

SPRING CONFERENCE ON COMPUTER GRAPHICS

Smolenice, May 28-30, 2014

Conference Chairman: Diego Gutierrez

Patel

SCCG 2014 - Conference Programme

WEDNESDAY, May 28, 2014

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 2014 Conference Chairman

Prof. Diego Gutierrez

**** SCIENTIFIC PROGRAMME ****

KEYNOTE TALK (chair: *)

14:30 Computation and Perception: Building Better Displays

Prof. Diego Gutierrez

Universidad de Zaragoza, Spain

15:30 COFFEE BREAK

VISUALIZATION, NATURAL PHENOMENA (chair: *)

16:00 Rapid Modelling of Interactive Geological Illustrations with Faults and Compaction Mattia Natali, Julius Parulek, Daniel

16:25 Live ultrasound-based particle visualization of blood flow in the heart

Paolo Angelelli, Sten Roar Snare, Siri Ann Nyrnes, Stefan Bruckner, Helwig Hauser, Lasse Løvstakken

16:50 A Survey of Direction-Preserving Layout Strategies

Martin Steiger, Jürgen Bernard, Thorsen May, Jörn Kohlhammer

POSTER SESSION (chair: *)

17:15 Fast Forward Poster Presentations

17:45 Poster Session

**** SOCIAL PROGRAMME ****

19:30 WELCOME PARTY

THURSDAY, May 29, 2014

8:00 BREAKFAST

**** SCIENTIFIC PROGRAMME ****

RENDERING (chair: *)

9:25 Bounding Volume Hierarchies versus Kdtrees on Contemporary Many-Core Architectures

Marek Vinkler, Vlastimil Havran, Jiří Bittner

9:50 Adaptive BVH: An Evaluation of an Efficient Shared Data Structure for Interactive Simulation

Colin Fowler, Michael J. Doyle, Michael Manzke

10:15 COFFEE BREAK

INVITED TALK (chair: *)

10:45 Image Space Filtering for Monte Carlo Rendering: A Small Price to Pay for Much Less Noise

Matthias Zwicker University of Bern, Switzerland

12:00 LUNCH

COMPUTER VISION

(chair: *)

13:00 Multiple instances object detection Zuzana Haladová, Elena Šikudová **13:25** Kinect-Supported Dataset Creation for Human Pose Estimation

Kamil Behúň, Adam Herout, Alexander Páldy

13:50 Hybrid Color Model for Image Retrieval Based on Fuzzy Histograms

Vedran Ljubovic, Haris Supic

INVITED TALK (chair: *)

14:30 High-Quality Passive Facial Performance Capture and its Applications

Thabo Beeler

Disney Research Zürich, Switzerland

15:30 COFFEE BREAK

APPLICATIONS (chair: *)

16:00 Cheap Rendering vs. Costly Annotation: Rendered Omnidirectional Dataset of Vehicles

Peter Šlosár, Roman Juránek, Adam Herout

16:25 Sampling Gabor Noise in the Spatial Domain

Victor Charpenay, Bernhard Steiner, Przemyslaw Musialski

INVITED PAPERS (chair: *)

17:00 Computational Photography: Coding in Space and Time

Belen Masia

17:35 History of SCCG
Andrej Ferko, Eugen Ružický

**** SOCIAL PROGRAMME ****

19:00 DINNER/BARBECUE SESSION

FRIDAY, May 30, 2014

8:00 BREAKFAST

**** SCIENTIFIC PROGRAMME ****

ANIMATION (chair: *)

9:00 Position Based Skinning of Skeleton-driven
Deformable Characters

Nadine Abu Rumman, Marco Fratarcangeli 9:25 Skeleton-based Matching for Animation Transfer and Joint Detection

> Martin Madaras, Michal Piovarči, Jana Běhal Dadová, Roman Franta, Tomáš Kovačovský

9:50 Evaluating the Covariance Matrix Constraints for Data-Driven Statistical Human Motion Reconstruction

Christos Mousas, Paul Newbury, Christos-Nikolaos Anagnostopoulos

10:15 COFFEE BREAK

INVITED TALK (chair: *)

10:45 Modeling and representing materials in the wild

Kavita Bala Cornell University, USA

11:45 CONFERENCE CLOSING CERE-MONY

12:15 LUNCH

(*) to be added

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

SCCG 2014 Organizing Committee