

Contact:

Yi Li

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Education

Aug 2004–present **Ph.D student**, ECE Dept, UMIACS, University of Maryland, College Park
Aug 2004 **M.Eng in Computer Science**, South China University of Technology, Guangzhou (**Awarded 1st rank**)
Aug 2002 **B.Eng in Computer Science**, South China University of Technology, Guangzhou (**Awarded 3rd rank**)

Position

Aug 2004–present **Research Assistant**, University of Maryland Institute for Advanced Computer Studies.
2000–Aug 2003 **Technical Member**, Huagong Tomorrow Company. The product was awarded 3rd rank from The City of Guangzhou, and the Province of GuangDong, China.

Fellowship

Jan 2008–present **Future Faculty Fellow**, ECE Dept, A. James Clark School of Engineering, University of Maryland. (for potential for securing a tenure-track faculty position at a top-50 engineering school.)

Research Summary

Primary Research Area: **Computer Vision**

1. Motion Capture: understanding the Human Actions
2. SLAM (Simultaneously Localization and Mapping) for robots
3. Visual navigation for (Humanoid) Robots
4. Silhouette consistency for 3D surface reconstruction
5. Handwritten document processing

Competition and Awards

- a. **2nd place**, 1st Semantic Robot Vision Challenge (sponsored by US NSF), AAAI2007, Vancouver, Canada, 2007.
- b. **Best student paper**, Yi Li, Yefeng Zheng, David Doermann and Stefan Jaeger, A New Algorithm for Detecting Text Line in Handwritten Documents. 10th International Workshop on Frontiers in Handwriting Recognition, 2006.

Publications:

Journal:

1. **Yi Li**, Yefeng Zheng, David Doerman, and Stefan Jaeger, Script-Independent Text Line Segmentation in Freestyle Handwritten Documents, **IEEE Transaction on Pattern Analysis and Machine Intelligence** (in press)
2. **Yi Li**, Zhiyan Wang, and Haizan Zeng, Correlation Filter: An Accurate Approach to Detect and Locate Low Contrast Character Strings In Complex Table Environment, **IEEE Transaction on Pattern Analysis and Machine Intelligence**, Vol.26, Issue 12 (Dec 2004)

Conference:

1. **Li Yi**, David W. Jacobs, Efficiently Determining Silhouette Consistency, **IEEE Conference on Computer Vision and Pattern Recognition 2007**, Minneapolis, Minnesota, June 2007
2. Konstantinos Bitsakos, **Li Yi**, and Cornelia Fermüller, Combining Motion from Texture and Lines for Visual Navigation, **IEEE/RSJ International Conference on Intelligent Robots and Systems 2007**, San Diego, CA, US, 2007
3. Xiaodong Yu, **Li Yi**, Cornelia Fermuller, and David Doermann, Object Detection Using A Shape Codebook, **British Machine Vision Conference 2007**, University of Warwick, UK, Sep 2007.
4. **Yi Li**, Yefeng Zheng and David Doermann. Detecting Text Line in Handwritten Documents. **International Conference on Pattern Recognition 2006**, pages 1030-1033, 2006.
5. **Yi Li**, Zhiyan Wang, and Haizan Zeng, Adaptive Color Document Images Binarization for Text Retrieval, The 11th Conference on Document Retrieval and Recognition, USA, in **Proc. of SPIE**, 2004.1, San Jose, CA, USA

6. **Yi Li**, Zhiyan Wang, and Haizan Zeng, String Extraction From Color Airline Coupon Image Using Statistical Approach, **7th International Conference on Document Analysis and Recognition**, Page: 289-294, 2003.8, Edinburgh, UK