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Konya, Turkey



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INTRODUCTION

We had the great honor of 5th International Conference on Pioneer and Innovative Studies ICPIIS 2026. It was truly a great pleasure for us to greet a lot of participants from many different countries to attend ICPIIS 2026! We firmly believe that the conference will become an important international event in the field of cross-industry discussion about innovations in Academic Studies.

Three cooperating organizations supported the two-day conference. There were 183 papers accepted for presentation at ICPIIS 2026, contributed from different countries. We had plenary speeches and several well-known scientists and experts, to give invited talks at different sessions.

The purpose of ICPIIS 2026 was to provide a forum for the participants to report and review innovative ideas, with up-to-date progress and developments, and discuss novel approaches to the application in the field of their own research areas and discuss challenges of doing science.

We sincerely hope that the exchange of ideas on doing research, science and improving education will help the participants, and international cooperation sharing the common interest will be enhanced.

On behalf the Organization Committee of ICPIIS 2026, we would like to heartily thank our cooperating organizations for all they have done for the conference. We would also like to thank the authors for their contribution to the proceedings; the participants and friends of ICPIIS 2026, for their interest and efforts in helping us to make the conference possible; and the Editorial boards for their effective work and valuable advice, especially the ICPIIS 2026 secretariat and the ICPIIS 2026 staff, for their tireless efforts and outstanding services in preparing the conference and publishing the Proceedings.

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JUNE 08-09, 2026**

15.06.2026

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STROKE DIAGNOSIS IN BRAIN CT IMAGES: RELIABILITY ANALYSIS OF CNN AND VISION TRANSFORMER ARCHITECTURES WITH EXPLAINABLE ARTIFICIAL INTELLIGENCE

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Abstract – Accurate and consistent diagnosis brain CT scan images plays a crucial role for decision support systems. This study, three different deep learning schemes are compared for stroke diagnostic. This study utilized a dataset from the Teknofest 2021 competition containing 4427 stroke-free, 1130 ischemia and 1093 hemorrhage classes. To control dataset imbalance, the Categorical Focal Cross Entropy loss function was preferred in the training process. Data preprocessing step, black borders were removed, converted the images to 512x512 pixels. 5-fold cross-validation strategy was applied for it to be generalized of the models accuracy. Each model was trained with the same hyperparameter settings to create a fair comparison environment. Performance metrics evaluated Accuracy, Precision, Recall, AUC, ROC Curve and Macro F1. Model diagnoses analyzed compare heat maps generated with Grad-CAM, an Explainable Artificial Intelligence tool, to expert markings in the dataset. According to performance metrics, ViT model achieved 86.59% Macro F1 and 89.92% Accuracy, while EfficientNetV2 model also exhibited high performance with 86.42% Macro F1 and 90.23% Accuracy scores. ConvNeXt failed to generalize and classified all images as hemorrhage, resulting in the lowest performance. The most critical finding of the study has been revealed with Grad-CAM analysis. Although ViT achieved high scores on the metrics, an analysis of the heatmaps revealed that there were different focal points across the entire image. EfficientNetV2 showed a high degree of similarity to the expert marking and heatmaps generated. The results of the study have shown that reliability in disease diagnosis processes does not depend solely on numerical metrics. Models that appear numerically successful may focus on different features in the image for disease diagnosis. As a result, EfficientNetV2 has been identified as the most reliable and appropriate choice in terms of accuracy and consistency.

Keywords – deep learning; explainable artificial intelligence; stroke diagnosis; medical image analysis; open health data