

Yi Liu

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INTERESTS Human-Computer Interaction, Eye Tracking, Computer Vision, Data Analysis.

EDUCATION **Nanyang Technological University (NTU)** 2013-present
PhD, Interdisciplinary Graduate School, School of Computer Science of Engineering.
Advisors: Bu-Sung Lee and Martin J. McKeown

Harbin Institute of Technology (HIT) 2009-2013
B.Eng., School of Software Engineering.

AWARDS

- Postgraduate Research Scholarship, 2013-2017.
- The People Scholarship of Harbin Institute of Technology, 2009-2012.
- Advanced Individual of Social Work (4 in 126), 2011.

PUBLICATIONS

- **Yi Liu**, Bu-Sung Lee, Andrzej Sluzek, Deepu Rajan, and Martin Mckeown, “Feasibility Analysis of Eye Typing with a Standard Webcam” In *ECCV Workshop on Assistive Computer Vision and Robotics*, Amsterdam, The Netherlands, Oct 2016. (Oral, 12/64 = 18.7%)
- **Yi Liu**, Bu-Sung Lee, and Martin J. Mckeown, “Robust Eye-Based Dwell-Free Typing” *International Journal of Human-Computer Interaction*, 2016.
- **Yi Liu**, Bu-Sung Lee, Martin J. Mckeown and Chonho Lee, “A Robust Recognition Approach in Eye-Based Dwell-Free Typing,” In *2015 International Conference on Progress in Informatics and Computing*, Nanjing, China, Dec 2015.
- **Yi Liu**, Chi Zhang, Chonho Lee, Bu-Sung Lee and Alex Q. Chen, “GazeTry: Swipe Text Typing Using Gaze,” In *The 27th Australian Conference on Human-Computer Interaction (HCI)*, Melbourne, Australia, Dec 2015.
- Chonho Lee, Jinyao Chin, **Yi Liu**, and Bu-Sung Lee, “Feasibility analysis and adaptive thresholding for mobile applications controlled by EEG signals,” In *23rd European Signal Processing Conference (EUSIPCO)*, Nice, France, Aug 2015.
- Chonho Lee, **Yi Liu**, Li-Hau Tan, Weihan Goh, Bu-Sung Lee and Chai-Kiat Yeo, “A Wavelet Entropy-Based Change Point Detection on Network Traffic: A Case Study of Heartbleed Vulnerability,” In *IEEE 6th International Conference on Cloud Computing Technology and Science (CloudCom)*, Singapore, Dec 2014.
- **Yi Liu**, Chonho Lee, Bu-Sung Lee, James K. R. Stevenson, and Martin J. Mckeown, “Analysis of Visually Guided Tracking Performance in Parkinson’s Disease,” in *IEEE 16th International Conference on e-Health Networking, Applications and Services (Healthcom)*, Natal, Brazil, Oct 2014.
- Chonho Lee, Yu Terada, **Yi Liu**, and Bu-Sung Lee, “A motion accuracy evaluator based on body parts movement by MapReduce video processing,” *IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)*, Valencia, Spain, June 2014.

PRESENTATIONS

- A Robust Recognition Approach in Eye-Based Dwell-Free Typing. *PIC 2015*, Nanjing, China.
- GazeTry: Swipe Text Typing Using Gaze. *OzCHI 2015*, Melbourne, Australia.
- Analysis of Visually Guided Tracking Performance in Parkinson’s Disease. *HealthCom, 2014*, Natal, Brazil.

**INDUSTRY
EXPERIENCE**

Software Engineer Intern, Chinese Academy of Science.

Summer 2012

- Studied on designing and developing efficient information Storage and Searching System for massive records. As a new NoSQL Database, it is different from HBase, in which it stores data in local server instead of HDFS.

REFERENCE

Bu-Sung Lee

Associate Professor, SCSE, NTU.

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Martin J. McKeown

Full Professor, Neuroscience, UBC.

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