Biao Jia

Curriculum Vitae

University of North Carolina at Chapel Hill
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Education

Aug.2016-Present	**University of North Carolina at Chapel Hill**, *ph.D candidate*, advised by Dinesh Manocha.
Sept.2010-July.2014	**Tsinghua University**, *Beijing*, B.Eng, Computer Science and Technology.

Relevant Skills

Language	C++, Python, Matlab, Bash
Framework	ROS, OpenCV, OpenAI, Flask

Employment History

July.2014-May.2015	**Landscape Mobile Tech Co.,Ltd.**, *Beijing*, Algorithm Engineer. Designed algorithm for two iOS apps: Sight and Screenshots. ○ Built an iOS application dataset and a application classifier with interns. ○ Enhanced the OCR rate on screenshots of tesseract by rebuilding models and rewriting functions. ○ Designed an algorithm to grab the icons and pictures on the screenshots.

Research Experience

Nov. 2014	**Density Equalization: Efficient Occluded Prediction and avoidance for Multi-agent Motion Planning**, *AAMAS 2017*, coauthor with Liang He, Dinesh Manocha. A real-time multi-agent motion planning algorithm which can handle narrow-passage problem.
Aug. 2016	**Resolution-Complete Multi-agent Motion Planning with Arbitrarily-Shaped Obstacles**, *AAAI 2017*, coauthor with Liang He, Dinesh Manocha. We highlight its performance on challenging 2D benchmarks and highlight the benefits over prior methods.
Spring.2014	**Pedestrian Segmentation after Detection**, *Diploma Project*, advised by Ai Haizhou. Apply superpixel segmentation, probabilistic model and sparse codinng to compute the segmentation confidence map. Highlight in computing efficiency.
Summer.2013	**Context based Binary Image Retrieval based on Visual Vocabulary**, *Hong Kong Polytechnic University*, submitted to ICPR 2014. Application of this algorithm is to patent image retrieval.

Awards

Nov. 2011	**Beijing Marathon**.
Sep. 2011	**Scholarship in Tsinghua University** , *3rd Place*.
Nov. 2008 -Nov. 2007	**National Olympiad in Informatics in Provinces**, *1st Prize*.