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International Researcher IDs

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Education Information

Postgraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2012 - 2015

Undergraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2005 - 2010

Dissertations

Postgraduate, Q Regression Neural Network, Cukurova University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2015

Academic Titles / Tasks

Assistant Professor, Cukurova University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2023 - Continues

Assistant Professor, Iskenderun Technical University, Faculty Of Engineering And Natural Sciences, Department Of Computer Engineering, 2020 - 2023

Research Assistant, Iskenderun Technical University, Faculty Of Engineering And Natural Sciences, Department Of Computer Engineering, 2018 - 2020

Research Assistant, Cukurova University, 2014 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Illuminate the night: lightweight fusion and enhancement model for extreme low-light burst images**
Avşar H., SARIGÜL M., Karacan L.
Journal of Real-Time Image Processing, vol.21, no.6, 2024 (SCI-Expanded)
- II. **Logarithmic Learning Differential Convolutional Neural Network**
Yasin M., SARIGÜL M., AVCI M.
Neural Networks, vol.172, 2024 (SCI-Expanded)
- III. **Region contrastive camera localization**
Sarigul M., Karacan L.
PATTERN RECOGNITION LETTERS, vol.169, pp.110-117, 2023 (SCI-Expanded)
- IV. **Deep Convolutional Generalized Classifier Neural Network**
Sarigul M., ÖZYILDIRIM B. M., AVCI M.
NEURAL PROCESSING LETTERS, vol.51, no.3, pp.2839-2854, 2020 (SCI-Expanded)

