



TECHNISCHE UNIVERSITÄT WIEN
Institut für Computergraphik und Algorithmen
Abteilung für Computergraphik



CESCG 2014 - Final Program

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May 25th - 27th, 2014, in Smolenice, Slovakia

Final Program of CESC

This year, the entire proceedings are also available in a single pdf file: [ELECTRONIC PROCEEDINGS OF CESC 2014](#).

Note, that also this year, CESC is co-organized with the [Spring Conference on Computer Graphics \(SCCG\)](#), which takes place right after the seminar.

Overview

	May 25, 2014	May 26, 2014	May 27, 2014
08:00		Breakfast	Breakfast
08:45	Traveling	Parallel Graphics	Geometry Processing
10:00		Coffee Break	Coffee Break & IPC
10:30			Attention and Metrics
	Registration	Computer Vision	
11:45			Closing Ceremony
12:10			
12:30	Lunch	Lunch	Lunch
13:30	Opening Ceremony		
14:00		Invited Talk	

14:30	Invited Talk	Coffee Break	
15:00	Coffee Break		Cave visit (optional)
15:30		Lighting and Natural Phenomena	
	Augmented Reality		
16:40			
16:45	Photo Session & Castle Tour		
17:25		Spare Time	
	Spare Time & IPC		
			Traveling
19:00			
	Welcome Dinner	Barbecue Dinner	
20:15	Folk Dances Workshop		

Sunday, May 25, 2014, morning

1030	- Registration -
1230	- Lunch -

Sunday, May 25, 2014, afternoon

1330	- Opening Ceremony -
	Session: Invited Talk
	(Chair: Andrej Ferko)
1400	Rafał MANTIUK (United Kingdom)
	The Role of Perception in Graphics
1500	- Coffee Break -
	Session: Augmented Reality
	(Chair: Philip Vogelreiter)
1530	Michal Vinkler (Masaryk University, Czech Republic)
	 Integrating Motion Tracking Sensors to Human-Computer Interaction with Respect to Specific User Needs
	Stefan Spelitz (Vienna University of Technology, Austria)
	 Color Distribution Transfer for Mixed-Reality Applications
	Philipp Grasmug (Graz University of Technology, Austria)
	 Multi-frame Rate Augmented Reality
1645	- Photo Session & Castle Tour -
1725	- Spare Time & IPC -
1900	- Welcome Dinner -
2015	- Folk Dances Workshop -

Monday, May 26, 2014, morning

0800	- Breakfast -
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Session: Parallel Graphics(Chair: **Michal Ferko**)

0845

Jan Čejka

(Masaryk University, Czech Republic)

**Impact of Modern OpenGL on FPS****Rastislav Kamenický**

(Comenius University, Slovakia)

**Parallelization of Shape Diameter Function Computation using OpenCL****Mark Dokter**

(Graz University of Technology, Austria)

**Deriving Shape Grammars on the GPU**

1000

- Coffee Break -**Session: Computer Vision**(Chair: **Jiří Sochor**)

1030

Jakub Sochor

(Brno University of Technology, Czech Republic)

**Fully Automated Real-Time Vehicles Detection and Tracking with Lanes Analysis****Jernej Kranjec**

(University of Maribor, Slovenia)

**Custom Unmanned Aerial Vehicle for Photography-based Terrain Reconstruction****Denis Kolednik**

(University of Maribor, Slovenia)

**Coastal Monitoring for Change Detection Using Multi-temporal LiDAR Data****Marek Dvorožňák**

(Czech Technical University, Czech Republic)

**Interactive As-Rigid-As-Possible Image Deformation and Registration**

1210

- Lunch -**Monday, May 26, 2014, afternoon****Session: Invited Talk**(Chair: **Michael Wimmer**)

1330

Roberto SCOPIGNO

(Italy)

Visual Media for Cultural Heritage: An Opportunity for Assessing, Finding Limitations and Enhancing Technologies

1430

- Coffee Break -**Session: Lighting and Natural Phenomena**(Chair: **László Szécsi**)

1500

Ferenc Tükör

(Technical University of Budapest, Hungary)

**Hatching for Metaball Surfaces****Attila Szabo**

(Vienna University of Technology, Austria)

**Adaptive Tessellation in Screen Space Curved Reflections****Silvana Podaras**

(Vienna University of Technology, Austria)

**Automated Lighting Design For Photorealistic Rendering****Tomáš Lysek**

(Brno University of Technology, Czech Republic)

**Comparative Evaluation of Photon Mapping Implementations**

1640

- Spare Time -

1900

- Barbecue Dinner -**Tuesday, May 27, 2014, morning**

0800

- Breakfast -**Session: Geometry Processing**(Chair: **Martin Madaras**)

0845

Tibor Stanko

(Comenius University, Slovakia)

**Refining Procedures on Mesh via Algebraic Fitting****Michal Piovarči****Base Manifold Meshes from Skeletons**

(Comenius University, Slovakia)



István Kovács
(Technical University of
Budapest, Hungary)

**Applying Engineering Constraints in Digital
Shape Reconstruction**

1000

- Coffee Break & IPC -

Session: Attention and Metrics(Chair: **Bartosz Bazyluk**)

1030

Veronika Olešová
(Slovak University of
Technology, Slovakia)



**Modified Methods of Generating Saliency Maps
Based on Superpixels**

Adam Siekawa
(West Pomeranian University of
Technology, Poland)



Gaze-dependent Ray Tracing

Katarzyna Gościńska
(West Pomeranian University of
Technology, Poland)



**An Experimental Study on Various
Combinations of Shape Descriptors and
Matching Methods Applied in the General
Shape Analysis Problem**

1145

- Closing Ceremony -

1230

- Lunch -

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