Orazio Gallo

Personal Information	Place and year of birth:	Milan (Italy), 1978
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Research Interests

Computer Vision and Computational Photography.

Skills

Excellent analytic and creative problem-solving skills. Strong written and oral communication.

Education

***2006 to present*: Ph.D. student in Computer Engineering at the University of California, Santa Cruz.** I am working under the supervision of Prof. Roberto Manduchi. My research is focused on the development of computer vision and machine learning algorithms for mobile applications on cell phones.

***2004*: Laurea degree (equivalent to a MS) in Biomedical Engineering** with emphasis on signal and image processing, Politecnico di Milano, Italy.

Laurea Graduation Thesis

Prediction of the Regions-Of-Interest of images: algorithms combinations evaluated with scanpath acquisitions. My thesis research was carried out while visiting the Telerobotics and Neurology Laboratory of Prof. Lawrence W. Stark at UC Berkeley, under the supervision of Prof. Stark and Dr. Claudio M. Privitera.

Awards

***2006*: Chancellor's Fellowship** for outstanding incoming graduate students. I was one of the only three students selected for this fellowship out of almost one hundred eligible students.

Invited Talks

***2009*, Smith-Kettlewell Eye Research Institute**: Capturing the dynamic range of a high contrast scene in the presence of movement.

Professional Experience

***Summer 2008*: Intern at Nokia Research Center at Palo Alto.** I worked on High Dynamic Range (HDR) photography. I developed an algorithm to create a ghost-free HDR image from exposure stacks of non-static scenes.

***Summer 2007*: Intern at Canesta Inc.** I worked on different computer vision projects, with a focus on robust fitting of range data.

***2004 to 2006*: Research assistant at the "Smith-Kettlewell Eye Research Institute" in Dr. Joel M. Miller's lab.** I worked on the development of a new imaging technique, the Gold Bead Tissue Markers project. I was in charge of the design and implementation of image processing, matching, and 3-D reconstruction algorithms.

International Conferences and Publications

Gallo, O. and Manduchi, R., *Reading Challenging Barcodes with Cameras*, Workshop on Applications of Computer Vision (WACV), 2009.

Gallo, O., Gelfand, N., Chen, W., Tico, M., and Pulli, K., *Artifact-free High Dynamic Range Photography*, International Conference of Computational Photography (ICCP),

2009.

Gallo, O., Arteaga, S. M., and Davis, J. E., *A camera-based pointing interface for mobile devices*, International Conference of Image Processing (ICIP), 2008.

Gallo, O., Manduchi, R., Rafii, A., *Robust curb and ramp detection for safe parking using the Canesta TOF camera*, Computer Vision and Pattern Recognition (CVPR), 2008.

Miller, J. M., Rossi, E. A., Wiesmair, M., Alexander, D. E., and Gallo, O., *Stability of gold bead tissue markers.* Journal of Vision, 2006.

Ai, L., Gallo, O., Alexander, D. E., Miller, J. M., *3-D Video Oculography in Monkey*, Association for Research in Vision and Ophthalmology (ARVO) 2006.

Privitera, C. M., Gallo, O., Grimoldi, G., Fujita, T., and Stark, L. W. *Combining conspicuity maps for hROIs prediction*, Proc. Workshop on Attention and Performance in Computational Vision Euopean Conference in Computer Vision (ECCV) 2004.

Programming Skills	MatLab C++, Symbian C++, Python
Relevant Classes Taken at UC, Santa Cruz	Computer Vision, Machine Learning, Bayesian Statistics, Computational Photography and Vision on Mobile Devices, Data Compression, Multimedia Systems, Analysis of Algorithms, Computer Architecture.
References	Available upon request.

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