Asst. Prof. İsmail AKGÜL

Personal Information

Office Phone: +90 446 224 0088 Extension: 43412

Email: iakgul@erzincan.edu.tr

Web: https://avesis.ebyu.edu.tr/iakgul

Address: 24000

International Researcher IDs

ScholarID: F3IlTnMAAAAJ ORCID: 0000-0003-2689-8675

Publons / Web Of Science ResearcherID: JHU-5979-2023

ScopusID: 58098184400 Yoksis Researcher ID: 30566

Education Information

Doctorate, Erzincan Binali Yildirim University, Sosyal Bilimler Enstitüsü, İşletme, Turkey 2014 - 2019

Postgraduate, Beykent University, Institute Of Social Sciences, İşletme, Turkey 2009 - 2011

Undergraduate, Firat University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2000 - 2004

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, The mediating role of perceived organizational support in the effect of knowledge sharing on the employee creativity and innovative behavior: A research on information technology employees, Erzincan Binali Yildirim University, Sosyal Bilimler Enstitüsü, İşletme, 2019

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Neural Networks

Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği Bölümü, 2020 - Continues

Lecturer, Erzincan Binali Yildirim University, Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü, 2008 - 2020

Academic and Administrative Experience

Vice Dean, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, 2023 - Continues

Head of Department, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği Bölümü, 2020 - Continues

Deputy Head of Department, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği Bölümü, 2020 - 2024

Head of Department, Erzincan Binali Yildirim University, Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü, 2015 - 2020

Assistant Manager of Research and Application Center, Erzincan Binali Yildirim University, Rektörlük, Uzaktan Eğitim Uygulama ve Araştırma Merkezi, 2011 - 2015

Courses

Graduation Project 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Natural Language Processing, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Algorithm Analysis, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Visual Programming, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Object Oriented Programming, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Graduation Project 2, Undergraduate, 2022 - 2023, 2021 - 2022

Computer Engineering Design, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Deep Learning, Postgraduate, 2022 - 2023, 2021 - 2022

Mobile Programming, Undergraduate, 2021 - 2022, 2020 - 2021

Web Programming, Undergraduate, 2021 - 2022, 2020 - 2021

VERİTABANI-II (N.Ö.)(1.GRUP), Associate Degree, 2018 - 2019, 2016 - 2017

MOBİL PROGRAMLAMA (N.Ö.), Associate Degree, 2018 - 2019, 2016 - 2017

NESNE TABANLI PROGRAMLAMA-I (N.Ö.)(1.GRUP), Associate Degree, 2018 - 2019, 2016 - 2017

