Call for Papers

EHuM: Evaluation of Articulated Human Motion and Pose Estimation

Workshop at NIPS 2006 (Vancouver, BC)

Overview: There has been a large body of work developed in the last 10 years on the human pose estimation and tracking from video. Many of these methods are based on well founded statistical models and machine learning techniques. 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) database for evaluation will be 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, posters, 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: We invite submissions of extended abstracts (4-8 pages including bibliography) for poster and oral presentations. All papers should be in PDF format (see NIPS 2006 authors instructions for format details). All submissions are required to use the database provided for evaluation of results. Submissions should not be anonymous and should contain names and affiliation of the authors. Authors of the accepted submissions must attend the workshop to present the work.

Due to the retrospective and prospective nature of the workshop, we encourage submission of both original unpublished works as well as surveys where prior approaches are evaluated using the data and metrics provided.

Important dates:
- Call for participation: September 38, 2006
- Submission deadline: November 8, 2006
- Notification to authors: November 17, 2006
- Final draft due: November 30, 2006
- Workshop in Whistler, BC: December 8-9, 2006

Proceedings: In lieu of a proceedings, authors will be encouraged to submit full papers to a special issue of the International Journal of Computer Vision (IJCV) devoted to the topics of the workshop.