YILIANG JIN

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EDUCATION

STANFORD UNIVERSITY — **Stanford, CA**

Master of Science in Computer Science — Sept 2010 – Mar 2012

Coursework highlight: Artificial Intelligence, Machine Learning, Social Network Analysis

- GPA 4.0/4.0

SHANGHAI JIAO TONG UNIVERSITY — **Shanghai, China**

Master of Science in Microelectronics and Solid State Electronics — Sept 2007 – Feb 2010

- GPA 3.87/4.0 (ranked 1st out of 47)

Bachelor of Science in Electrical Engineering — Sept 2003 – Jul 2007

EXPERIENCE

Wison (Shanghai) Telecommunication Technology CO., Ltd. — **Shanghai, China**

Software Engineer in Social Network Analysis group — Feb 2010 – Aug 2010

- Designed AWK Shell scripts for analyzing and extracting key information in the Call-Record Database of mobile telecommunication services of China Unicom.
- Developed C++ algorithms on circle and connection analysis on individual users to perform user profiling, customer ranking, and churn prediction.
- Implemented Modularity Maximization algorithm and Clique Percolation Method in C++ to identify social communities in a telecom network.
- Applied viral marketing in separate communities via social-influencer detection algorithms.

Microrobotics Lab, Shanghai Jiao Tong University — **Shanghai, China**

Reconfigurable Modular Climbing Multi-Microrobot System — Nov 2008 – Feb 2010

- Integrated the control system on a 28mm diameter PCB to reduce the complexity of system.
- Developed a zigzag control method for wall-climbing according to the dynamics of a robot.
- Designed algorithms of pillar-climbing and ditch-crossing.

Microrobot Dynamic Optimization — Feb 2007 – Oct 2008

- Constructed a dynamic model with slip for the robot and route simulations.
- Developed a vision feedback-based control method to improve positioning performance.
- Designed a new magnetic wheel structure to optimize dynamic performance.
- Applied reinforcement learning algorithms on robot route-planning to reduce deviation.

SELECTED PUBLICATIONS

- **Y. Jin**, J. Chen, Z. Li, "A Magnetic Wheel Structure for an Omnidirectional Microrobot to Limit Slip Effect", *International Journal of Advanced Robotics Systems,* Vol.6, pp.277-284, 2009.
- **Y. Jin**, J. Chen, Z. Li, "Dynamic Modeling, Control and Simulation with Slip for an Omnidirectional Mobile Microrobot", *Lecture Notes in Artificial Intelligence ICIRA 2008*, Vol. 5314, Part I, pp. 911-920, 2008.

HONORS

Excellent Academic Scholarship	Shanghai Jiao Tong University	2005-2009
Kwang-Hua Scholarship (first class)	Shanghai Jiao Tong University	2007-2008
Best Undergraduate Thesis	Shanghai Jiao Tong University	2007

COMPUTER SKILLS

- Programming: C/C++, VB, JAVA, PYTHON, PERL, AWK, MATLAB, SQL
- Operation System: Windows, Linux