- V. **Differential convolutional neural network**
Sarigul M., ÖZYILDIRIM B. M., AVCI M.
NEURAL NETWORKS, vol.116, pp.279-287, 2019 (SCI-Expanded)
- VI. **Estimation of daily global solar radiation using deep learning model**
Kaba K., Sarigul M., AVCI M., KANDIRMAZ H.
ENERGY, vol.162, pp.126-135, 2018 (SCI-Expanded)
- VII. **Q LEARNING REGRESSION NEURAL NETWORK**
SARIGUL M., AVCI M.
NEURAL NETWORK WORLD, vol.28, no.5, pp.415-431, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Görüntü Sınıflandırma Görevi için CNN Kanal Dikkat Modüllerinin Performans Analizi**
SARIGÜL M.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, pp.35-40, 2023 (Peer-Reviewed Journal)
- II. **Learning-Based Image Rendering**
SOLMAZ M. K., SARIGÜL M., KARACAN L.
Journal of Intelligent Systems with Applications, 2022 (Peer-Reviewed Journal)
- III. **Scene Construction from Depth Map Using Image-to-Image Translation Model**
AVŞAR H., SARIGÜL M., KARACAN L.
Journal of Intelligent Systems with Applications, 2022 (Peer-Reviewed Journal)
- IV. **Interpolation-Based Smart Video Stabilization**
Dervişoğlu S., SARIGÜL M., KARACAN L.
Journal of Intelligent Systems with Applications, 2021 (Peer-Reviewed Journal)
- V. **Classifying stable and unstable videos with deep convolutional networks**
SARIGÜL M., KARACAN L.
Journal of Intelligent Systems with Applications, 2020 (Peer-Reviewed Journal)
- VI. **Performance comparison of different momentum techniques on deep reinforcement learning**
SARIGÜL M., AVCI M.
JOURNAL OF INFORMATION AND TELECOMMUNICATION, vol.2, no.2, pp.205-216, 2018 (Peer-Reviewed Journal)
- VII. **Comparison of Different Deep Structures for Fish Classification**
SARIGÜL M., AVCI M.
International Journal of Computer Theory and Engineering, vol.9, no.5, pp.362-366, 2017 (Peer-Reviewed Journal)
- VIII. **Position resolution study at high energies of a sampling electromagnetic calorimeter whose active material is a scintillator with Peroxide-cured polysiloxane base**
Aydin G., Sarigul M., Sarigul H.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.955, 1 (Peer-Reviewed Journal)
- IX. **A survey on digital video stabilization**
Sarigul M.
MULTIMEDIA TOOLS AND APPLICATIONS, 1 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Case Study: Deep Convolutional Networks in Healthcare**
Avcı M., Sarigül M., Özyıldırım B. M.
in: Development and Analysis of Deep Learning Architectures, Pedrycz Witold, Chen Shyi-Ming, Editor, Springer, pp.61-89, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Prompting Large Language Models for Aerial Navigation**
Balcı E., Sarıgöl M., Ata B.
2024 9th International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 26 October 2024, pp.304-309
- II. **Comparison of Machine Learning Methods in Assessing Druglikeness of Chemical Molecules: Example of Lipinski Descriptors and Lipinski Rules Kimyasal Moleküllerin İlaç Benzerliği Değerlendirmesinde Makine Öğrenimi Metotlarının Kıyaslanması: Lipinski Descriptörleri ve Lipinski Kuralları Örneği**
Kuşçu A., SARIGÖL M.
32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024
- III. **AN OPTIMIZATION-BASED VIDEO STABILIZATION APPROACH**
Dervişođlu S., SARIGÖL M., KARACAN L.
6th INTERNATIONAL ICONTECH CONFERENCE ON INNOVATIVE SURVEYS IN POSITIVE SCIENCES, Rijeka, Croatia, 04 December 2022, pp.145-149
- IV. **Görüntü Tabanlı Kamera Konumlandırma İçin Farklı Eniyileme Tekniklerinin Başarım Değerlendirmesi**
SOLMAZ M. K., SARIGÖL M., KARACAN L.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Karabük, Turkey, 15 May 2022
- V. **Scene Construction from Depth Map Using Image-to-Image Translation Model**
Avşar H., SARIGÖL M., KARACAN L.
4. International Conference on Artificial Intelligence towards Industry 4.0, Hatay, Turkey, 11 - 12 November 2021
- VI. **Interpolation-based smart video stabilization**
Dervişođlu S., SARIGÖL M., KARACAN L.
4. International Conference on Artificial Intelligence towards Industry 4.0, Hatay, Turkey, 11 - 12 November 2021
- VII. **Learning-Based Image Rendering**
SOLMAZ M. K., SARIGÖL M., KARACAN L.
4. International Conference on Artificial Intelligence towards Industry 4.0, Hatay, Turkey, 11 - 12 November 2021
- VIII. **Classifying Stable and Unstable Videos with Deep Convolutional Networks**
SARIGÖL M., KARACAN L.
3. International Conference on Artificial Intelligence towards Industry 4.0, 12 - 13 November 2020
- IX. **Pattern transfer between images of different species of butterflies using CycleGan**
SARIGÖL M.
International Conference on Artificial Intelligence towards Industry 4.0, 14 - 16 November 2019
- X. **Image compression with deep autoencoders on bird images**
SARIGÖL M., AVCI M.
International Conference on Artificial Intelligence towards Industry 4.0, 15 - 17 November 2018
- XI. **Effect of pre-trained deep neural network usage on performance of image classification**
SARIGÖL M., AVCI M.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017
- XII. **Performance Analysis of Different Convolutional Neural Network Structures on Bird Classification**
SARIGÖL M., AVCI M.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017
- XIII. **Performance Comparison of Different Momentum Techniques on Deep Reinforcement Learning**
SARIGÖL M., AVCI M.
IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Gdynia, Poland, 3 - 05 July 2017, pp.302-306

Supported Projects

Ata B., Sarigül M., Karacan L., TUBITAK Project, Large Language Model-Enhanced Visual Simultaneous Localization and Mapping for Robot Task and Motion Planning, 2024 - 2027

Sarigül M., Karacan L., TUBITAK Project, Seri Çekim Görüntülerinin Görüntü İyileştirmesinde ve Restorasyonunda Difüzyon Olasılıksal Modellerin Kullanımı, 2024 - 2026

Sarigül M., Karacan L., TUBITAK Project, Self-Supervised Deep Learning Approach for Video Stabilization , 2021 - 2023

Scientific Research / Working Group Memberships

Cukurova AI, Cukurova University, Turkey, <https://cukurovaai.github.io/>, 2023 - Continues

Metrics

Publication: 30

Citation (WoS): 210

Citation (Scopus): 243

H-Index (WoS): 3

H-Index (Scopus): 4