

# ECCV 2010 Workshop on

## Reconstruction and Modeling of Large-Scale 3D Virtual Environments

### Call for Papers

We invite you to submit articles for consideration on a wide range of topics broadly related to the **2010 International Workshop on Reconstruction and Modeling of Large-scale 3D Environments (RMLE 2010)**, to be held in conjunction with the 11th European Conference on Computer Vision (ECCV 2010), on Sept 11, 2010, in Greece.

In recent years there has been an increasing demand for applications which employ miniature representations of the real world to recreate realistic and immersive virtual environments. Many applications ranging from computer vision, computer graphics, film effects, computer games and virtual reality, to Geographical Information Systems have already successfully used real world representations derived from the combination of multi-sensory data captured from ground, aerial, satellite imagery and range scanners.

The workshop seeks original high-quality research and application submissions in all aspects of modeling and reconstruction of large-scale 3D environments. Suggested topics include, but are not limited to:

- Scene reconstruction from multi-dimensional and multi-view images
- Wide-area structure from motion and stereo
- 3D scene modeling from multiple sensors
- Real-time scene modeling from video
- Range data analysis and processing
- 3D shape and feature representation
- Multi-sensor data fusion, alignment, and registration
- 3D model simplification and compression
- Stream processing for very large datasets
- Appearance/illumination modeling and representation
- Real-time, mobile 3D systems
- Rendering and visualization of large-scale models
- Applications of large-scale models and modeling systems

#### Important Dates

- Paper Submission Due: **June 16, 2010**
- Notification of Acceptance: **July 10, 2010**
- Camera-Ready Paper Due: **July 15, 2010**
- Workshop Date: **September 11, 2010**

#### Organizers

- Suya You, University of Southern California, USA, [suyay@imsc.usc.edu](mailto:suyay@imsc.usc.edu)
- Charalambos Poullis, University of Cyprus, Cyprus, [charalambos@poullis.org](mailto:charalambos@poullis.org)
- Michael Wand: Saarland University and Max-Planck Institute Informatik, Germany, [mwand@mpi-inf.mpg.de](mailto:mwand@mpi-inf.mpg.de)

#### Program Committee

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**Ajmal Saeed Mian**, University of Western Australia, Australia

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**Daniel G. Aliaga**, Purdue University, USA

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**Philippos Mordohai**, Stevens Institute of Technology, USA

**Shinsaku Hiura**, Osaka University, Japan

**Sudipta Sinha**, Microsoft Research, USA

**Suresh Lodha**, University of California - Santa Cruz, USA

**Svetlana Lazebnik**, University of North Carolina–Chapel Hill, USA

**Ulrich Neumann**, University of Southern California, USA

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#### Contact

For any questions about the Workshop, please contact to: [RMLE@cs.ucy.ac.cy](mailto:RMLE@cs.ucy.ac.cy)

**More information online at: <http://graphics.cs.ucy.ac.cy/RMLE>**