## **Counting People Utilizing Space-Time Imagery**

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**Abstract :** An automated method for counting passerby has been proposed using virtual-vertical measurement lines. Spacetime image is representing the human regions which are treated using the segmentation process. Different color space has been used to perform the template matching. A proper template matching has been achieved to determine direction and speed of passing people. Distinguish one or two passersby has been investigated using a correlation between passerby speed and the human-pixel area. Finally, the effectiveness of the presented method has been experimentally verified.

Keywords : counting people, measurement line, space-time image, segmentation, template matching

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