Dinghuang Ji

Contact Information	Research Scientist @ Alibaba iDST 500 108th Avenue NE. Bellevue, WA	mobile:(919)360-0885 e-mail: jdh@cs.unc.edu
Research Interests	3D Scene Reconstruction with Crowd Sourced Data, Solving Traditional Problems with Deep Methods	
Education	University of North Carolina at Chapel Hill,, Chapel Hill, NC, USAPhD StudentSep• Advisors: Prof. Jan-Michael Frahm and Prof. Enrique Dunn• Research Topic: View Synthesis and 3D Reconstruction of Dynamic Sc	. 2012 – Aug. 2017 enes
	 Virtual Reality Lab of Institute of Computing Technology, CAS, Master of Engineering Advisors: Prof. Shihong Xia Master Thesis: Expression Cloning and Video Driven Facial Animation 	Beijing, China Sep. 2009 – 2012
	 University of Science and Technology of China (USTC), Heifei, Anhui, China Bachelor of Science Sep. 2005 – Jun. 2009 Undergraduate Thesis : Implementation of Some Key Technologies in Virtual 3D Community Advisors: Prof. Chenxi Shao and Prof. Zhaoqi Wang 	
PUBLICATIONS	Dinghuang Ji , Zhen Wei, Enrique Dunn and Jan-Michael Frahm, "Dynamic Visual Sequence Pre- diction with Motion Flow Networks", Winter Conference on Applications of Computer Vision 2018.	
	Dinghuang Ji , Junghyun Kwon, Max Mcfarland and Silvio Savarese, "Deep View Morphing", Computer Vision and Pattern Recognition 2017.	
	Dinghuang Ji , Enrique Dunn and Jan-Michael Frahm, "Spatio-Temporally Consistent Correspondence for Dense Dynamic Scene Modeling", European Conference of Computer Vision 2016.	
	Dinghuang Ji , Enrique Dunn and Jan-Michael Frahm, "Synthesizing Illumination Mosaics from Internet Photo-Collections", International Conference of Computer Vision 2015.	
	Dinghuang Ji , Enrique Dunn and Jan-Michael Frahm, "3D Reconstruction of Dynamic Textures in Crowd Sourced Data", European Conference of Computer Vision 2014.	
	Enliang Zheng, Dinghuang Ji , Enrique Dunn and Jan-Michael Frahm, "Self-expressive Dictionary Learning for Dynamic 3D Reconstruction", Transactions on Pattern Analysis and Machine Intelligence 2017.	
	Filip Radenovic, Johannes L. Schönberger, Dinghuang Ji , Jan-Michael Frahm, Ondrej Chum and Jiri Matas "From Dusk Till Dawn: Modeling in the Dark", Computer Vision and Pattern Recognition 2016.	
	Enliang Zheng, Dinghuang Ji , Enrique Dunn and Jan-Michael Frahm, "Sparse Dynamic 3D Reconstruction from Unsynchronized Videos", International Conference of Computer Vision 2015.	
	Meng Wang, Dinghuang Ji , Qi Tian and Xiansheng Hua , "Intelligent Photo Clustering with User Interaction and Distance Metric Learning", <i>Pattern Recognition Letters</i> (17 February 2011) doi:10.1016/j.patrec.2011.02.012 Key: citeulike:8889025	
	Dinghuang Ji , Meng Wang, Xiansheng Hua and Qi Tian, "Semi-Automatic Photo Clustering with Distance Metric Learning", In <i>Proceedings of IEEE Visual Communications and Image Processing</i> (<i>VCIP</i>), vol. 7744 (2) 2010	

	Research on Comupter Vision related applications, in support of company needs. Resposibilities include:	
	 Research related to computer vision and graphics. Project related to virtual reality and self-driving delivery car. 	
	Computer Vision team. Bicoh innovations	
	NOVEL VIEW SYNTHESIS May. 2016 – Aug. 2016 Propose a new CNN with 3D geometric constraints for novel view synthesis. Mentor: Dr. Junghyun Kwon and Dr. Silvio Savarese.	
	Robotics group, Baidu IDLMay. 2015 – Aug. 2015AUTONOMOUS CAR LOCALIZATIONMay. 2015 – Aug. 2015Localize car position with RGB camera and pre-computed 3D maps. Mentor: Dr. Shiyu Song.	
	Computer Science Department at UNC Chapel HillSept. 2016 – Mar. 2017VISUAL MOTION PREDICTIONSept. 2016 – Mar. 2017Predicting motion sequence of dynamic shapes from image(s).Sept. 2016 – Mar. 2017	
	DENSE 3D RECONSTRUCTION WITH UNSYNCHRONIZED VIDEOS Nov. 2015 – Apr. 2016 A method to simultaneously synchronize videos and dense 3D reconstruction of rigid body motions.	
	3D MODELING IN THE DARK Sep. 2015 – Nov. 2015 A method to modeling and texturing buildings with night time images.	
	Sparse 3D Reconstruction with Unsynchronized VideosJan. 2015 – Apr. 2015A method to simultaneously synchronize videos and sparse 3D reconstruction of rigid body motions	
	APPEARANCE MOSAICS FROM INTERNET PHOTO COLLECTIONSApr. 2014 - Apr. 2015A method to analyze temporal sequencing of Internet images and visualize by time-slice mosaic.	
	3D DYNAMIC SCENE RECONSTRUCTION Sept. 2013 – Apr. 2014 A method to automatically build the 3D model for scenes with dynamic appearance and static shape.	
	Institute of Computing Technology, Beijing, ChinaMar. 2011 – Jul. 2012MOTION DATA CAPTURE AND FACIAL ANIMATIONMar. 2011 – Jul. 20123D facial animation with Vicon motion data and blendshape model.Mar. 2011 – Jul. 2012	
	Microsoft Research Asia, Beijing, China SEMI-SUPERVISED IMAGE CLUSTERING November 2009 – March 2010 We propose an interactive photo clustering paradigm that jointly explores human and computer.	
SERVICES	CVPR 2016 2017 2018, ICCV 2017, ECCV 2016 2018, 3DV 2018, ACCV 2018, Neurocomputing, Image and Vision Computing Journal, Transactions on Circuits and Systems for Video Technology	
Programming	C++ in Windows and Linux, Matlab, Python, LATEX, HTML, Cmake, Visual Studio, Qt Creator,	

Vim, OpenCV, OpenGL, Meshlab, Qt, OpenFrameworks, Caffe etc.

Computer Vision team, Alibaba iDST

Oct. 2017 - present

Research Experience

AND SOFTWARE