

Conference Programme

Wednesday 12th September

Recommended location to eat for those staying overnight.

Meeting in pub contact Martin Turner 07970 132 621

Thursday 13th September

Location ISIC

09:15: Registration desk opens

09:45 - 10:45: Welcome to TP.CG'12 and introduction to ISIC, Jon Blower

10:00 - 10:45: Keynote 1: Pascal Lecomte, ESA (European Space Agency)
"Problems in Visualizing Climate Change Initiative (CCI) Data"

10:45 - 11:15: Coffee

11:15 - 13:00: Session 1: "HDR / HW"

1. "Backwards Compatible JPEG Stereoscopic High Dynamic Range Imaging" Selmanovic Elmedin, Kurt Debattista, Thomas Bashford-Rogers (University of Warwick)
2. "Physical and perceptual limitations of a projector-based high dynamic range display" Robert Wanat, Josselin Petit (Bangor University)
3. "Light clustering for Dynamic Image Based Lighting" Sam Staton, Kurt Debattista, Thomas Bashford-Rogers, Alan Chalmers (Warwick Digital Laboratory, University of Warwick)
4. "Path Tracing on Massively Parallel Neuromorphic Hardware" Paul Richmond, David J Allerton (Department of Automatic Control Systems Engineering, University of Sheffield)

13:00 - 14:00: Lunch

10 min pre-lunch Sponsor Presentation:
HARP HyperWall show-and-tell, Adrian Gould

14:00 - 15:45: Session 2: Applications

1. "Using Quest3D to develop VES: a tool for enhancing electrical safety and design in the built environment" Martin Barrett (DIT)
2. "Simplified User Interface for Architectural Reconstruction" Fabian Wanner, Fabrizio Pece, Jan Kautz (University College London)
3. "Large Scale Pedestrian Multi-Simulation for a Decision Support Tool" Twin Karmakharm, Paul Richmond (University of Sheffield)
4. "ViewFusion: Correlating Structure and Activity Views for Execution Traces" Jonas Truemper, Alexandru Telea, Juergen Doellner (Hasso-Plattner-Institute)

15:45 - 16:15: Coffee

EGUK Conference on the Theory and Practice of Computer Graphics (TP.CG) 2012

16:15 - 16:40: Keynote 2: Dr Katherine J. Dobson, Manchester X-ray Imaging Facility, School of Materials, Research Complex at Harwell, Didcot, Oxfordshire, UK
"Seeing the unseeable – X-ray tomography and 3D visualisation in current research"

16:40 - 17:45: Diamond Light Source Tour
and pre-dinner drinks in Diamond Reception

18:45 - 19:15: Transit time

19:15 - late: Private Dining at The Kingswell

(Reading Road, Harwell, Oxon, OX11 0LZ Tel: 01235 833043 www.kingswell-hotel.com)

"Latest Developments from STFC Daresbury" – after-dinner talk: Terry Hewitt.

Friday 14th September

Location RAL R18 (Exhibition)

9:15 - 9:20: Introduction to RAL

9:20 - 10:00: Facilities Special Talk

1. "Laser Imaging Facilities in the Research Complex at Harwell" Dave Clarke (RAL/STFC)
2. The CCPi (Tomographic Imaging) and HIP (Harwell Imaging Partnership): Martin Turner (University of Manchester)
3. Hartree Computational Facility Terry Hewitt (WTH Associates Ltd.)

10:00 - 10:30: Coffee

10:30 - 12:15: Session 3: Visualization

1. "Advanced, Automatic Stream Surface Seeding and Filtering" Matt Edmunds (Swansea University, Wales, UK.), Robert S Laramée (Swansea University, Wales, UK.), Guoning Chen (University of Utah, US.), Nelson Max (University of California, Davis, US.), Eugene Zhang (Oregon State University, US.)
2. "A Framework for the Interactive Feature Specification and Quantitative Exploration and Analysis of Multivariate Volumetric Scalar Data and Their Uncertainties" Ma, Ji (University College Cork)
3. "Hardware Accelerated Medical Data Visualisation on the Web" Hui, Wei, Gordon Clapworthy (Dept. of Computer Science and Technology, University of Bedfordshire)
4. "Visualizing a Spherical Geological Discrete Element Model of Fault Evolution" Stephen Longshaw, Martin Turner, Finch Emma (The University of Manchester)

12:15 - : Lunch

5 min pre-lunch ViCoX streaming from Manchester (Louise Lever)

13:00 - 13:30: EGUK AGM

13:30 - 15:00: Session 4: Geometry

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1. "Fast scalable k-NN computation for very large point clouds" Sandro Spina, Keith Bugeja, (University of Malta), Kurt Debattista, Alan Chalmers (Warwick Digital Laboratory, University of Warwick)
2. "On the Fractal Behaviour of AA Patterns" Abdalla Ahmed (Sudatel Telecom Group)
3. "Computing Curve Skeletons from Medial Surfaces of 3D Shapes" Andrei Jalba, Alexandru Telea, (Institute Johann Bernoulli)

15:00 - 15:30: Coffee

15:30 - 16:30: Keynote 3: Dr Anna Bentkowska-Kafel, Department of Digital Humanities, King's College London, UK
"Who Needs Paradata?"

Includes: Mini-book launch: Paradata and Transparency in Virtual Heritage (Digital Research in the Arts and Humanities 2012), Ashgate Publishing Ltd Anna Bentkowska-Kafel, Hugh Denard, Drew Baker

16:30: Wrap-up, prize-giving and close

16:30 - 16:35: TP.CG'13 in Bath and TP.CG'14 in Leeds

16:35 - 16:40: EG'13 in Girona by Gustov Patow

16:40 - 16:50: Prizes

16:50 - 17:00: Goodbyes