Chi Zhang

Resume

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Education

Sep. 2012 - Now	**PhD Candidate**, *Sun Yat-Sen University*, Guangzhou, China. Computer Application Technology, in a joint PhD program with Microsoft Research Asia.
Sep. 2008 - Jun. 2012	**Bachelor of Science**, *Sun Yat-Sen University*, Guangzhou, China. Computer Science.

Experiences

Sep. 2013 - Now	**Research Intern**, *Microsoft Research Asia*. **Research on Stereo Matching**. Investigated existing approaches on stereo matching and proposed two new methods: As-Rigid-As-Possible Stereo (ECCV'14) and MeshStereo (ICCV'15) which outperformed the state-of-the-arts. **Research on RGB-D SLAM**. Implemented a frame-to-frame RGB-D SLAM system for object scanning with pose-graph optimization. Proposed a new approach to jointly perform pose estimation and multiview segmentation (CVPR'16).
Sep. 2012 - Aug. 2013	**Working in Lab**, *Sun Yat-Sen University*. **Research on Clipart Image Vectorization**. Proposed a new approach to directly optimize bezigons without suffering from the drawbacks of using intermediate representations (such as polygons), and outperformed the state-of-the-arts (TVCG'15).
Nov. 2011 - Aug. 2012	**Research Intern**, *Microsoft Research Asia*. **Practice on Structure-from-Motion**. Implemented a Structure-from-Motion pipeline, ranging from SIFT matching, fundamental matrix estimation, feature triangulation to bundle adjustment.

Skills

- Experienced programming in C++, MATLAB, Python.
- Experienced in parallel programming, OpenCL, C++/AMP.
- Experienced usage of OpenCV, OpenGL.

Highlights

- 1st place on Middlebury stereo benchmark 3.0 (`Apr. 2016`). [MeshStereoExt]
- 1st place on Middlebury stereo benchmark 3.0 (`Apr. 2015`). [MeshStereo]
- 3rd place on Middlebury stereo benchmark 2.0 (`Mar. 2014`). [ARAPStereo]

Publications

- **Chi Zhang**, Zhiwei Li, Rui Cai, Hongyang Chao, Yong Rui.
  Joint Multiview Segmentation and Localization of RGB-D Images using Depth-Induced Silhouette Consistency.
  International Conference on Computer Vision and Pattern Recognition (CVPR), 2016.

- **Chi Zhang**, Zhiwei Li, Yanhua Cheng, Rui Cai, Hongyang Chao, Yong Rui.
  MeshStereo: A Global Stereo Model with Mesh Alignment Regularization for View Interpolation.
  International Journal of Computer Vision (IJCV), special issue on ICCV 2015 best papers (Undergoing review). **Invite submission**.

- **Chi Zhang**, Zhiwei Li, Yanhua Cheng, Rui Cai, Hongyang Chao, Yong Rui.
  MeshStereo: A Global Stereo Model with Mesh Alignment Regularization for View Interpolation.
  International Conference on Computer Vision (ICCV), 2015. **Oral presentation**.

- Yanhua Cheng, Rui Cai, **Chi Zhang**, Zhiwei Li, Xin Zhao, Kaiqi Huang, Yong Rui.
  Query Adaptive Similarity Measure for RGB-D Object Recognition.
  International Conference on Computer Vision (ICCV), 2015.

- Ming Yang, Hongyang Chao, **Chi Zhang**, Jun Guo, Lu Yuan, Jian Sun.
  Effective Clipart Image Vectorization Through Direct Optimization of Bezigons.
  IEEE Transactions on Visualization and Computer Graphics (TVCG), 2015.

- **Chi Zhang**, Zhiwei Li, Rui Cai, Hongyang Chao, Yong Rui.
  As-Rigid-As-Possible Stereo under Second Order Smoothness Priors.
  European Conference on Computer Vision (ECCV), 2014.