

**5th International Workshop on Projector Camera Systems
PROCAMS'08
Co-Located with SIGGRAPH 2008
Los Angeles, California, USA**

Workshop Date: August 10th, 2008 (Sunday)

PROGRAM

7:45 – 8:30 am **Breakfast**

8:30 – 8:45 am **Welcome**

8:45 – 9:30 am **Keynote Presentation:** Toward the Penultimate Display with Projectors and Cameras
Prof. Henry Fuchs

9:30 – 9:45 am **Short Break**

9:45 – 10:45am **Paper Session I – Tiled Displays**

**1. Calibrating Multi-Projector Cylindrically Curved Displays for “Wallpaper”
Projection**

Wei Sun, Irwin Sobel, Bruce Culbertson, Dan Gelb, Ian Robinson
(Hewlett-Packard Laboratories)

**2. Robust Checkerboard Recognition for Efficient Nonplanar Geometry
Registration in Projector-Camera Systems**

Weibin Sun
Xubo Yang
Shuangjiu Xiao
Wencong Hu
(Shanghai Jiao Tong University)

3. Multi-Projector Display with Continuous Self-Calibration

Jin Zhou
Liang Wang
Amir Akbarzadeh
Ruigang Yang
(University of Kentucky)

10:45 – 11:15am **Morning Coffee Break**

11:15 – 12:00pm **Panel Discussion**

“The Future of Projector/Camera Systems”

Panelists:

Ramesh Raskar (MIT – Media Lab, USA)
Rajeev Surati (Scalable Displays, USA)
Hendrik Lensch (Max Planck, Germany)
Aditi Majumder (U. California Irvine, USA)
Masahiko Inami (Keio University, Japan)

12:00 – 1:45pm **Lunch and Poster/Demo**

POSTERS

A Geometric Correction Method for Projected Images Using SIFT Feature Points

Toru Takahashi (Tohoku University, Japan)
Norihito Numa (Tohoku University, Japan)
Takafumi Aoki (Tohoku University, Japan)
Satoshi Kondo (Matsushita Electric Industrial, Japan)

Real World Dynamic Appearance Enhancement with Procam Feedback

Toshiyuki Amano
Hirokazu Kato
(Nara Institute of Science and Technology, Japan)

Shadow Multiplexing for Single Camera Visual Hull Reconstruction

Tom Cuypers
Yannick Francken
Philippe Bekaert
(Expertise Centre for Digital Media, Hasselt University , Belgium)

DEMOS

Anywhere Pixel Router

Steve Dominick
Ruigang Yang
(University of Kentucky, USA)

Free Form Projection Display and Application

Daisuke Kondo
Yuichi Shiwaku
Ryugo Kijima
(Gifu University, Japan)

Projector Camera System for Realtime 3D Scanning

Hiroshi Kawasaki (Saitama Univ., Japan)
Inose Kenji (Saitama Univ., Japan)
Toshihiro Kawasaki (Saitama Univ., Japan)
Ryo Furukawa (Hiroshima City Univ., Japan)
Ryusuke Sagawa (Osaka Univ., Japan)
Yasushi Yagi (Osaka Univ., Japan)

First Multi-Projector Desktop Curved Screen Displays Ostendo Technologies

Ostendo Technologies (<http://ostendotech.com/>)

1:45 – 2:45pm **Paper Session II – Shape Extraction**

Measurement of 3D Foot Shape Deformation in Motion

Makoto Kimura (Digital Human Research Center, AIST Japan)
Masaaki Mochimaru (Digital Human Research Center, AIST Japan)
Takeo Kanade (Carnegie Mellon University)

Mesostructure from Specularity Using Gradient Illumination

Yannick Francken

Tom Cuypers

Philippe Bekaert

(Hasselt University / Expertise Centre for Digital Media)

A New System to Acquire and Restore Document Shape and Content

George Landon (Eastern Kentucky University)

Brent Seales (U. Kentucky)

Duncan Clarke (U. Kentucky)

2:45 – 3:00pm **Afternoon Break**

3:00 – 4:00pm **Paper Session III – Analysis**

Software-based Distortion Compensation for a Scanned Beam Display

Miao Liao

Zhengyou Zhang

John Lewis

(Microsoft Research, USA)

Color Mixing Property of a Projector-Camera System

Xinli Chen

Xubo Yang

Shuangjiu Xiao

Meng Li

(Shanghai Jiao Tong University)

Reducing Resolution Loss in Two-Pass Rendering by Optimal View Directions and Display-Surface Partitioning

R. Matt Steele (U. Kentucky)

Christopher Jaynes (Mersive Technologies)

Ruigang Yang (U. Kentucky)

4:00 – 4:10pm **Best Paper Award**

4:10 – 6:00pm **Visit to USC, Institute for Creative Technologies
(Special thanks to Paul Debevec)**

6:00pm **Workshop Closing Remarks**