



INO
NATIONAL INSTITUTE
OF OPTICS



UNIVERSITÀ
di CATANIA



ACVR
2014

Second International Workshop on Assistive Computer Vision and Robotics

In Conjunction with



Assistive technologies provide a set of advanced tools that can improve the quality of life not only for disabled, patients and elderly but also for healthy people struggling with everyday actions. After a period of slow but steady scientific progress, this scientific area seems to be mature for new research and application breakthroughs. The rapid progress in the development of integrated micro-mechatronic and computer vision tools has boosted this process.

In addition, the interest in this research field has further recently increased due to the affordable fallouts of the technologies and methodologies involved in both traditional challenging related problems (such as monitoring of car drivers, behaviors analysis in surveillance contexts, ...) and pioneering topics (such as customer behavior analysis, innovative sales strategies,...).

However, many problems remain open especially as regards to environment perception and interaction of these technological tools with people.

The goal of the workshop is then to give an overview of the state of the art of perception and interaction methodologies involved in this area with special attention to aspects related to computer vision and robotics.

In particular, the International Workshop on Computer Vision and Robotics subsidiaries (ACVR) aims to bring together researchers working on problems of robotics and vision related to developing assistive technologies.

Research papers are solicited in, but not limited to, the following areas topics:

- Augmented and Alternative Communication
- Human - Robot Interaction
- Mobility Aids
- Rehabilitation Aids
- Home Healthcare
- Technology for Cognition
- Automatic Emotional Hearing and Understanding
- Activity Monitoring Systems
- Manipulation Aids
- Scene Understanding
- Life-logging
- Visual Attention and Visual Saliency
- Smart Environments
- Safety and Security
- Quality of Life Technologies
- Navigation Systems
- Sensory Substitution
- Mobile and Wearable Systems
- Applications for the Visually Impaired
- Applications for the Ageing Society
- Datasets and Evaluation Procedures
- Personalized Monitoring
- Video Summarization
- Egocentric and First-Person Vision

Important Dates

Full Paper Submission: **June 29th, 2014**

Notification of Acceptance: **July 13th, 2014**

Camera-Ready paper due: **July 23th, 2014**

Workshop: **September 12th, 2014**

Venue

Workshop will take place in Zürich at the [Swiss Federal Institute of Technology](http://www.ethz.ch) main building.

Contacts

ACVR2014@gmail.com

Workshop Chairs:

Giovanni Maria Farinella (University of Catania, IT)

Marco Leo (CNR-Institute of Optics, IT)

Gerard G. Medioni (University of Southern California, US)

Mohan Trivedi (University of California San Diego, US)

Technical Program Committee

Alessandro Capra (STMicroelectronics, IT)	Jamie Ward (University of Sussex, UK)
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Donald Chiarulli (University of Pittsburgh, US)	Roberto Cipolla (University of Cambridge, UK)
Donato Di Paola (Institute of Intelligent Systems, IT)	Ruggero Micheletto (Yokohama City University, JP)
Eli Peli (Harvard Medical School, US)	Salvatore Anzalone (ISIR, FR)
Francesca Cordella (University of Naples, IT)	Sebastiano Battiato (University of Catania, IT)
Giovanni Indiveri (University of Salento, IT)	Serge J. Belongie (University of California, US)
Giuseppe Vizzari (University of Milano-Bicocca, IT)	Silvio Savarese (University of Michigan, US)
Henry Kautz (University of Rochester, US)	Takeo Kanade (Carnegie Mellon University, US)
James Coughlan (Smith-Kettlewell Institute, US)	Zhigang Zhu (City College of New York, US)

Invited speakers:

Dr. Yonatan Wexler

(Senior VP R&D OrCam)

will give a talk about

"Computer Vision for the Visually Impaired: Challenges and Lessons Learned from the OrCam Project"

Prof. Roberto Manduchi

(University of California - Santa Cruz)

will give a talk about

"Maximizing Abilities through Technology, Education, and Research"

Submission and Revision

Papers can be submitted through **CMT Website** <https://cmt.research.microsoft.com/ACVR2014/>
The format for paper submission is the same as the ECCV main conference.

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Please refer to the following files for detailed formatting instructions.

[eccv2014kit](#) (ZIP file format)
[eccv2014kit.tar](#) (TAR GZ file format)
[eccv2014submission](#) (example PDF)

A complete paper should be submitted using the above templates, which are blind-submission review-formatted templates.

Additional information are available on the ECCV 2014 website:

<http://eccv2014.org/author-instructions/>.

Each submission will be reviewed by at least three reviewers for originality, significance, clarity, soundness, relevance and technical contents.

Proceeding and Journal Special Issue:

Accepted papers will be published by Springer in the (post-conference) proceedings of the workshops.

Papers will be also put on the conference USB stick.

The authors of the accepted papers could be invited to submit an extended version (at least 40+% different than the workshop versions) of their papers to a Journal Special Issue (with open call and peer review). More information will be soon available.

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