Mobile Vision (MobiVis):Vision-based Applications and HCI

Workshop at MobileHCI 2012, San Francisco, USA, September 21, 2012

http://mobivis.labs-exit.de

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Important Dates:
Paper submission: May 25th, 2012
Author notification: July 1, 2012
Camera-ready version: August 1, 2012
Workshop: September 21, 2012

Call for Participation

The capabilities of smartphones and other mobile/hand-held devices are increasingly being exploited to bring vision-based mobile applications to the user. Applications such as visual search and image retrieval, face recognition, augmented reality, marker-based tagging, gesture recognition, and video data streaming are altering the way we interact with the world around us in a mobile context.

This full-day workshop aims to address the fundamental vision-based technologies that enable new interaction modalities and metaphors. We also would like to encourage the exploration of new radical or experimental interactions as well as new design concepts and application scenarios. Our aim is to promote a cross-disciplinary discussion between computer vision researchers, HCI researchers, interaction designers, and practitioners of either field. The aim is to highlight and elaborate the potential of computer vision as an enabling technology for new forms of mobile interaction, applications and implications for user experience and design.

Relevant topics include but are not limited to:

- Real-time tracking, pose estimation and SLAM on mobile devices.
- Local image features for fast image recognition, matching, etc.
- Mobile Augmented Reality linking the physical and the virtual world
- Application scenarios for camera-based applications, e.g., pedestrian navigation, entertainment, learning and education, social networks, journalism, field work
- Toolkits and methods for prototyping vision-based mobile applications
- Models and frameworks for evaluating vision-based mobile interaction
- Artistic and creative approaches to designing vision-based mobile applications
- Computational photography on mobile devices
- Privacy aspects of camera-based mobile applications

Submission details

Paper submissions should have a length of 4 pages and can be novel research findings, position papers, or case studies, addressing one or more of the topics mentioned above. Papers should be submitted via EasyChair (https://www.easychair.org/conferences/?conf=mobivis2012). Each paper submission will be reviewed by at least 2 members of the Program Committee. Participants will be selected on the basis of their submissions. Papers should be formatted according to the standard HCI Archive format: www.mobilehci2011.org/sites/default/files/MobileHCI2011archivalformat_final_acmcopyright.doc (the copyright notice should be removed). At least one author of accepted papers needs to register for the workshop and for the conference itself. We will make accepted contributions available on the workshop home page.