



LAUREATE RESEARCH PAPER AWARD

This is to certify that the paper: **Performance Comparison of Convolutional Neural Networks for Handwritten Digit Recognition Using Various Activation Functions and Optimization Algorithm**

by **Abdul Razaque, Saule Amanzholova, Azhar Sagymbekova and Aizhan Zaurbek**

was recognized as an Outstanding Research Paper presented at the 8th International Conference Digital Technologies in Education, Science and Industry DTESI 2023

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