Research Hot Line

UPDATE FROM THE CUTTING EDGE

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The abstracts of the recent research information appeared on the Vol.5 No.10–No.12 of "AIST TODAY" are introduced and classified by research area. For inquiry about the full article, please contact the author directly

Information Technology

A New Scheme of Adaptively Trainable Motion Image Recognition

Achieved World's Best Performance for Human and Motion Recognition

A new scheme has been developed for automatic recognition of persons and movements out of a monitored video image, a key step of automatic video-surveillance such as an anti-crime camera. The method is an extension of adaptive learning recognition scheme based on the Higher-order Local Auto-Correlation (HLAC) feature extraction developed for two-dimensional static images. To cover the feature extraction of "target's movements" in motion images, HLAC was extended to Cubic HLAC (CHLAC). The technology is characterized by enhanced versatility, high speed and high accuracy. *http://www.aist.go.jp/aist_e/latest_research/2005/20050621/20050621.html*

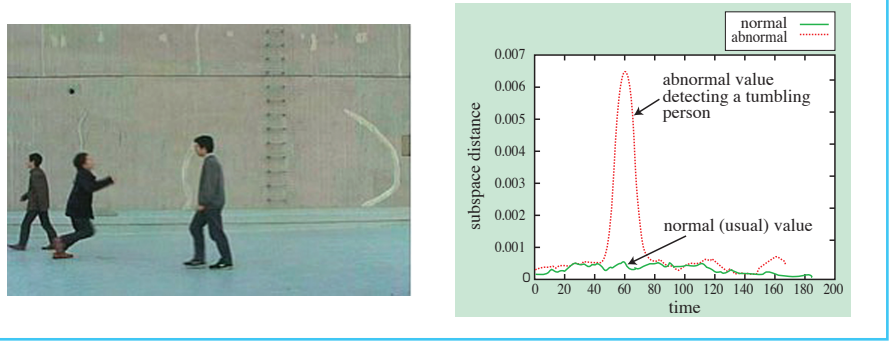

Figure: Examples of human abnormal movement detection (Normal: walking through, Abnormal: tumbling over).

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