OFİS PROGRAMLARI (BÜRO), Associate Degree, 2018 - 2019

Bilgisayar II (Beden Eğitimi), Undergraduate, 2018 - 2019

VERİTABANI 2 (İ.Ö), Associate Degree, 2017 - 2018

KLAVYE KULLANIMI, Associate Degree, 2018 - 2019

BİLGİ VE İLETİŞİM TEKNOLOJİSİ (MODA), Associate Degree, 2018 - 2019

YÖNETİM BİLİŞİM SİSTEMLERİ, Associate Degree, 2018 - 2019, 2017 - 2018

VERİTABANI-I (N.Ö.), Associate Degree, 2018 - 2019, 2017 - 2018

YÖNETİM BİLİŞİM SİSTEMLERİ (BÜRO), Associate Degree, 2018 - 2019

BİLGİ VE İLETİŞİM TEKNOLOJİSİ (BÜRO), Associate Degree, 2018 - 2019

NESNE TABANLI PROGRAMLAMA 1 (N.Ö), Associate Degree, 2017 - 2018

NESNE TABANLI PROGRAMLAMA 1 (İ.Ö), Associate Degree, 2017 - 2018

NESNE TABANLI PROGRAMLAMA-II (N.Ö.), Associate Degree, 2018 - 2019, 2017 - 2018

OFİS PROGRAMLARI, Associate Degree, 2017 - 2018

BİLGİ VE İLETİŞİM TEKNOLOJİSİ (İNŞAAT), Associate Degree, 2018 - 2019

MOBİL PROGRAMLAMA (N.Ö + İ.Ö), Associate Degree, 2017 - 2018

BİLGİ VE İLETİŞİM TEKNOLOJİSİ (LOJİSTİK), Associate Degree, 2018 - 2019

VERİTABANI 2 (N.Ö), Associate Degree, 2017 - 2018

YÖNETİM BİLİŞİM SİSTEMLERİ, Associate Degree, 2017 - 2018

NESNE TABANLI PROGRAMLAMA-I (İ.Ö.), Associate Degree, 2016 - 2017

VERİTABANI-II (N.Ö.)(2.GRUP), Associate Degree, 2016 - 2017

VERİTABANI-II (İ.Ö.), Associate Degree, 2016 - 2017

BİLGİ VE İLETİŞİM TEKNOLOJİSİ, Associate Degree, 2017 - 2018

VERİTABANI-I (İ.Ö.), Associate Degree, 2017 - 2018

MOBİL PROGRAMLAMA (İ.Ö.), Associate Degree, 2016 - 2017

NESNE TABANLI PROGRAMLAMA-I (N.Ö.)(2.GRUP), Associate Degree, 2016 - 2017

BİLGİ VE İLETİŞİM TEKNOLOJİSİ, Associate Degree, 2017 - 2018

NESNE TABANLI PROGRAMLAMA-II (İ.Ö.), Associate Degree, 2017 - 2018

BİLGİ VE İLETİŞİM TEKNOLOJİSİ, Associate Degree, 2017 - 2018

MOBİL PROGRAMLAMA, Associate Degree, 2014 - 2015

VERİTABANI-I, Associate Degree, 2014 - 2015

NESNE TABANLI PROGRAMLAMA-II, Associate Degree, 2014 - 2015

VERİTABANI-II, Associate Degree, 2014 - 2015

YÖNETİM BİLİŞİM SİSTEMLERİ, Associate Degree, 2014 - 2015

NESNE TABANLI PROGRAMLAMA-I, Associate Degree, 2014 - 2015

Advising Theses

Akgül İ., Enhancement of speech signals using artificial intelligence models, Postgraduate, A.Gündüz(Student), Continues Akgül İ., Detection and classification of diseases seen on grape leaf with deep learning, Postgraduate, U.Fırat(Student), Continues

Akgül İ., Detection of personal equipment used in occupational safety with artificial intelligence based image processing techniques, Postgraduate, M.Ertuğrul(Student), Continues

Akgül İ., Detecting terror threat elements by natural language processing, Postgraduate, A.Güler (Student), 2023

Published journal articles indexed by SCI, SSCI, and AHCI

 A Pooling Method Developed for Use in Convolutional Neural Networks Akgül İ.

CMES - COMPUTER MODELING IN ENGINEERING AND SCIENCES, vol.141, no.1, pp.751-770, 2024 (SCI-Expanded)

II. A Novel Artificial Intelligence-Based Hybrid System to Improve Breast Cancer DetectionUsing DCE-

Akgül İ., Kaya V., Karavaş E., Aydın S., Baran A.

BULLETIN OF THE POLISH ACADEMY OF SCIENCES. TECHNICAL SCIENCES, vol.72, no. 3, pp.1-11, 2024 (SCI-Expanded)

III. Covid-19 detection on x-ray images using a deep learning architecture

Akgül İ., Kaya V., Ünver E., Karavaş E., Baran A., Tuncer S.

JOURNAL OF ENGINEERING RESEARCH, vol.11, no.2B, pp.15-26, 2023 (SCI-Expanded)

IV. Mobile-DenseNet: Detection of building concrete surface cracks using a new fusion technique based on deep learning

Akgül İ.

HELIYON, vol.9, no.10, pp.1-11, 2023 (SCI-Expanded)

V. A Novel Hybrid Model Based on Machine and Deep Learning Techniques for the Classification of Microalgae

Kaya V., Akgül İ., Tanır Ö. Z.

Phyton-International Journal of Experimental Botany, vol.92, no.9, pp.2519-2534, 2023 (SCI-Expanded)

VI. A novel hybrid system for automatic detection of fish quality from eye and gill color characteristics using transfer learning technique.

Akgül İ., Kaya V., Zencir Tanır Ö.

PloS one, vol.18, no.4, 2023 (SCI-Expanded)

VII. IsVoNet8: A Proposed Deep Learning Model for Classification of Some Fish Species

Kaya V., Akgül İ., Zencir Tanır Ö.

