

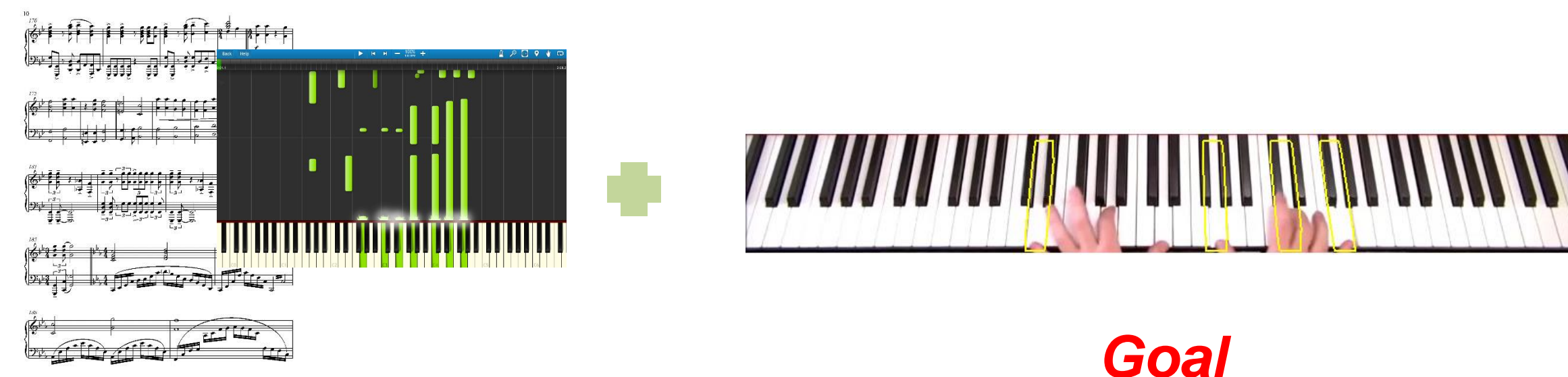
# Detection of Piano Keys Pressed in Video

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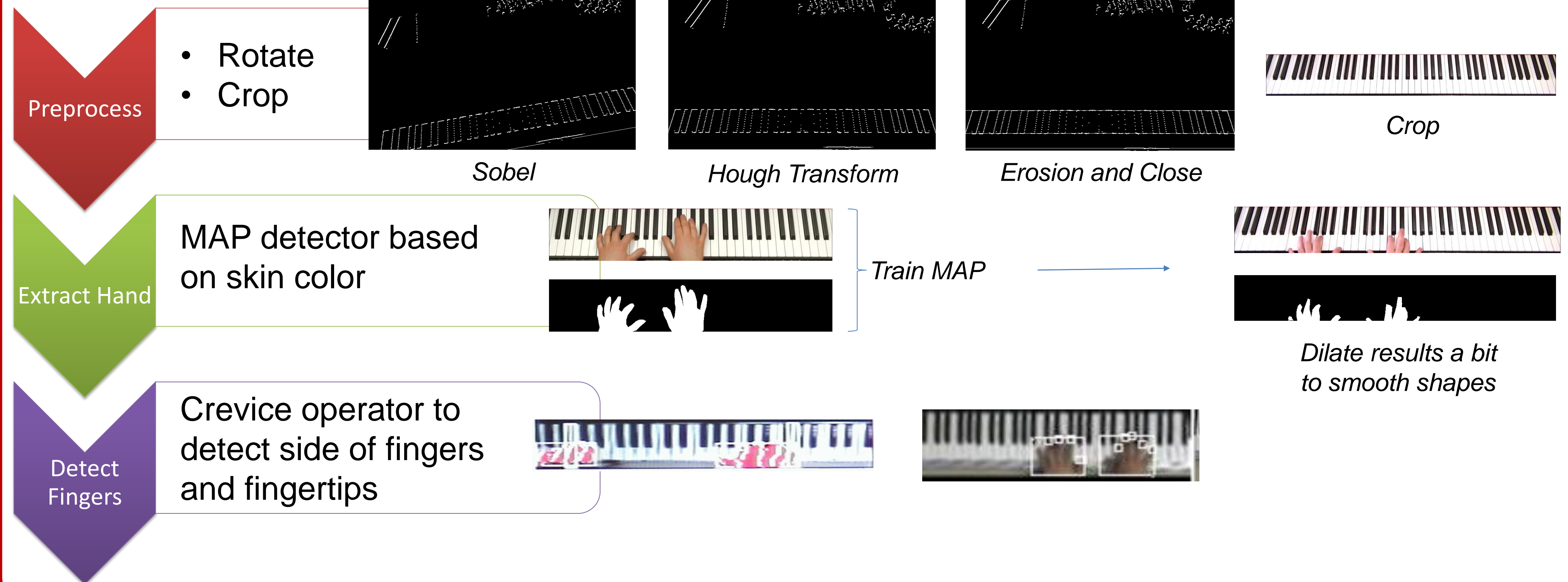
## Motivation

Typical piano video tutorials online mostly include a sheet and an audio file such as MIDI. Some software such as Synthesia also visualizes the sequences and duration of keys pressed in the piece. But unless we carefully watch an example of how the piece is played, we cannot see the fingers movement pressing the keys. Our goal is to automate keys detection from video in hope that it will be useful for online learners.

