3DIMPVT 2011: The First Joint 3DIM/3DPVT Conference
3D Imaging • Modeling • Processing • Visualization • Transmission
Hangzhou, China, May 16-19, 2011

In cooperation with Eurographics

First Call for Papers

Given the rapid growth of 3D research over the last decade and the recent surge of wide-ranging interest in 3D contents and techniques, the two premier conferences for research in 3D imaging, modeling and processing — 3DIM and 3DPVT — are joining forces for 2011. The event will provide a unique forum for disseminating ideas and results that cover a broad scope of topics related to 3D research in computer vision and graphics, from novel optical sensors, signal processing, geometric modeling, representation and transmission, to visualization software/hardware and applications. The organizers invite you to submit high quality, original full research papers by December 15, 2010. All accepted papers will be published by Conference Publishing Services, and available on IEEE Xplore. A best paper award will be given; authors of selected papers will be invited to submit expanded versions to a special issue of Machine Vision and Applications journal. Topics of interest include, but are not limited to:

ACQUISITION & MODELING
- 3D scanning sensors, software, and systems
- 3D view registration
- Automated view planning for surface acquisition
- 3D photography algorithms
- Multi-view geometry and calibration
- Shape reconstruction from point clouds
- Surface/solid modeling from images
- Shape and appearance modeling

PROCESSING & TRANSMISSION
- Geometric signal processing
- Multi-resolution 3-D representations
- 3D shape retrieval and recognition
- Shape analysis and morphology
- Simplification and resampling of shapes with photometric data
- Compression and transmission of 3D scenes
- Streaming and progressive refinements

INTERACTION & VISUALIZATION
- Image-based rendering and modeling
- Man/machine interactions with 3D data
- Augmented reality and virtual environments
- Haptic sensors and new human-shape interaction modalities
- Psychophysics of 3D sensing and haptics
- 3D printing and rapid prototyping

APPLICATIONS
- Reverse engineering, dimensional inspection & metrology
- Cultural heritage
- Object/human/environment models
- Medical applications
- 3D television and free-viewpoint video
- 3D tele-immersion and remote collaboration
- Forensics and security

The papers will be reviewed by an international Program Committee. The conference will be held in Hangzhou, China. Accepted papers will be presented in single-track oral and poster sessions. Full details on the paper format, electronic submission procedure and conference venue will be made available on the 3DIM/3DPVT 2011 web site.

http://www.3DIMPVT.org

Location: Hangzhou (杭州) is a city of 6 million people located 180 km southwest of Shanghai, in the beautiful and prosperous province of Zhejiang. It has a wealth of natural beauty, rich history and cultural heritage as well as fine traditional products such as silk and tea. There are direct flights to the Hangzhou Xiaoshan International Airport (HGH) from Beijing, Narita, Kansai, Hong Kong, Amsterdam, and other international airports.