TARIM BILIMLERI DERGISI, vol.29, no.1, pp.298-307, 2023 (SCI-Expanded)

Articles Published in Other Journals

I. Deep convolutional neural networks for age and gender estimation using an imbalanced dataset of human face images

Akgül İ.

NEURAL COMPUTING AND APPLICATIONS, 2024 (Scopus)

II. Detecting terror threat elements using natural language processing

Güler A., Akgül İ.

Journal of Scientific Reports-B, no.010, pp.1-12, 2024 (Peer-Reviewed Journal)

III. Deep Learning Based Models for Detection of Diabetic Retinopathy

Akgül İ., Yavuz Ö. Ç., Yavuz U.

TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.17, no.4, pp.581-587, 2023 (ESCI)

IV. A Novel Deep Learning Method for Detecting Defects in Mobile Phone Screen Surface Based on Machine Vision

Akgül İ.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.27, no.2, pp.442-451, 2023 (Peer-Reviewed Journal)

V. Classification of skin cancer using VGGNet model structures

Kaya V., Akgül İ.

Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.13, no.1, pp.190-198, 2023 (Peer-Reviewed Journal)

VI. Detection of Defects in Printed Circuit Boards with Machine Learning and Deep Learning Algorithms Kaya V., Akgül İ.

Avrupa Bilim ve Teknoloji Dergisi, no.41, pp.183-186, 2022 (Peer-Reviewed Journal)

VII. OBJECT RECOGNITION WITH DEEP LEARNING AND MACHINE LEARNING METHODS

Akgül İ., Aydın Y.

Technological Applied Sciences, vol.17, no.4, pp.54-61, 2022 (Peer-Reviewed Journal)

VIII. REALIZATION OF A YOLO-V3-BASED APPLICATION FOR THE DETECTION OF TICK-BORNE CASES Akgül İ., Kaya V.

Engineering Sciences, vol.17, no.3, pp.35-41, 2022 (Peer-Reviewed Journal)

IX. Emotion Recognition from Facial Expressions by Deep Learning Model

Akar F., Akgül İ.

Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.1, pp.69-79, 2022 (Peer-Reviewed Journal)

X. CLASSIFICATION of CELLS INFECTED with the MALARIA PARASITE with RESNET ARCHITECTURES Akgül İ., Kaya V.

Journal of scientific reports-A (Online), no.048, pp.42-54, 2022 (Peer-Reviewed Journal)

XI. The Mediating Role of Perceived Organizational Support on the Relationship between Tacit Knowledge Sharing and Employee Creativity

Akgül İ., Yavuz U.

JOURNAL OF GRADUATE SCHOOL OF SOCIAL SCIENCES, vol.25, no.1, pp.193-213, 2021 (Peer-Reviewed Journal)

XII. INVESTIGATION OF IT EMPLOYEES' INNOVATIVE BEHAVIORS IN TERMS OF DEMOGRAPHIC CHARACTERISTICS

Akgül İ., Yavuz U.

Erzincan Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, vol.12, no.1, pp.54-72, 2019 (Peer-Reviewed Journal)

XIII. The Mediating Effect of Job Satisfaction on the Relationship Between Leadership Styles and Organizational Commitment: A Study of Academicians

Yücel İ., Akgül İ.

Cumhuriyet Üniversitesi İktisadi ve İdari Bilimler Dergisi, vol.17, no.1, pp.209-226, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. ACTIVATION FUNCTIONS USED IN ARTIFICIAL NEURAL NETWORKS

Akgül İ.

in: Academic Studies in Engineering, Prof. Dr. Çoşkun ÖZALP, Editor, Gece Kitaplığı, Ankara, pp.41-58, 2023

II. OBJECT DETECTION WITH ARTIFICIAL INTELLIGENCE: YOLO APPLICATION

Kaya V., Akgül İ.

in: Interdisciplinary Engineering Sciences Concepts, Researches and Applications, Prof. Dr. Serkan Islak, Editor, Livre de Lyon, Lyon, pp.109-126, 2022

III. Learning Performance of Optimization Algorithms in Convolutional Neural Networks: An Application Akgül İ., Kaya V.

in: INSAC Scientific Researches in Natural and Engineering Sciences, Doç.Dr. Sadık Alper Yıldızel,Doç. Dr. Selmin Ener Ruşen, Editor, Duvar Yayınları, Ankara, pp.215-236, 2022

Refereed Congress / Symposium Publications in Proceedings

I. The Effect on Model Performance of Increasing the Batch Size during Training

Akgül İ.

