

A Hand Pose Tracking Benchmark from Stereo Matching

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ABSTRACT

In this paper, we established a long-term 3D hand pose tracking benchmark. It contains 18,000 stereo image pairs as well as the ground-truth 3D positions of palm and finger joints from different scenarios. Meanwhile, to accurately segment hand from stereo images, we propose a novel stereo-based hand segmentation and depth estimation algorithm specially tailored for hand tracking here. The experiments indicate the effectiveness of the proposed algorithm by demonstrating that its tracking performance is comparable to the use of an active depth sensor under various challenging scenarios.

This paper will be presented at the 2017 IEEE International Conference on Image Processing, 17-20 September 2017, Beijing, China.

Supervisor: Dr LAU Rynson W H

Research Interests: Low Level Vision

All are welcome!



In case of questions, please contact Dr LAU Rynson W H at Tel: 3442 7525, E-mail: rynson.lau@cityu.edu.hk, or visit the CS Departmental Seminar Web at <http://www.cs.cityu.edu.hk/news/seminars/seminars.html>.

