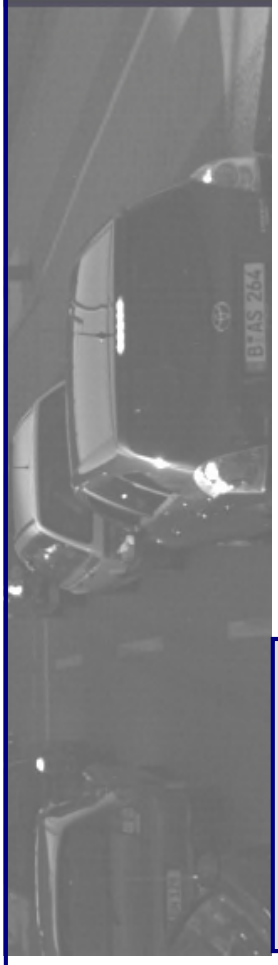

3D Object Recognition and Tracking

Call for Participation

planned as a Special Session of the 14th Application-Related Workshop on Measuring, Modelling, Processing and Analysis of 3D-Data

3D-NordOst 2011

in Berlin - Adlershof
December 08th and 09th 2011

Session Organizer:
Humboldt-Universität zu Berlin, Institut für Informatik, Computer Vision
ISPRS, Commission V, Working-Group 5 / Development in Image Sensor Technology
Workshop Organizer:
GFaI Berlin, Gesellschaft zur Förderung angewandter Informatik e.V.

Surveillance tasks are now mostly solved with single cameras and 2D image processing. The conference aims to show what progress through the use of stereo systems or synchronized cameras may be achieved, but also the challenges that need to be solved.

Paper submissions should be related to the following areas:

Sensors & Sensor fusion

- Prerequisites, synchronisation, co-registration
- System orientation & co-alignment

Calibration

- Imaging beyond pinhole camera (e.g. fisheye lenses)
- Relative and absolute orientation
- Geometric calibration algorithms and procedures

Applications and Validation

- Evaluation criteria
- Object detection, trajectories, events
- Atypical event detection
- Situation assessment

Stereo and wide baseline stereo

- Feature detection
- Matching
- Object detection
- 3D reconstruction

SUBMISSION

Prospective authors are invited to submit papers in any of the topics listed above.

Interested authors are asked to submit abridgements (max. 2 pages) per e-mail to pochanke@gfai.de until June 6th 2011 (please mark "3D-NordOst" in the subject line).

After confirmation (until June 27th 2011) print-ready contributions (max. 10 pages A5 including coloured, b/w images) will be expected at least until November 1st 2011.

Accepted contributions will be published in a ISBN referenced conference transcript which will be available to workshop participants.

For Further Information:
Email: reulke@informatik.hu-berlin.de
URL: http://www2.informatik.hu-berlin.de/cv/isprs/index.html