Nuo Ma

Information 190 Alumni Mall, Blacksburg, Virginia 24060. nuoma@vt.edu. (540) 750-1035.
My research interest is Computer Vision / Machine Learning / Virtual Reality.

Education

Virginia Tech, Blacksburg VA *Expected Oct. 2016*
Master in Computer Engineering. Research Assistant ICAT

Shandong University, Jinan, China *May 2014*
Bachelor in Internet Of Things Engineering.

RWTH Aachen University, Germany *May-Jul.2012*

Research Experience

Mirror Worlds, project manager, Virginia Tech ICAT *2014-2016*
This interdisciplinary project brings together engineers, computer scientists, artists, etc as we collaboratively work to create an infrastructure to do research on environments in both physical and virtual spaces. Our goal is to create a fully immersive experience in both the new Moss Arts Center and online, allowing people to view and interact with people visiting our installations in both mediums. Responsibilities include: computer vision people identification and tracking algorithms, develope node.js server, unity development environment.

Stereo Vision Based Driving Assistance, China *Oct.2013-May.2014*
Project teamleader of senior design. Implemented stereo matching algorithm and parallelization with GPU using CUDA for real-time disparity map computing.

SDU - Virginia Tech International Laboratory, China *2013-2014*
Work with international team specialized in bat biomimetics. Synchronized 3D motion and ultrasonic recordings provides quantitative analysis of the functional role of noseleaf motion in bat biosonar. Responsibilities include: Designed and implemented data acquisition systems involving cameras and ultrasonic sensors using NI DAQ & Labview. Implemented stereo reconstruction with OpenCV. Implemented data processing in Matlab. Implemented pilot test and data pre processing for bat flight kinematics identification.

Work Experience

R&D Intern, Hisense, Qingdao, China *2014*
Internship in 3D TV group. Research focus on 3D scene reconstruction and user interaction in virtual environment.

IT Internship, Merck & Co., Shanghi, China *2012*
Technical support. Write technical document for users.

Publication

Nuo Ma, Hannes Bend, et al., Well-Being Computing: AI Meets Health and Happiness Science Mindful Technologies Research and Developments in Science and Art, AAAI spring symposium 2016.