 2014-2015
111 Algoritma Ve programlama 1, Undergraduate, 2014-2015
201 Veri Yapıları, Undergraduate, 2014-2015
422 ROBOTİK (SEÇMELİ), Undergraduate, 2014-2015
513 ROBOTİK, Undergraduate Double Major, 2014-2015
412 Mobil Cihazlar İçin Uygulama Geliştirme, Undergraduate, 2013-2014
513 Robotik, Undergraduate Double Major, 2013-2014
112 Algoritma ve Programlama 2, Undergraduate, 2013-2014
503 ileri Makine Öğrenmesi, Undergraduate Double Major, 2013-2014
364 Bilg Mühendisliğindeki Gelişmeler 2(seçmeli), Undergraduate, 2013-2014
422 Robotik (seçmeli), Undergraduate, 2013-2014

Advising Theses

KOCAMAZ A. F., Kardiyotokografi işaretlerinin analizi ve makine öğrenmesi teknikleri ile sınıflandırılması, Doctorate, Z.CÖMERT(Student), 2017
KOCAMAZ A. F., Sperm analizi için bilgisayar görüşü tabanlı yeni bir yaklaşım ve uygulaması, Postgraduate, F.OKUMUŞ(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Cloudware Architecture for Collaboration of Multiple AGVs in Indoor Logistics: Case Study in Fabric Manufacturing Enterprises**
Okumus F., Donmez E., KOCAMAZ A. F.
ELECTRONICS, vol.9, no.12, 2020 (SCI-Expanded)
- II. **A chaotic optimization method based on logistic-sine map for numerical function optimization**
Demir F. B., Tuncer T., KOCAMAZ A. F.
NEURAL COMPUTING & APPLICATIONS, vol.32, no.17, pp.14227-14239, 2020 (SCI-Expanded)
- III. **Global Path Planning and Path-Following for Wheeled Mobile Robot Using a Novel Control Structure Based on a Vision Sensor**
DİRİK M., KOCAMAZ A. F., Castillo O.
INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, vol.22, no.6, pp.1880-1891, 2020 (SCI-Expanded)
- IV. **Prediction of compressive strength and ultrasonic pulse velocity of admixed concrete using tree model M5P**
Kocamaz A. F., Ayaz Y., Karakoç M. B., Türkmen İ., Demirboga R.
STRUCTURAL CONCRETE, 2020 (SCI-Expanded)
- V. **A survival classification method for hepatocellular carcinoma patients with chaotic Darcy optimization method based feature selection**
Demir F. B., Tuncer T., KOCAMAZ A. F., ERTAM F.
MEDICAL HYPOTHESES, vol.139, 2020 (SCI-Expanded)
- VI. **Visual servoing based control methods for nonholonomic mobile robot**
DİRİK M., KOCAMAZ A. F., DÖNMEZ E.
JOURNAL OF ENGINEERING RESEARCH, vol.8, no.2, pp.95-113, 2020 (SCI-Expanded)
- VII. **Design of Mobile Robot Control Infrastructure Based on Decision Trees and Adaptive Potential Area Methods**
DÖNMEZ E., KOCAMAZ A. F.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, vol.44, no.1, pp.431-448, 2020 (SCI-Expanded)
- VIII. **Efficient approach for digitization of the cardiocography signals**
Comert Z., ŞENGÜR A., AKBULUT Y., BUDAK Ü., KOCAMAZ A. F., Bajaj V.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.537, 2020 (SCI-Expanded)
- IX. **Identification of haploid and diploid maize seeds using convolutional neural networks and a transfer learning approach**
Altuntas Y., Comert Z., KOCAMAZ A. F.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.163, 2019 (SCI-Expanded)
- X. **A Vision-Based Real-Time Mobile Robot Controller Design Based on Gaussian Function for Indoor Environment**
DÖNMEZ E., KOCAMAZ A. F., DİRİK M.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.43, no.12, pp.7127-7142, 2018 (SCI-Expanded)
- XI. **Prognostic model based on image-based time-frequency features and genetic algorithm for fetal hypoxia assessment**
CÖMERT Z., KOCAMAZ A. F., Subha V.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.99, pp.85-97, 2018 (SCI-Expanded)
- XII. **Open-access software for analysis of fetal heart rate signals**
CÖMERT Z., KOCAMAZ A. F.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.45, pp.98-108, 2018 (SCI-Expanded)
- XIII. **Comparison of Machine Learning Techniques for Fetal Heart Rate Classification**
Comert Z., Kocamaz A. F.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.451-454, 2017 (SCI-Expanded)
- XIV. **Modeling of compressive strength and UPV of high-volume mineral-admixed concrete using rule-based M5 rule and tree model M5P classifiers**

AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.

CONSTRUCTION AND BUILDING MATERIALS, vol.94, pp.235-240, 2015 (SCI-Expanded)

XV. **Continuous rotation invariant features for gradient-based texture classification**

HANBAY K., ALPASLAN N., TALU M. F., HANBAY D., KARCI A., KOCAMAZ A. F.

COMPUTER VISION AND IMAGE UNDERSTANDING, vol.132, pp.87-101, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Using polynomial modeling for calculation of quality parameters in computer assisted sperm analysis**
OKUMUŞ F., KOCAMAZ A. F., ÖZGÜR M. E.
Computer Science, vol.6, no.3, pp.152-165, 2021 (Peer-Reviewed Journal)
- II. **ADAPTIVE OPERATION MODEL FOR INTERIOR SMART LOGISTICS IN CYBER PHYSICAL SYSTEMS**
DÖNMEZ E., OKUMUŞ F., KOCAMAZ A. F.
SELCUK UNIVERSITY JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY, vol.9, no.4, pp.965-980, 2021 (Peer-Reviewed Journal)
- III. **Prediction of intrapartum fetal hypoxia considering feature selection algorithms and machine learning models**
Comert Z., ŞENGÜR A., BUDAK Ü., KOCAMAZ A. F.
HEALTH INFORMATION SCIENCE AND SYSTEMS, vol.7, no.1, 2019 (ESCI)
- IV. **Visual-Servoing Based Global Path Planning Using Interval Type-2 Fuzzy Logic Control**
DİRİK M., Castillo O., KOCAMAZ A. F.
AXIOMS, vol.8, no.2, 2019 (ESCI)
- V. **A Novel Computer Assisted Sperm Analyzer for Assessment of Spermatozoa Motility in Fish BASA-Sperm Aqua**
ÖZGÜR M. E., OKUMUŞ F., KOCAMAZ A. F.
El-Cezeri Journal of Science and Engineering, vol.6, no.1, pp.208-219, 2019 (Peer-Reviewed Journal)
- VI. **Aynalı Sazan (Cyprinus carpio) Balığında İmaj J-Fiji ile Sperm Hücresi Hareketlilik ve Hız Analizi**
ÖZGÜR M. E., Okumus F., TALU M. F., ATEŞ B., KOCAMAZ A. F., Gürçay S., ERDOĞAN S.
El-Cezerî Journal of Science and Engineering, vol.5, pp.828-835, 2018 (Peer-Reviewed Journal)
- VII. **Aynalı Sazan (Cyprinus carpio) Balığında İmaj J-Fiji ile Sperm Hücresi Hareketlilik ve Hız Analizi**
ÖZGÜR M. E., OKUMUŞ F., TALU M. F., ATEŞ B., KOCAMAZ A. F., GÜRÇAY S., ERDOĞAN S.
El-Cezeri Journal of Science and Engineering, vol.5, no.3, pp.828-835, 2018 (Peer-Reviewed Journal)
- VIII. **Realization of a Hybrid Face Detecting and Verifying System**
DİRİK M., HANBAY D., KOCAMAZ A. F.
International Journal of Computer Applications, vol.179, no.12, pp.20-25, 2018 (Peer-Reviewed Journal)
- IX. **Fractional Order Darwinian PSO with Constraint Threshold for Load Flow Optimization of Energy Transmission System**
AKDAG O., Okumus F., KOCAMAZ A. F., YEROĞLU C.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.3, pp.831-844, 2018 (ESCI)
- X. **A Study of Artificial Neural Network Training Algorithms for Classification of Cardiotocography Signals**
CÖMERT Z., KOCAMAZ A. F.
Bitlis Eren University Journal of Science and Technology, vol.7, no.2, pp.93-103, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Multi-robot Path Planning Using Fractional Order Darwinian Particle Swarm Optimization Algorithm**
OKUMUŞ F., KOCAMAZ A. F.

