

Title: Application of Computer Vision and Mobile Systems in Education: A Systematic Review

Author Names: Rubaiya Tasnim Sholi, Md Fouad Hossain Sarker, Md. Salman Sohel, Md Kabirul Islam, Maruf Ahmed Tamal, Touhid Bhuiyan, S.M. Khasrul Alam Shakil, Md. Foysal Ahmed

Abstract : The computer vision industry has experienced a significant surge in growth, resulting in numerous promising breakthroughs in computer intelligence. The present review paper outlines the advantages and potential future implications of utilizing this technology in education. A total of 84 research publications have been thoroughly scrutinized and analyzed. The study revealed that computer vision technology integrated with a mobile application is exceptionally useful in monitoring students' perceptions and mitigating academic dishonesty. Additionally, it facilitates the digitization of handwritten scripts for plagiarism detection and automates attendance tracking to optimize valuable classroom time. Furthermore, several potential applications of computer vision technology for educational institutions have been proposed to enhance students' learning processes in various faculties, such as engineering, medical science, and others. Moreover, the technology can also aid in creating a safer campus environment by automatically detecting abnormal activities such as ragging, bullying, and harassment.

Keywords : computer vision (CV), mobile system, computer vision and mobile application, education, systematic review

DOI: <https://doi.org/10.3991/ijim.v18i01.46483>

<https://online-journals.org/index.php/i-jim/article/view/46483>