

## PAPER STATUS

**PUBLICATION STATUS:** IN REVIEW PROCESS

**TITLE OF THE PAPER:** AN APPROACH TO DEVELOP THE INFORMATION PROVIDING SYSTEM BY RECOGNIZING FACIAL EXPRESSIONS

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**NAME OF THE CONFERENCE:** INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTER SCIENCE, ELECTRICAL, ELECTRONICS, AND COMMUNICATION TECHNOLOGIES

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The following submission has been created.

Track Name: Track 1. Computer Science and Engineering

Paper ID: 633

Paper Title: An Approach to Develop the Information Providing System by Recognizing Facial Expressions

Abstract:

Facial expressions are very important in understanding one's state of mind. We aim to incorporate this notion in our learning assistant application in order to provide a rich user experience. The facial expression of the user is recognized with the help of a model trained on the FER-2013 dataset using a convolutional neural network. A query from the user is matched with an appropriate title from the list of titles released by Wikipedia using a matching algorithm based on the percentage of words that match in both the query and a title. The information under the title that achieves the maximum score is retrieved and provided for the user. Simultaneously, the facial expressions of the user are captured so as to analyze the level of understanding of the content for the user and display suitable responses. The percentage of correct predictions given by the proposed model on 7178 unseen images is 65.11%.

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