5. Uluslararası Bölgesel Kalkınma Konferansı, 26 - 28 September 2019

- II. **Cloud Based Indoor Navigation for ROS-enabled Automated Guided Vehicles**
OKUMUŞ F., KOCAMAZ A. F.
2019 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 21 - 22 September 2019
- III. **Fetal Hypoxia Detection Based on Deep Convolutional Neural Network with Transfer Learning Approach**
CÖMERT Z., KOCAMAZ A. F.
7th Computer Science On-Line Conference (CSOC), ELECTR NETWORK, 01 April 2018, vol.763, pp.239-248
- IV. **Comparing Path Planning Algorithms for Multiple Mobile Robots**
Okumus F., KOCAMAZ A. F.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- V. **A Hog & Graph Based Human Segmentation from Video Sequences**
DÖNMEZ E., KOCAMAZ A. F.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- VI. **PID Optimization on Differential Drive Mobile Robot**
Kazanci C. H., KOCAMAZ A. F.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- VII. **Classification of Haploid and Diploid Maize Seeds by Using Image Processing Techniques and Support Vector Machines**
Altuntas Y., KOCAMAZ A. F., Cengiz R., Esmeray M.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- VIII. **Exploring the Feasibility of a Multifunctional Software Platform for Cloud Robotics**
Okumus F., Kocamaz A. F.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- IX. **Identification of Haploid Maize Seeds using Gray Level Co-occurrence Matrix and Machine Learning Techniques**
Altuntas Y., KOCAMAZ A. F., CÖMERT Z., Cengiz R., Esmeray M.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- X. **Multi Target Task Distribution and Path Planning for Multi-Agents**
DÖNMEZ E., KOCAMAZ A. F.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XI. **Performance Evaluation of Empirical Mode Decomposition and Discrete Wavelet Transform for Computerized Hypoxia Detection and Prediction**
CÖMERT Z., Yang Z., Velappan S., Boopathi A. M., KOCAMAZ A. F.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XII. **The Influences of Different Window Functions and Lengths on Image-based Time-Frequency Features of Fetal Heart Rate Signals**
CÖMERT Z., Boopathi A. M., Velappan S., Yang Z., KOCAMAZ A. F.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XIII. **Visual Servoing Based Path Planning For Wheeled Mobile Robot in Obstacle Environments**
DİRİK M., KOCAMAZ A. F., DÖNMEZ E.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XIV. **Static Path Planning Based on Visual Servoing via Fuzzy Logic**

