

CURRICULUM VITAE

PERSONAL INFORMATION:

Name: Hu, Xiaobing

Sex: Male

Date of Birth: November 16, 1975

Nationality: Chinese

Position: Associate Professor of Information and Computing Science, Master Supervisor

Address: Department of Information and Computing Science, School of Mathematics and Physics, Chongqing University, Chongqing, 400030 P. R. China.

E-mail: iamhxb@hotmail.com, iamhxb@sina.com

Telephone: +86 23 86255158

EDUCATION:

Ph.D. (2001.09-2004.06): Control Theory & Control Engineering, Chongqing University, China

M.S. (1997.09-2000.06): Operational Research and Control, Chongqing University, China

B.S. (1993.09-1997.06): Applied Mathematics, Nationality College of Hubei, China

EXPERIENCES:

2000.07-2002.06: Teaching Assistant of School of Mathematics and Physics, Chongqing University

2002.06-2006.09: Lecturer of School of Mathematics and Physics, Chongqing University

2005.1 to present: Master Supervisor of School of Mathematics and Physics, Chongqing University

2006.10 to present: Associate Professor of School of Mathematics and Physics, Chongqing University

RESEARCH INTERESTS:

- Computational Intelligence (Ant Colony Optimization, Particle Swarm Optimization, Genetic Algorithm, Artificial Immune Algorithm, Artificial Neural Network)
- Pattern Recognition
- Software Engineering
- Information Security

COURSES TAUGHT:

- Data Structure and Algorithm Analysis (2000-2003)

- C++ Programming (2002-2004)
- Java Programming (2001)
- Computer Network (2002-2003)
- Network Security (2002-2004)
- Database Principals (2004 -2005)
- Modern Cryptography (2004 - present)
- Computer Graphics (2004- present)
- Analysis and Design of Information System (2002)

FOUNDATION PROJECT:

- Chongqing Natural Science Foundation (2005-2007, Project No. CSPC,2005BB2197)
- Research Launching Foundation for Advanced Expert of Chongqing University, 2004-2006

PROGRAMMING SKILLS:

- Visual C++
- Visual Basic
- JavaScript, VBScript, Web Programming
- MS SQL Server

PUBLICATIONS:

- ZHAO Chao-qing, *HU Xiao-bing*. New hybrid algorithm for solving 0-1 knapsack problem. Engineering and Applications of Computer, 2008, 44(18):61-63. (in Chinese)
- Wu Zhifeng, *Hu Xiao-bing*. An Ant Colony Algorithm Based on Ratepaying and Its Application in TSP. Computer Simulation, 2009,26(2):201-203. (in Chinese)
- LAO Ling-ying, *HU Xiao-bing*. Cooperative Particle Swarm Optimization Algorithm Based on Particle's Spatial Extension. Engineering and Applications of Computer, 2006, 40(35):66-68. (in Chinese)
- *HU Xiao-bing*, HUANG Xi-yue. Solving TSP with Characteristic of Clustering by Ant Colony Algorithm[J]. Journal of System Simulation, 2004,16(12):2683-2686. (EI cited, in Chinese)
- *HU Xiao-bing*, HUANG Xi-yue. Research on hybrid behavior based ant colony algorithm[J]. Control and Decision, 2005, 20(1):69-72.(EI cited, in Chinese)
- *HU Xiao-bing*, HUANG Xi-yue. Solving 0-1 knapsack problem based on ant colony optimization algorithm[J]. Journal of System Engineering, 2005,20(5):520-522. (in Chinese)
- *HU Xiao-bing*, HUANG Xi-yue. Ant colony algorithm based on hybrid behavior apply to traveling salesman problem[A]. The Proceedings of the International Computer Congress 2004 on Wavelet Analysis and Its Applications, and Active Media Technology (ICWAA04-ICAMT04), World Scientific Publishers, Singapore .2004. 583-588(EI, ISTP Cited, in English).
- HUANG Xiyue, *HU Xiaobing*. Ant system with new pheromone update apply to traveling salesman problem. International Conference on Engineering Applications and Computational Algorithms, Guelph, Ontario, Canada July 27-29, 2005. (SCI cited, in English)

- HU Xiao-bing, HUANG Xi-yue. Solving Traveling Salesman Problem with Characteristic of Clustering by Parallel Genetic Algorithm[J]. *Engineering and Applications of Computer*, 2004, 40(35):66-68. (in Chinese)
- HU Xiao-bing, HUANG Xi-yue. Ant Colony Optimization Algorithm with Application[J]. *Computer Simulation*, 2004, 21(5):56-61. (in Chinese)
- HU Xiao-bing, HUANG Xi-yue, ZHANG Zhu-hong. A Novel Adaptive Ant Colony Algorithm with Application[J]. *Computer Simulation*, 2004, 21(6):108-112. (in Chinese)
- HU Xiao-bing, HUANG Xi-yue, YUAN Rui, YI Ji-jun. PASCAL Apply to Large-scale TSP Problem[J]. *Computer Simulation*, 2004, 21(7):52-54. (in Chinese)
- HU Xiao-bing, YUAN Rui, HUANG Xi-yue, YI Ji-jun. Simulating Study on the Principle of Ant Colony Algorithm[J]. *Computer Simulation*, 2004, 21(8):125-128. (in Chinese)
- HU Xiao-bing, HUANG Xi-yue. Ant Colony Algorithm Apply to Maze Problem[J]. *Computer Simulation*, 2005, 22(2):114-116. (in Chinese)
- HUANG Xi-yue, HU Xiao-bing. Ant Colony Algorithm Applied to K-person Traveling Salesman Problem[J]. *Computer Simulation*, 2004,21(12):162-164. (in Chinese)
- HU Xiao-bing, YUAN Rui. Developing Large-scale Management Information System and Prototype Simulation[J]. *Computer Simulation*, 2005, 22(6):272-276. (in Chinese)
- HU Xiao-bing, HU Xiaoping, HUANG Xi-yue. Ant Colony System Based on Immune Principle with Application[J]. *Practice and Cognition of Mathematics*, 2006.6. (in Chinese)
- HU Xiao-bing, HUANG Xi-yue. Path Planning in 3-D Space for Robot Based on Ant Colony Algorithm[J]. *Journal of Chongqing University(Natural Science Edition)*, 2004, 27(8):132-135. (in Chinese)
- HU Xiao-bing, YUAN Rui. Target-based Security Management Architecture Applied to Management Information System[J]. *Journal of Chongqing University(Natural Science Edition)*, 2005, 28(2):85-88. (in Chinese)
- HU Xiao-bing, YUAN Rui. Recursion Algorithm Based on File Controls of VB and Its Application[J]. *Microcomputer Development*, 2004, 14(5): 102-104. (in Chinese)
- ZHANG Zhu-hong, HUANG Xi-yue, HU Xiao-bing. A Genetic Algorithm Based on Repeating Crossover and Optimum Maintaining Strategy[J].*Journal of Chongqing University(Natural Science Edition)*, 2002, 25(7):23-25. (in Chinese)
- HUANG Xi-yue, LIU Wei-hong, MA Xiao-xiao, HU Xiao-bing, etc.. Mechanism of Human-Machine Cooperation Based on Agent and the Role of Human Being[J]. *Journal of Chongqing University(Natural Science Edition)*, 2002, 25(9). (in Chinese)

BOOK:

- HU Xi-yue, HE Chuan-jiang, ZHANG Zhu-hong, HU Xiao-bing, MA Xiao-xiao. Theories and Applications of Modern Intelligent Algorithms, published by Chinese Science Publishing House, April, 2005 (in Chinese)