Study on Computer Vision Technology for Industry 4.0

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Computer vision (CV) technology is a subset of artificial intelligence (AI) which takes in information from digital images and then takes decisions based on that information for further move. CV can relieve from biggest challenges facing by industries in their warehouse. CV can work on many aspects for appropriate storage of raw materials to stock managements for the customers from the beginning of the production till manufacturing the goods even in fluctuation of situations. The repetitive work which earlier done by skilled workers in the workplace can be carried out by CV technology as many of skilled workers are on the verge of their superannuation in coming decades. Moreover, using CV technology efficiency and accuracy can be improved up to large extent. The future of the Industry 4.0 is very clear about its high automation, enhanced production timeline, manufacturing accuracy etc. In this regard CV technology plays vital role to achieve the goal. Present discussion reveals about advantages of CV technology in industry to meet the requirements of the customer. One can easily have real time inventory management, automated quality control (AQC) for the proper utilization of work time of an employee in the industry for efficient and accurate production. This is an area where one can say CV excels and the industry too. It is reported that there is 10-12% improvement in the production of the industry after implementation of the CV technology.

Keywords: AI, AQC, CV Technology, Digital Image