- DİRİK M., KOCAMAZ A. F., DÖNMEZ E.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XV. **Visual Based Path Planning with Adaptive Artificial Potential Field**
DÖNMEZ E., KOCAMAZ A. F., DİRİK M.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XVI. **Using Wavelet Transform for Cardiotocography Signals Classification**
CÖMERT Z., KOCAMAZ A. F.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XVII. **Cardiotocography Analysis based on Segmentation-based Fractal Texture Decomposition and Extreme Learning Machine**
CÖMERT Z., KOCAMAZ A. F.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XVIII. **Bi-RRT Path Extraction and Curve Fitting Smooth with Visual Based Configuration Space Mapping**
DÖNMEZ E., KOCAMAZ A. F., DİRİK M.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XIX. **A Novel Software for Comprehensive Analysis of Cardiotocography Signals "CTG-OAS"**
CÖMERT Z., KOCAMAZ A. F.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XX. **Mobilizasyon ile Desteklenmiş Akıllı Saha Hizmetleri Yönetimi**
OKUMUŞ F., KOCAMAZ A. F., DEMİR F. B., KOCAMAN Y.
International Symposium of Water and Wastewater Management, 26 - 28 October 2016
- XXI. **Su ve Kanalizasyon İdareleri için Bütünleşik Veri Analizi Sistemi**
OKUMUŞ F., KOCAMAZ A. F., KOCAMAN Y.
International Artificial Intelligence and Data Processing Symposium'xx16, 17 - 18 September 2016
- XXII. **Vision-Based Decision Tree Controller Design Method Sensorless Application by using Angle Knowledge**
DİRİK M., KOCAMAZ A. F., DÖNMEZ E.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1849-1852
- XXIII. **Classification and Comparison of Cardiotocography Signals with Artificial Neural Network and Extreme Learning Machine**
CÖMERT Z., KOCAMAZ A. F., Gungor S.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1493-1496
- XXIV. **Robot Control with Graph Based Edge Measure in Real Time Image Frames**
DÖNMEZ E., KOCAMAZ A. F., DİRİK M.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1789-1792
- XXV. **Detection and Counting of Oncorhynchus Mykiss Spermatozoa**
Okumus F., KOCAMAZ A. F., Ozgur M. E.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1805-1808
- XXVI. **Determination of QT Interval on Synthetic Electrocardiogram**
CÖMERT Z., KOCAMAZ A. F.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2569-2572
- XXVII. **Video Tabanlı Uykulu Sürücü Algılama Sistemi**
GOLGİYZ S., KOCAMAZ A. F., OKUMUŞ F.
Eleco 2014 Elektrik – Elektronik – Bilgisayar ve Biyomedikal Mühendisliği Sempozyumu, Turkey, 27 - 29 November

2014

- XXVIII. **Modeling of compressive strength and UPV of high volume mineral admixtured concrete with rule based M5 rule and tree model M5P classifiers**
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.
8th International Conference On Advanced Computational Engineering And Experiment, 30 June - 03 July 2014
- XXIX. **Modelling Of Compressive Strength And Upv Of High-Volume Mineral-Admixtured Concrete With Rule-Based M5 Rule And Tree Model M5p Classifiers**
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.
8th International Conference On Advanced Computational Engineering And Experiment(ACEX 2014) Paris, Paris, France, 30 June - 03 July 2014
- XXX. **Modeling of compressive strength and UPV of high-volume mineral-admixtured concrete with rule-based M5 rule and tree model M5P classifiers**
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.
8th International Conference On Advanced Computational Engineering And Experiment, Paris, France, 30 June - 03 July 2014, pp.57-58
- XXXI. **Modeling of compressive strength and UPV of high-volume mineral-admixtured concrete with rule-based M5 rule and tree model M5P classifiers**
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.
8th International Conference On Advanced Computational Engineering And Experiment, Paris, France, 30 June - 03 July 2014, pp.57-58

Supported Projects

KOCAMAZ A. F., DÖNMEZ E., EREN B., YUMRUTEPE K., ÖZER M. A., ARICA B. B., Project Supported by Higher Education Institutions, İplik Üretiminde Hata Kaynaklarının RFID Tekniği ile Belirlenmesi, 2018 - 2021

KOCAMAZ A. F., Project Supported by Higher Education Institutions, ROBOTİK VE YAPAY ZEKA EĞİTİMİ, ROBOTİK LABORATUVARI, 2014 - 2018

Metrics

Publication: 57

Citation (WoS): 183

Citation (Scopus): 210

H-Index (WoS): 7

H-Index (Scopus): 9

Non Academic Experience

İNFINA Yazılım A.Ş.

Çalık Denim Ar-Ge Merkezi

Malatya Teknopark

Dünya Sanal Mağazacılık (DSM)

BaşarSoft Bilgi Teknolojileri A.Ş.

Şahtaş Tekstil A.Ş.

TÜBİTAK

İnönü Üniversitesi

Galileo Tıp Teknolojileri A.Ş.

Hilteks Tekstil Tic. A.Ş.