

ZHENSONG ZHANG

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EDUCATION

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| University of Chinese Academy of Sciences, Beijing, P.R. China
(Institute of Software Chinese Academy of Sciences)
Master of Science, Computer Applied Technology | Sep. 2011 – Present |
| Xidian University, Xi'an, P.R. China
Bachelor of Engineering, Software Engineering
Dissertation: Merging Domain-Specific Web Search Interfaces of the Deep Web | Sep. 2007 – Jul. 2011 |

PUBLICATIONS

- **Zhang, Z.**, et al. Hierarchical Cursor: Pointing on Large Displays using Smartphones. In preparation.
- **Zhang, Z.**, Zhang, F., Chen, H., Liu, J., Wang, H. and Dai, G. Left and Right Hand Distinction for Multi-Touch Tabletop Interactions. *Proc. IUI 2014*, Pages 47-56.
- Liu, J., Zhang, F., **Zhang, Z.**, Chen, H., Dai, G., and Wang, H. Left-Right Hand Distinction System for Multi-Touch Tabletop. *Journal of Software*, 2014, 25(5), Pages 939-952.
- Li, Y., Wang, Y., Jiang, P., **Zhang, Z.** Multi-objective optimization integration of query interfaces for the Deep Web based on attribute constraints. *Data & Knowledge Engineering*, Volume 86, July 2013, Pages 38-60.
- Li, Y., Wang, Y., Yang, X., **Zhang, Z.**, Zheng, Y., and Zheng, L. NMLCS: A Novel Parallel Algorithm for Searching for the Multiple Longest Common Subsequences. *Energy Procedia*, Volume 11, 2011, Pages 1392-1404.

SELECTED PROFESSIONAL EXPERIENCE

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| Markerless Real Time Camera Tracking System
<i>Designer and Developer</i> <ul style="list-style-type: none">• Dissertation research on implementing a SLAM/PTAM system.• Using camera images only to estimate the pose and position of a moving camera in an unknown environment in real time. | Dec. 2012 - Present |
| Large Display Based Interactive System
<i>Main Developer</i> <ul style="list-style-type: none">• Collecting sensor information from smart devices (phones/pads), and estimating the devices poses to interact with a large display.• Users can view the 3D world in 3 modes (driving, track ball, flight) , pick and modify (scale/rotate/translate) objects.• Several users can simultaneously interact with different objects on the same large display. | May 2013 - Aug. 2013 |
| Left and Right Hand Distinction System for Multi-Touch Tabletop
<i>Designer and Developer</i> <ul style="list-style-type: none">• Analyzing the interactive video using OpenCV and figuring out the relationships between the fingers.• Proposed a heuristic method to distinguish left hand from right hand. | Oct. 2012 - Nov. 2012 |

HONORS AND AWARDS

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| • National Scholarship , University of Chinese Academy of Sciences | 2%, 2013 |
| • Merit Student , University of Chinese Academy of Sciences | 15%, 2012 & 2013 |
| • Privilege to enter the Graduate Program of Institute of Software Chinese Academy of Sciences, waived of Entrance Test | 2011 |
| • Excellent Student Cadre , Xidian University | 1%, 2009 & 2011 |
| • Merit Student , Xidian University | 3%, 2008 & 2010 |
| • The First Class Scholarship for Academic Achievement , Xidian University | 3%, 2008 & 2010 |
| • National Scholarship for Encouragement , Xidian University | 3%, 2009 |

EXTRACURRICULAR ACTIVITIES

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| • Member of Open Source Club of University of Chinese Academy of Sciences | 2011 - Present |
| • The network administrator of Intelligence Engineering Lab, Institute of Software, Chinese Academy of Sciences | 2012 - 2013 |
| • The Minister of Propaganda Department of the Student Union of the Department of Computer and Information Science and Engineering, University of Chinese Academy of Sciences | 2011 - 2012 |
| • The Minister of Propaganda Department of the Student Union of the Department of Freshmen, Xidian University | 2007 - 2008 |

COMPUTER SKILLS AND OTHER PROFICIENCIES

- Programming: C/C++, Java, Matlab, Python, SQL.
- Libraries: OpenCV, OpenSceneGraph, OpenGL, boost.
- Platform: Windows 7/XP, LINUX, Android.
- Others: Network Programming, Parallel programming, L^AT_EX.