



The Chinese University of Hong Kong
Non-confidential Abstract of Technology Disclosure

Title:

Audio-Assisted Video Based Face Recognition

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Inventor(s):

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Patent Status:

- ◆ Chinese Patent Pending
- ◆ Hong Kong Patent Pending

Non-confidential abstract:

In this work, we develop a new audio-assisted video-to-video face recognition algorithm. The major advantage of the video based method is that more information is available in a video sequence than in a single image. In order to take full advantage of the large amount of information in the video sequence and at the same time overcome the processing speed and data size problems we develop several new techniques including temporal and spatial frame synchronization, multi-level subspace analysis, and multi-classifier integration for video cube processing. The method preserves all the spatial-temporal information contained in a video sequence. Near perfect classification results are obtained on the XM2VTS face video database.

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