Vision-based behavior analysis for moving humans

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ABSTRACT

"The wisdom living environment" gradually turned the future which may anticipate. And based on the visual technology wisdom environment, can provide more and more instinctive and confidential of the monitoring mechanism. The research is take the property safekeeping of security as a goal, besides to invades the personnel to carry on detects as well as traces, emphatically of behavioral analysis in the suspicious personnel, before expected occurs in the harm behavior, guards against to not however. The research develops the system mainly will retrieve the bounding box of human body which will obtain, will calculate it's attribute with long, width size and beam-to-depth ratio. According to the parameters and the speed changes quantity to analyze the movement which the human body will produce. Moreover, the analysis grid reference change, searches observes the human body with to preserve thing each other the connection, then the determination suspicious personnel's behavior, decided whether sends out the message. The research may construct in the construction and the maintenance in the property security, using the fair price of retrievable equipment, and to develop the wisdom supervisory system, which is the suspicious personnel's behavior systematized the classification, the analysis and the unusual condition determination.

Keywords : invade detection ; moving objects ; motion determination ; behavior analysis


