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Introduction

We are delighted to invite you to participate in the 2011 International Conference on Photonics, 3D-imaging, and Visualization (ICP3V 2011) on October 30–31, 2011, Guangzhou, China.

The objective of ICP3V 2011 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of photonics, visualization, processing and transmission, to disseminate their latest research results and exchange views on the future research directions of photonics, 3D-imaging, and visualization fields.

The 2011 International Conference on Photonics, 3D-imaging, and Visualization (ICP3V 2011) is cosponsored by South China Normal University (China), the International Computer Science Society (Hong Kong, China), and the National Natural Science Foundation of China. The mission is to bring together innovative academics and industrial experts in the field of photonics, visualization, processing and transmission. ICP3V 2011 will also include presentations of contributed papers and state-of-the-art lectures by invited keynote speakers. The conference will bring together leading researchers, engineers, and scientists in the domain of interest.

The conference will provide a unique forum for disseminating and discussing ideas and results that cover a broad scope of topics related to photonics, 3D-imaging, and visualization, such as lasers and optical devices; laser spectroscopy; light wave communication systems and subsystems; nanophotonics; nonlinear optics; optical based measurements; optical fiber and waveguide technologies; optical imaging; optical materials; optical signal processing; 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; geometric signal processing; multi-resolution representations; shape retrieval and recognition; shape analysis and morphology; simplification and resembling of shapes with photometric data; compression and transmission of scenes; and streaming and progressive refinements.

We would like to thank the program chairs, organization staff, and the members of the program committees for their hard work. Special thanks go to SPIE.

We hope that ICP3V 2011 will be successful and enjoyable to all participants. We look forward to seeing all of you next year at ICP3V 2012.

Egui Zhu

