

Abstract: An Intelligent Surveillance System using Dual Camera

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Abstract

In the case of the legacy CCTV surveillance system, it is difficult to accurately recognize the tracking object. In the case of PTZ surveillance system which recognizes objects accurately, most PTZ cameras can be used to eliminate the blind spot, however as the operational amount increases, a delay time in the camera's movement may occur. The proposed system in this paper uses the Wide-Area Surveillance Camera and PTZ camera to eliminate the blind spot in the surveillance area which exists in the legacy surveillance system. In order for the wide area surveillance camera to recognize objects, a Particle filter was utilized. Furthermore, a Motion Template was used to predict the movement direction of the object and by controlling the PTZ camera, the movement delay time in the camera was reduced.

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