



# SPRING CONFERENCE ON COMPUTER GRAPHICS

Smolenice, May 1-3, 2013

Conference Chairmen: Holly Rushmeier

## SCCG 2013 - Conference Program

---

**WEDNESDAY, May 1, 2013**

Travel and Lunch

### CONFERENCE OPENING

14.00 INVITATION MOVIE

The Dean of the Faculty of Mathematics,  
Physics and Informatics

**Prof. RNDr. Jozef MASARIK, DrSc.**

SCCG 2013 Conference Chairman

**Prof. Holly RUSHMEIER**

\*\*\*\* SCIENTIFIC PROGRAMME \*\*\*\*

**KEYNOTE TALK** (chair: \*)

**14:30** *Achievements and Challenges in  
Application- Driven Research*

**Prof. Holly Rushmeier, Yale Univer-  
sity**

15:30 COFFEE BREAK

**IMAGE PLAYGROUND** (chair: \*)

**16:00** *Dynamic Texture Enlargement*  
**Michal Haindl, Radek Richt**

**16:25** *Combination of Global and Local Features  
for Efficient Classification of Paintings*  
**Zuzana Haladová, Elena Šikudová**

**16:50** *Comparison of Deghosting Algorithms for  
Multi-exposure High Dynamic Range Imag-  
ing*

**Kanita Karaduzovic Hadziabdic, Jas-  
minka Hasic Telalovic, Rafal Mantiuk**

**POSTER SESSION** (chair: \*)

**17:15** Fast Forward Poster Presentations

**17:30** Poster Session

\*\*\*\* SOCIAL PROGRAMME \*\*\*\*

**19:30 WELCOME PARTY**

---

**THURSDAY, May 2, 2013**

8:00 BREAKFAST

**\*\*\*\* SCIENTIFIC PROGRAMME \*\*\*\***

**GEOMETRY PROCESSING** (chair: \*)

**9:00** *Smoothing in 3D with Reference Points and Polynomials*

**Imrich Szabó, Csaba Török**

**9:25** *Desingularization of ADE Singularities via Deformation*

**Martina Bátorová, Miroslava Valíková,  
Pavel Chalmovianský**

**9:50** *Parallelization fo Mesh Contraction and Fairing using OpenCL*

**Martin Madaras, Roman Ďurikovič**

10:15 COFFEE BREAK

**INVITED TALK** (chair: \*)

**10:45** *Techniques for making animation directable*

**Ken Anjyo, OLM Digital, Japan**

12:00 LUNCH

**INFORMATION VISUALIZATION**

(chair: \*)

**13:00** *Contextual Snapshots: Enriched Visualization with Interactive Spatial Annotations*

**Peter Mindek, Stefan Bruckner, M.  
Eduard Gröller**

**13:25** *From Visualization to Association Rules: an automatic approach*

**Gwenael Bothorel, Mathieu Serrurier,  
Christophe Hurter**

**13:50** *Visualizing Dynamics of Object Oriented Programs with Time Context*

**Filip Grznár, Peter Kapec**

**INVITED TALK** (chair: \*)

**14:15** *Declarative Visualization*

**Ivan Viola, Vienna University of Technology, Austria**

15:15 COFFEE BREAK

**APPLICATION-DRIVEN RESEARCH**

(chair: \*)

**15:45** *Design and Detection of Local Geometric Features for Deformable Marker Fields*

**Zsolt Horváth, Adam Herout, István Szentandrás, Michal Zachariáš**

**16:10** *Fuzzy CT Metrology: Dimensional Measurements on Uncertain Data*

**Artem Amirkhanov, Christoph Heinzl,  
Christoph Kuhn, Johann Kastner, M.  
Eduard Gröller**

**16:35** *Exploring Multiple Modalities for Selective Rendering of Virtual Environments*

**Belma Ramic-Brkic, Alan Chalmers,  
Aida Sadzak, Kurt Debattista, Saida Sultanic**

**ILLUSTRATIVE GRAPHICS** (chair: \*)

**17:10** *Wisdom Mobile - Decision Support On-site  
Using Visual Simulation Control*

**Bernhard Sadransky, Hrvoje Ribicic,  
Robert Carnecky, Jürgen Waser**

**17:35** *Seamless Visual Abstraction of Molecular  
Surfaces*

**Julius Parulek, Timo Ropinski, Ivan  
Viola**

**18:00** *Doppler-based 3D Blood Flow Imaging and  
Visualization*

**Åsmund Birkeland, Dag Magne Ul-  
vang, Kim Nylund, Trygve Hausken,  
Odd Helge Gilja, Ivan Viola**

**\*\*\*\* SOCIAL PROGRAMME \*\*\*\***

**19:00 DINNER/BARBECUE SESSION**

---

**FRIDAY, May 3, 2013**

**8:00 BREAKFAST**

**\*\*\*\* SCIENTIFIC PROGRAMME \*\*\*\***

**FAST, REALISTIC LIGHTING** (chair: \*)

**9:00** *Green's Function Solution to Subsurface Light Transport for BRDF Computation*

**Charly Collin, Ke Chen, Ajit Hakke-Patil, Sumanta Pattanaik, Kadi Bouatouch**

**9:25** *Parallel MDOM for Light Transport in Participating Media*

**Ajit Hakke-Patil, Daniele Bernabei, Charly Collin, Ke Chen, Sumanta Pattanaik, Fabio Ganovelli**

**9:50** *Improved Computation of Attenuated Light with Application in Scenes with Many Light Sources*

**Tomáš Milet, Jan Navrátil, Adam Herout, Pavel Zemčík**

**10:15** *Predicting Sky Dome Appearance on Earth-like Extrasolar Worlds*

**Alexander Wilkie, Lukas Hošek**

10:40 COFFEE BREAK

**INVITED TALK** (chair: \*)

**11:00** *3D Printing und Rapid Manufacturing - Bringing virtual characters to the real world*

**Bernd BICKEL**

**Disney Research Zurich, Switzerland**

**12:00 CONFERENCE CLOSING CEREMONY**

12:30 LUNCH

---

(\*) to be confirmed

Please, follow the last minute changes at the MESSAGE BOARD in the lobby.

SCCG 2013 Organizing Committee