4th Global Conference on Engineering Research (GLOBCER'24), Balikesir, Turkey, 16 - 19 October 2024, pp.14-20

II. A REVIEW ON THE SCIENCE OF NATURAL LANGUAGE PROCESSING

Güler A., Akgül İ.

3rd INTERNATIONAL AZERBAIJAN CONGRESS ON LIFE, ENGINEERING, AND APPLIED SCIENCES, Baku, Azerbaijan, 26 - 28 November 2022, pp.126-133

III. Classification of Electronic Circuit Elements by Machine Learning Based Methods

Kaya V., Akgül İ.

6th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL & APPLIED SCIENCE, Ağrı, Turkey, 11 - 13 October 2022, pp.136-140

IV. Recognition and Classification of Vegetable Types in Agricultural Areas Using the Mobilenet Model Structure

Kaya V., Akgül İ.

1st International Computer Science, Engineering and Information Technology Congress (ICSITY 2022), Warszawa, Poland, 29 - 30 September 2022, pp.63-70

V. DETECTION BASED ON TRANSFER LEARNING APPROACH FOR PREVENTION AND EARLY DETECTION OF PEACH PLANT DISEASE FROM LEAF IMAGES

Akgül I., Kaya V.

USBILIM 2nd International Conference on Artificial Intelligence Studies, Ankara, Turkey, 17 - 18 September 2022, pp.99-104

VI. A REVIEW ON ARTIFICIAL NEURAL NETWORKS

Akgül İ., Kaya V.

Rumeli 1ST International Scientific Research Conference On Sustainable Engineering And Technology (ISRCSET'22), İstanbul, Turkey, 13 - 15 May 2022, pp.136-145

VII. DETECTION OF POTHOLES ON HIGHWAY USING DEEP LEARNING

Kaya V., Akgül İ.

Akgül İ., Kaya V., Baran A.

7th INTERNATIONAL CONGRESS ON ENGINEERING AND TECHNOLOGY MANAGEMENT, İstanbul, Turkey, 16 - 18 April 2022, pp.361-367

VIII. Examination of Facial Mask Detection Using Deep Learning Methods Against Coronavirus

4. Uluslararası İpek Yolu Akademik Çalışmalar Sempozyumu, Nevşehir, Turkey, 17 - 18 December 2020, pp.149-154

Supported Projects

Akgül İ., Project Supported by Higher Education Institutions, Evrişimli sinir ağı modellerinin eğitimi sırasında parti boyutunun artırılmasının model performansı üzerindeki etkisi, 2024 - 2025

Doğankaya L., Akgül İ., Kaya V., TUBITAK Project, Yapay Zeka Destekli Larva Sayım Cihazı, 2023 - 2024

Scientific Refereeing

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, August 2024

Journal of Scientific Reports-C, Other Indexed Journal, January 2024

EXPERT SYSTEMS WITH APPLICATIONS, Journal Indexed in SCI-E, August 2023

Journal of Scientific Reports-B, Other Indexed Journal, June 2023

JOURNAL OF ENGINEERING RESEARCH, Journal Indexed in SCI-E, June 2023

ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, Journal Indexed in SCI-E, June 2023

ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, Journal Indexed in SCI-E, May 2023

Artificial Intelligence Studies, Other Indexed Journal, May 2023

PLOS ONE, Journal Indexed in SCI-E, November 2022

Journal of scientific reports-A (Online), Other Indexed Journal, May 2022

Eskişehir Türk Dünyası Uygulama ve Araştırma Merkezi Bilişim Dergisi, Other Indexed Journal, May 2022

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, December 2021

Düzce Üniversitesi Bilim ve Teknoloji Dergisi, Other Indexed Journal, October 2021

ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, Other Indexed Journal, October 2021

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, September 2021

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, August 2021

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, January 2021

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, July 2020

Metrics

Publication: 31 Citation (WoS): 16 Citation (Scopus): 20 H-Index (WoS): 3 H-Index (Scopus): 3

Non Academic Experience

MNG Kargo 4T Bilişim Sistemleri Tristit Group