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Abstract
This paper presents an intelligent surveillance system that is able to perform auto-tracking and auto-zooming simultaneously for the suspect targets. This surveillance system uses image information from static camera to guide PTZ camera for enhancing its tracking stability. The relationship of visual servoing between the static camera (image data) and PTZ camera (Pan/Tilt/Zoom parameters) is constructed by the co-operative learning neural network, in which the supervised and unsupervised learning neural networks are coordinated together. Experiments show that, after a sufficient number of times training, the system can perform well in auto-tracking and auto-zooming.
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