Curriculum Vitae

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Research Interests

The long-term goal is human-level AI. Interested in using intermediate technologies as well as hypothetical frameworks to bridge the gap between the biological mind and man-made systems. Also interested in applied AI such as multi-agent system, semantic web and virtual environment simulation. Relevant researches include 3D computer game engine, new programming methodologies, human computer interface and networked virtual environment.

Education

 7/2001 – present
 Zhejiang University (ZJU)

 Department of Computer Science.
 Affiliated with ChuKechen Honors College, a program for outstanding students.

 Bachelor Degree expected in July 2005.

Research and Engineering Experience

2/2004 - present	Neural Parallel Language (NPL): Proposed and implemented a neural network based
	programming paradigm where both the coding and compiling process are carried out in a
	distributed manner and environment with rich HCI enabled interface. See also [2] [3].
	ParaEngine: Designed and implemented a modern 3D computer game engine ParaEngine.
	Its framework is based on a modified version of the Simulation Theory on human brain. The
	analogy of human cognition to simulation system has been applied to the proposed game
	engine to construct distributed Internet games. See also [1] [4] [12]
	Parallel World Game: Architect and chief developer. This Internet 3D Role Playing Game is
	built on top of the ParaEngine and Neural Parallel Language.
7/2004 - 8/2004	MicroWindows Program Development and Embedded Device Simulation Platform:
	Independent developer. Developed the software development and debugging environment for
	the Wearable DVD hardware platform with emulated GUI and remote controller. Project
	accomplished at Shenzhen Tech-Innovation International. See also [11].
12/2003 - 2/2004	Microprocessor and Peripherals for Motion Control System: System designer and chief
	developer. This is a verilog implementation optimized for FPGA with reduced MIPS
	instruction set and specialized I/O controls. It is part of the One-chip Motion Control System
	in corporation with the International Rectifier Corp. and the High Density Servo Control
	System at Harbin Institute of Technology. See also [7] [13].
2/2003 - 1/2004	Web Agent Framework: Project leader and chief developer. It aims to create visible human
	relationships on the network using agent technologies. See also [6].
	Multi-Agent System and Its Applications: Performed general research at Artificial
	Intelligence Institute of Zhejiang University under the supervision of Prof. Qinming He. [5]
9/2003 - 1/2004	Funding Interface for HDIS: Project leader, architect and chief developer in a team of
	twenty members. Developed a finance management system for the Home Design and
	Improvement System (HDIS) using secure client/server architecture.
9/2002 - 9/2003	Three personal software projects at University Clubs of Microsoft Research Asia. (1) Plane

Plot: A 2.5-D pipeline modeling tool. (2) **Directory Robot**: A software agent that builds a customizable website from users' disk files and folders. (3) **Web Agent Framework**: Further research was performed on this multi-agent system application. See above.

7/2002 – 9/2002 **Survey of the Civic Water Pipeline System in Harbin**: Technical leader in the Summer Practitioner Team. Developed a water pipeline modeling tool.

Publications

- [1] Xizhi Li. Synthesizing Real-time Human Animation by Learning and Simulation. (to be submitted)
- [2] Xizhi Li. DHCI: an HCI Framework in Distributed Environment. 11th International Conference on Human-Computer Interaction (accepted for presentation)
- [3] Xizhi Li. Using Neural Parallel Language in Distributed Game World Composing. In the Proceedings of IEEE Distributed Framework of Multimedia Applications 2005.
- [4] Xizhi Li. ParaEngine: A Game Engine Framework for Distributed Internet Games. (submitted)
- [5] Xizhi Li. An HCI Template for Distributed Applications. International Conference on Computational Intelligence 2004.
- [6] Xizhi Li, Qinming He. WAF: an Interface Web Agent Framework. International Conference on Information Technology 2004.
- [7] Xizhi Li, Tiecai Li. ECOMIPS: An Economic MIPS CPU Design on FPGA. In the Proceedings of IEEE International Workshop on System On Chips 2004.
- [8] Xizhi Li and Hao Lin. A Proposal of Evaluation Framework for Higher Education. (submitted as student's track)
- [9] Xizhi Li. How Much Is Shaded. Journal of Intermediate Physics. Vol.6. 2001. (In Chinese)
- [10] Xizhi Li. Four Methods to the Wheel Velocity Calculation. New City Delivery. Dec. 2000. (In Chinese)

- Selected Project Documentation

- [11] Xizhi Li. "A Cross-Platform Simulation Framework for Embedded Devices". Sept. 2004 (32 pages)
- [12] Xizhi Li. "ParaEngine Reference Book". Aug. 2004. (700 pages)
- [13] Xizhi Li. "ECOMIPS: Design Book and User Manual of 32bits MIPS CPU IP Core". Dec. 2003 (96 pages)

Technical Skills

Advanced programming: Proficient in Object-Oriented Methodology, Visual C++, MFC, C# and .NET; rich experience in DirectX, OpenGL and UML; extensive knowledge in Java.

Web design tools and web server technology: ASP, ASP.NET, web service and XML.

Software: SQL server, Microsoft Access and their programming interface; Matlab; 3dsmax.

Hardware: Hardware Description Language (HDL), Electronic Design Automation (EDA) tools, FPGA and embedded system design.

Honors and Awards

From Zhejiang University: Student Scholarships. 2001,2002,2003,2004 2004 Special Contribution Award in the Shakespeare Festival. Second Class Prize Winner in the ChuKechen College's English Writing Competition. 2004 2002 Two silver medals in Men's Long Jump and Triple Jump in Zhejiang University Games. 2002 Outstanding Volunteer Work Honors. 2002 Outstanding Student Award. 2002 Special Contribution Award from the ChuKechen College. The only recipient of the year. **Before college:**

1999,2000,2001	Student scholarships in high school.
1999,2000	First Class Prize Winner in National English Contest.
1999,2000	Provincial Second Class Prize Winner in National Physics Contest

Extracurricular Activities

Built the official website for 2004 Shakespeare Festival in Zhejiang University.
Gave several public presentations on Web Agent Framework in the Microsoft School
Club at Zhejiang University.
Participated in the Zhejiang University Math Modeling Competition.
Participated in the ACM Competitions in Zhejiang University.
Hosted English Saloon in ChuKeChen College, Zhejiang University.
Participated in Men's Long Jump and Triple Jump in Zhejiang University Games.

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