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International Researcher IDs

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2023 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2020 - 2023

Undergraduate, Karabuk University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2015 - 2020

Dissertations

Postgraduate, Classification of skin lesion images using machine learning and deep learning techniques, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2023

Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Yazılım Mühendisliği, 2023 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Evaluating and enhancing the robustness of vision transformers against adversarial attacks in medical imaging**
Kanca E., Ayas S., Baykal Kablan E., Ekinci M.
MEDICAL AND BIOLOGICAL ENGINEERING AND COMPUTING, no.62, pp.1-18, 2024 (SCI-Expanded)

Articles Published in Other Journals

- Ensemble Methods-Based Melanoma Classification in Imbalanced Datasets**
Kanca E., Ayas S.
Karadeniz Fen Bilimleri Dergisi, vol.12, no.2, pp.1122-1137, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- Robust Vision Transformer Model Against Adversarial Attacks in Medical Image Classification**

Kanca E., Gülsoy T., Ayas S., Baykal Kablan E.

2024 47th International Conference on Telecommunications and Signal Processing (TSP), Praha, Czech Republic, 10 - 12 July 2024, pp.1-5

II. Performance Comparison of Vision Transformer-Based Models in Medical Image Classification

Kanca E., Ayas S., Baykal Kablan E., Ekinci M.

31. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İstanbul, Turkey, 5 - 08 July 2023, pp.1-4

III. Implementation of Fast Gradient Sign Adversarial Attack on Vision Transformer Model and Development of Defense Mechanism in Classification of Dermoscopy Images

Kanca E., Ayas S., Baykal Kablan E., Ekinci M.

31. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İstanbul, Turkey, 5 - 08 July 2023, pp.1-4

IV. Classification of Skin Lesions from Dermoscopic Images using CoAtNet

Kanca E., Ayas S.

10th International Conference on Advanced Technologies, Van, Turkey, 25 - 27 November 2022, pp.1-4

V. Learning Hand-Crafted Features for K-NN based Skin Disease Classification

KANCA E., AYAS S.

2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Ankara, Turkey, 9 - 11 June 2022, pp.1-4

VI. An Ensemble of Fully Convolutional Neural Networks for Automatic Skin Lesion Segmentation

Kanca E., AYAS S.

Medical Technologies Congress (TIPTEKNO), Antalya, Turkey, 31 October - 02 November 2022

Scientific Research / Working Group Memberships

Uygulamalı Yapay Zeka, Karadeniz Technical University, Turkey, <https://avesis.ktu.edu.tr/arastirma-grubu/aai>, 2023 - Continues

Scholarships

2250 - Lisansüstü Bursları Performans Programı, TÜBİTAK, 2024 - 2024