

Preface

It is our pleasure to present the proceedings of the Symposium on Applied Perception (ACM SAP) held at Trinity College in Dublin, Ireland, August 22-23, 2013. ACM SAP, formerly known as APGV, aims to advance and promote research that crosses the boundaries between perception and disciplines such as graphics, visualization, vision, haptics and acoustics. Our tenth annual event includes exciting new research from all of these disciplines. We decided to hold the ACM SAP 2013 conference immediately prior to the 36th annual European Conference on Visual Perception (ECVP) in Bremen, Germany. By doing so, we hope to further promote communication between the core perception and computer graphics communities, and also bring back the symposium in its new form to Europe.

The changing of the name to SAP was intended to broaden the scope of the conference and to encourage representation from all aspects of applied perception. We believe that this goal is already being met. We were delighted to see a number of submissions that included auditory, haptic, and vestibular perception. We had 54 papers submitted for the SAP conference and 22 of those were accepted through reviews from at least three members of the International Program Committee. Cathy Ennis also served as Poster's Chair and selected a number of poster submissions to be included in the meeting both as posters and flash reports.

Five of the best submitted articles will be included in the special issue of the ACM Transactions on Perception (TAP). These five papers received the highest rankings from the program committee as long papers and underwent a second review cycle in order to be included in the special issue. These papers will appear in the ACM Digital Library as TAP papers at the same time as the symposium takes place. To avoid double publication, they will not appear in the SAP proceedings.

We would like to thank our sponsors: Disney Research, Acuity, Science Gallery and Fáilte Ireland for their gracious support. We also thank Stephen Spencer, Chair of the ACM SIGGRAPH Publications Committee, for his hard work in bringing together these proceedings, as well as the TAP editors, Carol O'Sullivan and Roland Fleming, for their efficiency and helpfulness in ensuring that the selected papers for the special issue were processed on time.

Even more thanks should go to Ludovic Hoyet and Betsy Williams, this year's Conference Chairs, for organizing the event and keeping things moving smoothly. Thanks also to Trinity College for hosting the symposium and our keynote speakers Jim Ferwerda and Henrik Ehrsson. Finally, we would like to thank the SAP 2013 authors and the committee members for their interest and patience, as well as the SAP 2012 Program Chairs for answering all of our questions so quickly. We were honored to be Program Chairs of SAP 2013, and hope that you will enjoy this year's program.

SAP 2013 Program Chairs

Joe Geigel, Rochester Institute of Technology

Jeanine Stefanucci, University of Utah



ACM Symposium on Applied Perception

Conference Program

22nd-23rd August 2013

Trinity College Dublin

Conference Chairs

*Ludovic Hoyet - Trinity College Dublin
Betsy Williams Sanders - Rhodes College*

Program Chairs

*Joe Geigel - Rochester Institute of Technology
Jeanine Stefanucci - University of Utah*

Poster Chair

Cathy Ennis - Universiteit Utrecht

Thursday, 22nd August 2013	
08:00 - 08:45	Registration and Poster Set-up
08:45 - 09:00	Opening Remarks
09:00 - 10:30	Session 1: Shape Perception Session Chair: Joe Geigel
Surface Perception of Planar Abstractions James McCrae, Niloy J. Mitra and Karan Singh	
Shape Perception of Thin Transparent Objects with Stereoscopic Viewing Jianhui Chen and Robert Allison	
How Does Lighting Direction Affect Shape Perception of Glossy and Matte Surfaces Arthur Faisman and Michael Langer	
10:30 - 11:00	Coffee Break
11:00 - 12:20	Session 2: Stereoscopic Depth Perception Session Chair: Betsy Williams Sanders
Stereoscopic Static Depth Perception of Enclosed 3D Objects Filipe Marreiros and Örjan Smedby	
Stereoscopic Egocentric Distance Perception: The Impact of Eye Height and Display Devices José Corujeira and Ian Oakley	
Binocular Depth Perception of Stereoscopic 3D Line Drawings Yunjin Lee, Yongjin Kim, Henry Kang and Seungyong Lee	
12:20 - 14:00	Lunch
14:00 - 15:00	Keynote: Henrik Ehrsson Multisensory Mechanisms of Body Self-Perception
15:00 - 16:10	Session 3: Emotions and Avatars Session Chair: Bobby Bodenheimer
Unpleasantness of Animated Characters Increases Viewer Attention to Faces Elizabeth Carter, Moshe Mahler and Jessica Hodgins	
A Virtual Reality Setup for Controllable, Stylized Real-Time Interactions between Humans and Avatars with Sparse Gaussian Process Dynamic Models Nick Taubert, Martin Löffler, Nicolas Ludolph, Andrea Christensen, Dominik Endres and Martin Giese	
Evaluating the Effect of Emotion on Gender Recognition in Virtual Humans Katja Zibrek, Ludovic Hoyet, Kerstin Ruhland and Rachel McDonnell	
16:10 - 16:45	Poster Fast Forward
16:45 - 18:00	Coffee Break & Posters Session
19:30 - ????	Reception