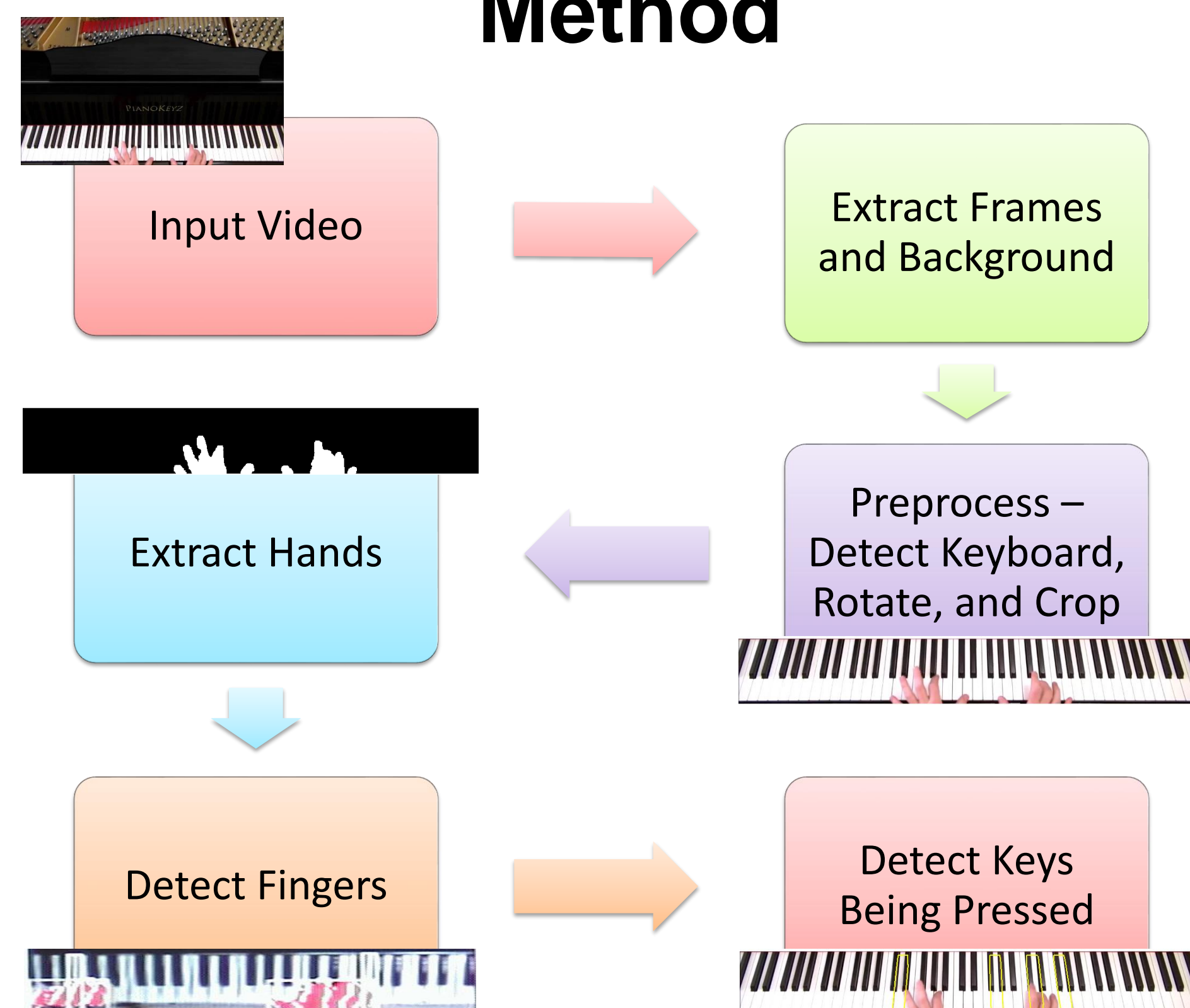


Today

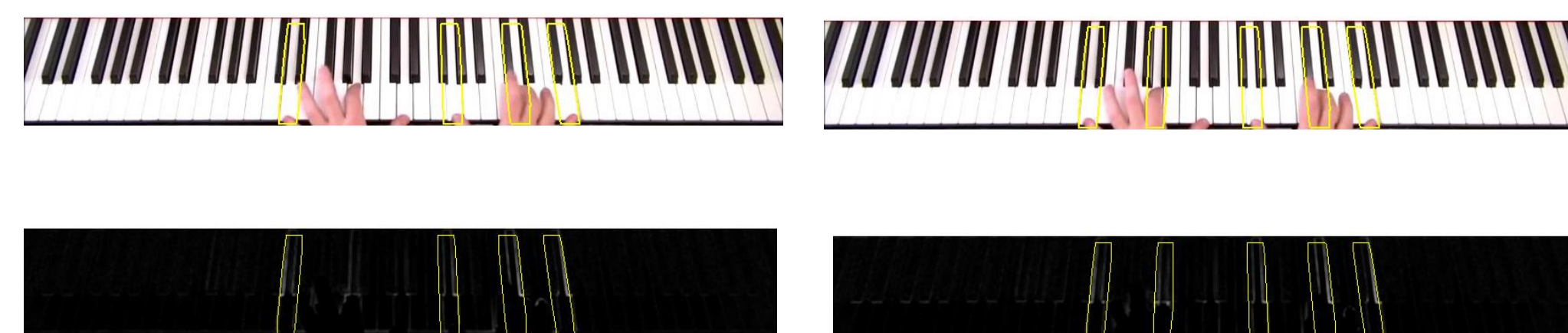
## Image Processing Techniques



## Method



## Experimental Results



## References

- Gorodnichy O., D., *Detection and tracking of pianist hands and fingers*. CRV '06 3rd Canadian Conference on Computer and Robot Vision, 2006.
- Takegawa, Y., *Design and Implementation of a Real-Time Fingering Detection System for Piano Performance*. International Computer Music Conference Proceedings, 2006.

## Image Processing (Continued)

