

Call for papers

2nd International Workshop on Human Activity Understanding from 3D Data (HAU3D'12)

(in conjunction with CVPR, Providence, Rhode Island, June 16-21, 2012)

<http://ictr.uow.edu.au/hau3d12/>

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(more to be confirmed)

Recent advances in 3D depth cameras, 3D information recovery from 2D images/videos, and the availability of portable human motion capture devices have been nurturing a potential breakthrough solution to the problem of human activity understanding by using 3D data. This workshop is to bring together leading researchers in the related fields to advocate and promote a new research direction of human activity recognition using 3D data. The workshop aims to provide an interactive platform for researchers to disseminate their most recent research results, discuss rigorously and systematically potential solutions and challenges towards a robust human activity understanding using 3D data, and promote new collaborations among researchers.

The inaugural workshop (HAU3D'11) was successfully held in conjunction with CVPR 2011 with over 120 delegates attending the workshop.

This workshop calls for original and high-quality paper submissions on, but not limited to, the following key topics:

- Acquisition of 3D data, including
 - multicamera systems (with markers or marker-less)
 - mocap devices and systems
 - depth cameras
 - active and passive 3D body scanning systems
 - 3D from 2D images/videos (including tracking & pose estimation)
 - benchmark datasets
- Representation and feature descriptors, including
 - representation of 3D human body and articulation
 - representation of human body language
 - hybrid 3D and 2D representations
 - 3D feature descriptors
 - detection and tracking of 3D interest points
- Learning and recognition, including
 - modelling of human motion and activity
 - cross-dataset learning and recognition
 - incremental and online learning
 - use of contextual constraints
 - recognition of gestures, actions and group activities
- Applications, including
 - sports analysis
 - synthesis and animation of 3D human motions
 - Human-Computer-Interface (HCI)
 - humanoid robotics
 - surveillance & monitoring
 - medical diagnosis, assessment and treatment (e.g. musculoskeletal disorders)

All accepted papers will be included in the CVPR 2012 proceedings.

Keynote Speakers:

- There will be 2-3 keynote speeches, details will be announced soon

Important Dates:

Submission of full papers:	Sunday, March 18, 2012
Notification of acceptance:	Wednesday, April 18, 2012
Camera ready copy:	Wednesday, April 25, 2012
Workshop date:	To be announced soon