Friday, 23rd August 2013	
08:30 - 09:00	Registration
09:00 - 10:30	Session 4: Video, Art, and HCI Session Chair: Ann McNamara
ElasticImages: Perceiving Local Elasticity of Images through a Novel Pseudo-Haptic Deformation Effect Ferran Argelaguet, David Antonio Gómez Jáuregui, Maud Marchal and Anatole Lécuyer	
Corpus Based Visual Synthesis: An Approach for Artistic Stylization Parag Mital, Mick Grierson and Tim Smith	
Transition Preference and Artifact Analysis for Video Transitions of Places James Tompkin, Min H. Kim, Kwang In Kim, Jan Kautz and Christian Theobalt	
10:30 - 11:00	Coffee Break
11:00 - 12:10	Session 5: Walking Session Chair: Jeanine Stefanucci
Walk With Me: Interactions in emotional walking simulations, a pilot study Jonathan Perrinet, Anne-Hélène Olivier and Julien Petré	
Torso versus Gaze Direction to Navigate a VE by Walking in Place Betsy Williams, Matthew McCaleb, Courtney Strachan and Ye Zheng	
Human Sensitivity to Dynamic Rotation Gains in Head-Mounted Displays Ruimin Zhang and Scott Kuhl	
12:10 - 14:00	Lunch
14:00 - 15:00	Keynote: James Ferwerda Tangible Imaging Systems
15:00 - 16:30	Session 6: 3D Display and Interaction Session Chair: Scott Kuhl
Guiding Attention in Controlled Real-World Environments Thomas Booth, Srinivas Sridharan, Ann McNamara, Cindy Grimm and Reynold Bailey	
Evaluation of Monocular Depth Cues on a High-dynamic-range Display for Visualisation Haider K. Easa, Rafal K. Mantiuk and Ik Soo Lim	
Audio-Visual Integration in Stereoscopic 3D Lesley Deas, Laurie M. Wilcox, Robert S. Allison and Ali Kazimi	
16:30 - 17:00	Coffee Break

17:00 - 18:45	Session 7: Motion and Orientation Session Chair: Rachel McDonnell
The Effect of Posture and Dynamics on the Perception of Emotion Aline Normoyle, Fannie Liu, Norman Badler, Mubbasir Kapadia and Sophie Joerg	
Believability in Simplifications of Large Scale Physically Based Simulations Donghui Han, Shu-wei Hsu, Ann McNamara and John Keyser	
Stepping off a ledge in an HMD-based immersive virtual environment Qiufeng Lin, John Rieser and Bobby Bodenheimer	
Does neck viewing angle affect spatial orientation in an HMD-based VE? Betsy Williams, Preston Tunnell Wilson, Gayathri Narasimham, Timothy McNamara, John Rieser and Bobby Bodenheimer	

18:45 - 19:00	Closing Session
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19:00 - 20:00	Business Meeting
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Thursday, 22nd August 2013 - 19:30
Reception
Irish Dance Show & Dinner



Arlington Hotel - Dinner (19:30) & Show (20:30)
23-25 Bachelors Walk, O'Connell Bridge

Science Gallery

