LITERATURE DOCUMENTS

TEAM NO   : 08
PROJECT NAME   : AUTOMATED FACE RECOGNITION ATTENDANCE SYSTEM USING DEEP LEARNING

Comparison of existing methods:

SL No	Author (s)	Method	Advantages	Disadvantages
1	HAO YANG AND XIAOFENG HAN	**1.** Geometric Feature Method **2.** Support Vector Machine (SVM) Method **3.** Neural Network Method	**1.** Enhanced Robustness **2.** Real-Time Processing **3.** Application Potential	**1.** Complexity of Neural Networks **2.** Limitations of Support Vector Machines **3.** Sensitivity to Changes
2	BUSRA KOCACINAR, BILAL TAS, FATMA PATLAR AKBULUT, CAGATAY CATAL AND DEEPTI MISHRA	Convolutional Neural Networks (CNN)	**1.** Development of a lightweight deep learning model for recognizing an individual's identity and detecting masked faces with various mask options. **2.** Proposal of a novel algorithm using only eye images to detect an individual's identity, addressing calculation time issues related to the size of the image dataset.	The authors did not explicitly mention any in the provided excerpts. However, it's important to note that the effectiveness of the proposed system may be influenced by factors such as lighting conditions, image quality, and variations in mask types and wearing styles. Additionally, the system's performance may be limited by the diversity and size of the training dataset. These potential limitations should be considered in the practical implementation of the system.
3	YANLI REN, ZHUHUAN SONG, SHIFENG SUN, JOSEPH K. LIU, AND GUORUI FENG	The authors mainly use a method of proposing a protocol and conducting the experiments to validate its effectiveness.	**1.** Efficient Computation **2.** Privacy Preservation **3.** Verification Capability	**1.** Security Risks **2.** Computational Overheads **3.** Limited Scope

REFERENCES:

[1] HAO YANG1 AND XIAOFENG HAN "Face Recognition Attendance System Based on Real-Time Video Processing" – IEEE 2020
[2] YANLI REN , ZHUHUAN SONG , SHIFENG SUN , JOSEPH K. LIU , AND GUORUI FENG "Outsourcing LDA-Based Face Recognition to an Untrusted Cloud" –IEEE 2023
[3] BUSRA KOCACINAR 1 , BILAL TAS1 , FATMA PATLAR AKBULUT 1 , CAGATAY CATAL 2 , AND DEEPTI MISHRA 3 "A Real-Time CNN-Based Lightweight Mobile Masked Face Recognition System" –IEEE 2022

SIGNATURE SUPERVISOR