Biographical Sketch: Ruigang Yang

Professional Preparation

Columbia University, New York, NY	Computer Science	M.S.	1998
University of North Carolina at Chapel Hill (UNC-CH)	Computer Science	Ph.D.	2003

Appointments

07/2014 – current:	Full Professor	University of Kentucky
07/2010 – 07/2011	Visiting Professor	ETH-Zurich
07/2009 – 06/2014:	Associate Professor	University of Kentucky
07/2003 – 06/2009:	Assistant Professor	University of Kentucky
01/1998 – 05/2003:	Research Assistant	UNC-CH
05/1997 – 12/1997:	Software Engineer	Mail.com, NYC.
01/1997 – 12/1997:	Research Assistant	Columbia University

Publications

(i) Closely related to the proposed project:

Huamin Wang, Mingxuan Sun, and Ruigang Yang, *Space-time Light Field Rendering*, in IEEE Transactions on Visualization and Computer Graphics (TVCG), 13(4), 697-710, 2007

P. Merrell, A. Akbarzadeh, L. Wang, P. Mordohai, J-M. Frahm, R. Yang, D. Nister and M. Pollefeys. *Fast Visibility-Based Fusion of Depth Maps, IEEE International Conference on Computer Vision (ICCV), 2007 (Oral Presentation)*,

Liang Wang, Ruigang Yang, James E. Davis, *BRDF Invariant Stereo using Light Transport Constancy,* IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI) 29(9): 1616-1626, 2007

Ruigang Yang and Zhengyou Zhang, *Eye Gaze Correction with Stereovision for Video-Teleconferencing*, IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI) 26(7): 956-960, 2004

Ruigang Yang, Marc Pollefeys, and Greg Welch. *Dealing with Textureless Regions and Specular Highlights—A Progressive Space Carving Scheme Using a Novel Photo-consistency Measure,* pp. 576-584, ICCV 2003

(ii) Other significant publications:

Ruigang Yang, Xinyu Huang, Sifang Li, Christopher Jaynes, *Toward the Light Field Display: Autostereoscopic Rendering via a Cluster of Projectors*, in IEEE Transactions on Visualization and Computer Graphics (TVCG), 14(1), 84-96, 2007

Qìngxióng Yáng, Liang Wang, Ruigang Yang, Henrik Stewénius, and David Nistér, *Stereo Matching with Color-Weighted Correlation, Hierarchical Belief Propagation and Occlusion Handling*, CVPR 2006

Miao Liao, Liang Wang, Ruigang Yang and Minglun Gong, Light Fall-off Stereo, CVPR 2006

Michael S. Brown, Aditi Majumder, Ruigang Yang, *Camera-Based Calibration Techniques for Seamless Multi-Projector Displays*, in IEEE Transactions on VISUALIZATION AND COMPUTER GRAPHICS (TVCG), 11(2): 193-206, 2005

James E. Davis, Ruigang Yang, Liang Wang: BRDF Invariant Stereo Using Light Transport Constancy. ICCV 2005: 436-443

Mingxuan Sun, Ruigang Yang, Lin Yun, George Landon, W. Brent Seales, Michael S. Brown: Geometric and Photometric Restoration of Distorted Documents. ICCV 2005: 1117-1123

Biographical Sketch: Ruigang Yang

Synergistic Activities

Patents

Head Pose Tracking System, with Zhengyou Zhang (Microsoft Research), patent pending (filed in May 2002).

Video-Teleconferencing System with Eye-gaze Correction, with Zhengyou Zhang (Microsoft Research), US patent 6771303.

Awards

Dean's Research Award 2014
Best Demo Award CVPR 2007
NVIDIA Professor Partnership Award 2006
NSF CAREER Award, 2005
Link Foundation Fellowship, 2002
Motorola Scholarship, Tsinghua University, Beijing, China, 1994
Excellent Student Scholarship, First Prize, Tsinghua University, 1993, 1995

Program Chair for

WACV 2013, 3DIMPVT 2011, Procam 2008,

Session Chair for

International Symposium on Computational and Information Sciences (CIS'04) 2004,
3DPVT, 2006, North Carolina

Panelist for IEEE VR 2005 International Workshop on Emerging Display Technologies (in conjunction with VR 2005)

Program committee member of

ACM SIGMM Workshop on Experiential Telepresence (2003, 2004),
CVPR (2005-2013), ICCV (2005-2013), ECCV 2006, ACCV (2006-2009), 3DPVT 2006
- Computer Graphics and Interfaces, 2006

Reviewer for

International Journal of Computer Vision
PAMI, CVPR, ACCV, ICCV, Transactions on Multimedia, Visualization, Robotics and Automation
International Workshop on Immersive Telepresence (with ACM Multimedia)
ACM SIGGRAPH, Eurographics, I3D

Collaborators and Other Affiliations

(a) Collaborators: Michael Brown (Hong Kong University of Science and Technology), Henry Fuchs(UNC-CH), Marc Pollefeys (UNC-CH), Brent Seales (Univ. of Kentucky), Herman Towles (UNC-CH), Greg Welch (UNC-CH), James Davis (UC-Santa Cruz), Zhengyou Zhang (MS Research), Minglun Gong (Memorial University, Canada)

(b) Graduate advisor: Greg Welch (UNC-CH)

(c)Student advisees: Xinyu Huang (North Carolina Central University), Liang Wang (Baidu), Miao Liao (Sharp Lab North American), Xianwang Wang (HP), Jizhou Gao (Apple), Chenxi Zhang (Adobe), Mao Ye (Apple)