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| Journal | Journal of Innovative Image Processing (iroiip) |
|-----------------|---|
| Title | Performance of Face Recognition Machine Learning Algorithms in Attendance Recording System with Limited Training Data |
| Article Type | Research |
| Submission Type | new |
| Abstract | Face recognition for attendance recording reduces times and eliminates several problems with fake attendance. The effectiveness of the face recognition algorithm is crucial to the attendance system. There are many face-recognition algorithms that have been researched in the case of attendance recordings. And these different algorithms resulted in varying degrees of success in face detection within said attendance recording. Differences in lighting, camera, room size, and numbers of students create a challenging environment for face detection. But one problem that is rarely discussed in face recognition research with machine learning is the problem of limited training data. In attendance recording, scenarios, sometimes attaining large number of participant image data might not be feasible. This research compares the performance of three face-recognition machine learning algorithms (SVM, KNN), and Random Forest) with limited training data. It is then concluded that SVM with hyperparameter tuning resulted in the highest accuracy of 0.45. Possible causes and solutions for a better approach are then discussed and proposed. |

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Hi Erico Darmawan Handoyo,

Your article entitled "Performance of Face Recognition Machine Learning Algorithms in Attendance Recording System with Limited Training Data" has been received.

Your manuscript id is: iroiip_1753618545

Kindly use your manuscript id for reference in further communications.

Status: At editor's desk.

Good Day!



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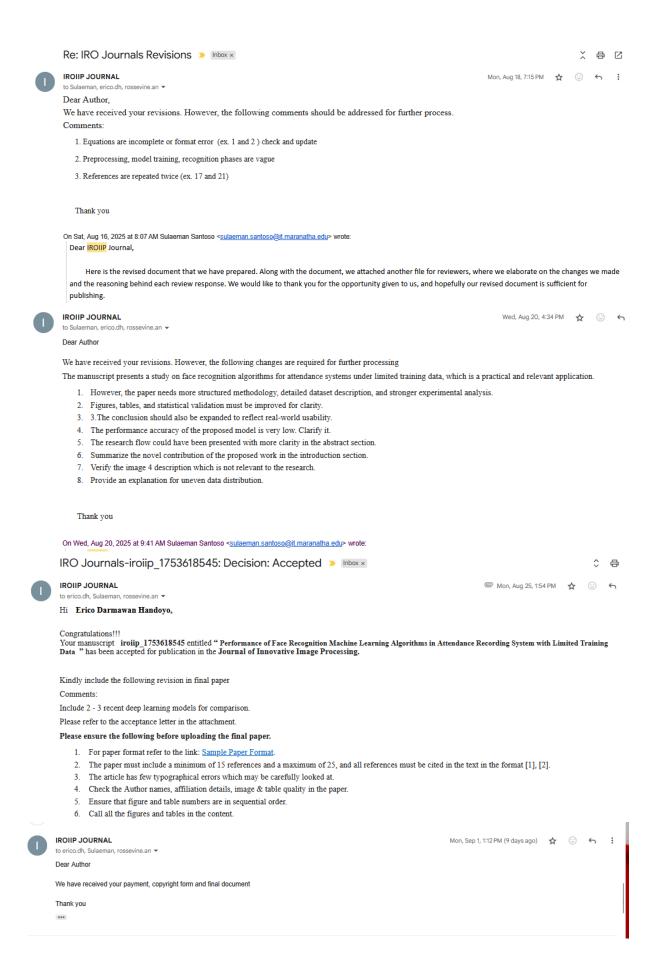
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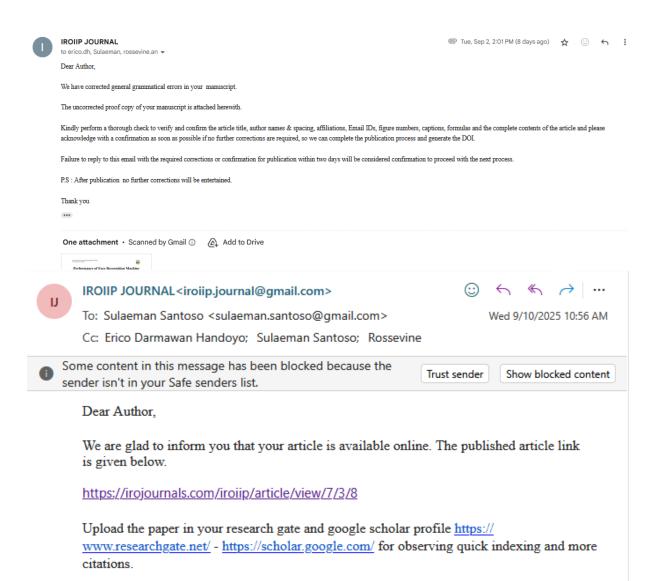
Please find the technical comments attached below.

All revised comments must be highlighted in yellow and the number of pages is limited to a maximum of 25.

Revise the article and resubmit within (22/08/2025) 15days from the receipt of this mail.







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