



3DIMPVT 2011: The First Joint 3DIM/3DPVT Conference

3D Imaging • Modeling • Processing • Visualization • Transmission
Hangzhou, China, May 16-19, 2011

Organizers

General Chairs:

Guy Godin
(NRC, Canada)
Hongbin Zha
(Peking University, China)

Program Chairs:

Michael Goesele
(TU Darmstadt, Germany)
Yasuyuki Matsushita
(MSR-Asia, China)
Ryusuke Sagawa
(AIST, Japan)
Ruigang Yang
(University of Kentucky, USA)

Local Arrangement Chair:

Jian Wan
(Hangzhou Dianzi University, China)
Mingmin Zhang
(Zhejiang University, China)

Publication Chair:

Chang Shu
(NRC, Canada)

Demonstration Chair:

Huimin Yu
(Zhejiang University, China)

Publicity Chair:

Xin Chen
(NAVTEQ, USA)
Qili Zhou
(Hangzhou Dianzi University, China)

Finance Chair:

Zhigeng Pan
(Zhejiang University, China)

Panel/Challenge Chair:

Ioannis Stamos
(City University of New York, USA)

Web Chair:

Xinyu Huang
(North Carolina Central University, USA)

Important Dates:

Papers Due: Dec 15, 2010
Acceptance: Feb 21, 2011
Camera Ready: March 15, 2011
Conference: 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

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

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

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.