

Call for Papers

EHuM₂: Evaluation of Articulated Human Motion and Pose Estimation

Workshop at CVPR 2007

<http://www.cs.brown.edu/people/ls/ehum2/>



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M.-H. Yang (Honda Research)

Invited Speakers:

D. Fleet (U of Toronto)
J. Hodgins (CMU) [*tentative*]

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Overview: There has been a large body of work developed in the last 10 years on the human pose estimation and tracking from video. Progress however has been limited because of the lack of common datasets and error metrics for quantitative comparison. The goal of this workshop is to (1) establish the current state of the art in the human pose estimation and tracking from single and multiple camera views, (2) discuss future directions in the field, and (3) introduce a benchmark database and error metrics for comparing current and future methods. To this end a new (HumanEva) dataset has been introduced.

Dataset: The HumanEva dataset contains multiple calibrated video sequences (grayscale and color) that are synchronized with 3D body poses obtained from a motion capture system. The database contains multiple subjects performing a variety of common actions (e.g. walking, jogging, gesturing, etc.). The error metrics for computing error in 2D and 3D pose will be provided to participants. The dataset contains training, validation and testing (with withheld ground truth) sets.

Scope: The workshop program will consist of papers, invited talks and a discussion panel. The list of possible topics includes (but is not limited to) the following:

- Tracking and pose estimation (in 2D and 3D);
- Priors for human motion and dynamics;
- Appearance models;
- Discriminative and generative approaches for articulated pose recovery;
- Quantitative metrics for evaluation of pose estimation and tracking.

Submissions: All submissions will be required to use the dataset provided and the on-line evaluation system for evaluation of results. Due to the retrospective and prospective nature of the workshop, we will encourage submissions of both original unpublished works as well as surveys where prior approaches are evaluated using the data and the metrics provided. Submissions should contain an extensive experimental section and enough algorithmic details to allow reproducibility of results. We invite submissions of full length 8-page papers in the 2-column CVPR style. We encourage authors of papers at the main CVPR conference to present an evaluation of their method at the workshop. For CVPR-accepted papers, authors should submit (1) a copy of the CVPR paper; (2) a brief writeup describing experimental analysis with the EHuM dataset.

Important dates:

Call for participation:	January 30, 2007
Submission deadline:	April 20, 2007
Notification to authors:	May 18, 2007
Workshop in Minneapolis, Minnesota:	June 22, 2007
Submission of revised IJCV manuscripts:	August, 2007

Proceedings: In lieu of a proceedings, authors will be invited to submit extended versions of their papers to a special issue of **International Journal of Computer Vision (IJCV)** on human pose estimation and tracking with a deadline in August 2007.