



Pratya Nuankaewc~ <nuankaew.p@gmail.com>

8th International Conference on Smart Computing and Informatics : Submission (181) has been created.

1 message

Microsoft CMT <noreply@msr-cmt.org>
To: pratya.nu@up.ac.th

Fri, Jan 30, 2026 at 11:47 PM

Hello,

The following submission has been created.

Track Name: SCI2026

Paper ID: 181

Paper Title: Automatic Face Recognition with Face Masks Using Deep Neural Networks: A Project-Based Learning Approach in Engineering Education

Abstract:

This paper presents a design-based case study embedding a masked face recognition (MFR) project in an undergraduate Applied Deep Learning course using a structured PBL workflow. Guided by a four-phase framework, students built and deployed a real-time web prototype combining YOLOv8s face detection and FaceNet-based recognition. Using a course dataset from 37 students (2,220 balanced masked/unmasked images), we fine-tuned pretrained models via transfer learning. The system achieved 97.30% overall accuracy (94.59% unmasked; 83.78% masked). Performance was stable under typical indoor lighting and practical distances. Most errors came from heavy occlusion, blur, and extreme pose. Learning outcomes in an undergraduate Computer Science course were high, led by Teamwork (4.33±0.80), followed by Tools and Project skills. These results demonstrate both a practical solution for masked face recognition and the instructional effectiveness of PBL in developing applied deep-learning skills.

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Authors:

- wongpanya.nu@up.ac.th
- jindaporn.in@up.ac.th
- kuljira.nu@up.ac.th
- kaewpanya.nu@up.ac.th
- thapanapong.sa@up.ac.th
- pratya.nu@up.ac.th (Primary)

Secondary Subject Areas: Not Entered

Submission Files:

[SCI_2026_04_PID_xxx@sciconf.co](#) (009) - Submission File [2029-01-29] - no author.pdf (456 Kb, Fri, 30 Jan 2026 16:47:00 GMT)

Submission Questions Response: Not Entered

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One [Microsoft Way](#)
[Redmond, WA 98052](#)