Chang Hu

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Objective
Position in Human Computer Interaction

Education
08/2005 - Present
>   Ph.D. Candidate (M.S. received on Dec 2008), **University of Maryland – College Park**

09/2003 – 06/2005
>   M.S. in Automation, **Tsinghua University**, Beijing, China

09/1999 – 07/2003
>   B.S. in Automation, **Tsinghua University**

Experience
Internships

Microsoft Live Labs (Research), Redmond, WA 05/2008 – 08/2008
- Compact visualization for web pages

Zumobi Inc., Seattle, WA 05/2007 – 05/2008
- Zoomable user interface for J2ME phones

Fuji Xerox Palo Alto Lab, Palo Alto, CA 05/2006 – 08/2006
- Multimedia meeting support tool based on smart paper

Microsoft Research Asia, Beijing, China 07/2003 – 11/2003
- Massively Speaker-Specific Recognition
- New feature extractor for speech signal processing.

ABB (China) Ltd., Beijing, China, 04/2003 – 10/2003
- Calculation modules for boilers' heat efficiency (C language).

China Mobile, Guangzhou, China, 07/2002 – 09/2002
- Data management on routing servers

Research Assistantships

Dept. of Computer Science, University of Maryland, 12/2005 - Present
- Crowd-sourced translation without bilingual people (current)
- Email filtering based on reputation networks
- Text extraction and reflow for children's picture books
- Fast note-taking tool with zoomable user interface
- Pen-based annotation and operation for 3-D physical surfaces

Dept. of Automation, Tsinghua University, 09/2000 – 06/2005
- Pattern analysis with acceleration sensors and monocular camera
- Character extraction and restoration on images with highly structured noise
- Nonlinear load forecasting for centralized air-conditioning systems

Teaching Assistantships
Dept. of Computer Science, University of Maryland, 08/2005 – 05/2007
- CMSC 250, Discrete Structures
- CMSC 351, Algorithms

Dept. of Automation, Tsinghua University, 03/2004 – 07/2004
- Modern Sensor Technology

Selected Publications

C. Hu, Y. Kronrod, P. Resnik, B. Bederson, "Deploying *MonoTrans Widgets in the Wild*", accepted by ACM CHI 2012, May 2012

C. Hu, B. Bederson, P. Resnik, Y. Kronrod, "*MonoTrans2: A New Human Computation System to Support Monolingual Translation*", ACM CHI 2011, May 2011

C. Hu, B. Bederson, P. Resnik. "*Translation by Iterative Collaboration between Monolingual Users*", Graphics Interface '10, June 2010

C. Hu, "*Collaborative Translation by Monolingual Users*", ACM CHI 2009, Apr. 2009

J. Teevan, E. Cutrell, D. Fisher, SM. Drucker, G. Ramos, P. Andre, **C. Hu**, "*Visual Snippets: Summarizing Web Pages for Search and Revisitation*", ACM CHI 2009, Apr. 2009

A. Quinn, **C. Hu**, B. Bederson, A. Rose and T. Arisaka, "*Reading Scanned Books in Web Browsers*", ACM CHI 2008

C. Hu, Q. Liu, X. Liu and P. McEvoy, "*POEMS: A Paper Based Meeting Service Management Tool*", IEEE ICME '07, Jul. 2007

C. Hu, "*Pose and Position Estimation Based on Image Sensing and Acceleration Sensors*", Tsinghua University M.S. thesis

C. Hu, "*Nonlinear Time Series Forecasting for Centralized Air-Conditioning Systems*", Tsinghua University B.S. thesis

Computer Skills
Programming Languages
- Java, C#, Python, Javascript, HTML, CSS: proficient.
- MATLAB: competent
- C, C++, R: prior exprience.

Honors
Rockwell Scholarship (Top 3%), Tsinghua University, 1999 - 2004

Honor Graduate (Top 3%), Tsinghua University, 2003.

Top 1 among over 100,000 candidates in the National Entrance Exam (similar to SAT) in Guangdong Province, China, 1999

Personal Interest
Languages
Chinese Mandarin and Cantonese (native), English (fluent), Japanese (intermediate), Spanish and German (beginner)