

Curriculum Vitae: Zhi-Ping Liu

Born in July, 1980; Male; Chinese citizen

Institute of Applied Mathematics
Academy of Mathematics and Systems Science
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Education

- ◇ Chinese Academy of Sciences, Academy of Mathematics and Systems Science
Beijing, 09/2005 – 06/2008
Ph.D. in Applied Mathematics (Operations Research and Control Theory)
- ◇ Shandong University, School of Mathematics and Systems Science
Jinan, 09/2002 – 06/2005
M.S. in Applied Mathematics (Operations Research and Control Theory)
- ◇ Shandong University, School of Mathematics and Systems Science
Jinan, 09/1998 – 06/2002
B.S. in Applied Mathematics (Operations Research and Statistics, with Honor)

Interests

- Bioinformatics and Systems Biology
- Graph Theory and Combinatorial Optimization
- Statistical Learning and its Applications
- Data Mining and Knowledge Discovery
- Exact and Approximization Algorithm
- Optimization in Complex Systems

Skills

- C/C++, Python, BASIC/Visual Basic, HTML, CSS, PHP, SQL
- Matlab, Lingo/Lindo, Fortran, R, SAS, SPSS, S-PLUS
- Windows, Linux/Unix, \LaTeX / \TeX , Windows Office
- Fluent spoken/written English and Chinese, Elementary spoken/written Japanese

Experience

- Webmaster, 09/2005 – now
Worked as the webmaster of Center of Bioinformatics (COBI) of Academy of Mathematics and Systems Science, Chinese Academy of Sciences
- Teaching Assistant: Management Information Systems, 09/2004 – 02/2005
Worked as a lecturer and tutored students, Shandong University
- Teaching Assistant: Mathematical Programming, 03/2004 – 07/2004
Worked as a lecturer and tutored students, Shandong Institute of Light Industry
- Teaching Assistant: Modern Algebra, 09/2003 – 01/2004
Worked as a lecturer and tutored students, Shandong University
- Teaching Assistant: Advanced Mathematics, 09/2002 – 02/2003
Wrote and graded assignments and tutored students, Shandong University
- Research Assistant: Programmer, 09/2002 – 07/2005
Worked as a research assistant in the Economics and Operations Research (E & OR) lab of Shandong University
- Research Assistant: Programmer, 03/2002 – 07/2002
Worked as a coder in the Department of Education of Shandong University

Honors and Awards

- The Yingda Scholarship of MADIS, Chinese Academy of Sciences, 2008
- The Excellent Monitor of Shandong University, 2005
- The Excellent Young Student of Shandong University, 2005
- The Excellent Research Scholarship of Shandong University, 2004
- The Best Paper Award of School of Math, Shandong University, 2004
- The Student Graduated with Honor of Shandong University, 2002
- The Student Graduated with Honor of Shandong Province, 2002
- The Three-Good Student of Shandong University, 2001
- The Outstanding Student Scholarships of Shandong University, 1998–2002

Professional Activities

- The 2008 International Conference on Intelligent Computing. Shanghai, China, 09/2008
- The 2nd International Conference on Life System Modeling and Simulation (LSMS), Shanghai, China, 09/2007
- The 2007 International Conference on Intelligent Computing. Qingdao, China, 08/2007
- The First International Symposium on Optimization and Systems Biology. Beijing, China, 08/2007
- The 5th International Bioinformatics Workshop. Weihai, China, 06/2007
- The Open Day of Center of Bioinformatics of Academy of Mathematics and Systems Science, Chinese Academy of Sciences. Beijing, China, 12/2005
- Membership of Operations Research Society of China, 2005 –

Publications

1. Zhi-Ping Liu, Ling-Yun Wu, Yong Wang, Luonan Chen, Xiang-Sun Zhang: Protein Surface Cavities Clustering Based on Community Structure Feature of Pocket Similarity Network. 2008, *International Journal of Bioinformatics Research and Applications*, In press.
2. Zhi-Ping Liu, Ling-Yun Wu, Yong Wang, Xiang-Sun Zhang, Luonan Chen: Bridging Protein Local Structures and Protein Functions. 2008, *Amino Acids*, DOI: 10.1007/s00726-008-0088-8.
3. Qiang Han, Zhi-Ping Liu: Real-time Control for Intersections Based on Bus Priority in ITS. 2008, *Proceedings of the 7th World Congress on Intelligent Control and Automation*, 2008, pp.7657–7660, IEEE Press, USA.
4. Zhi-Ping Liu, Ling-Yun Wu, Yong Wang, Xiang-Sun Zhang, Luonan Chen: Analysis of the Protein Surface Patterns in the Systems Biology Framework. 2008, *Protein and Peptide Letters*, 2008, Vol.15(5): 448–455.
5. Zhi-Ping Liu, Ling-Yun Wu, Yong Wang, Luonan Chen, Xiang-Sun Zhang: Predicting Gene Ontology Functions from Protein's Regional Surface Structures. 2007, *BMC Bioinformatics*, 8:475.
6. Zhi-Ping Liu, Ling-Yun Wu, Yong Wang, Xiang-Sun Zhang, Luonan Chen: An Approach for Clustering Protein Pockets into Similar Groups. *Lecture Notes in Operations Research*, 2007, Vol.7, pp.204–212.
7. Qiang Han, Zhi-Ping Liu: Application of Graph Circular Coloring Theory on Optimal Design of Traffic Signal Phases. *Chinese Journal of Engineering Mathematics*, 2006, Vol.23(5), pp.775–779.
8. Zhi-Ping Liu, Qiang Han: A Six-phase Fuzzy Control Method for a Single Intersection in the City. *Computer Engineering and Applications*, 2004, Vol.40(22), pp.197–199.
9. Qiang Han, Zhi-Ping Liu, Jia-Zhuang Liu: On the Intelligent Control of Intersections in a City. *Systems Engineering*, 2004, Vol.22(6), pp.83–86.
10. Zhi-Ping Liu, Qiang Han: On the Traffic Optimal Modification and Intelligent Management. *Chinese Journal of Management Science*, 2004, Vol.12(SI), pp.546–550.
11. Zhi-Ping Liu, Jia-Zhuang Liu, Qiang Han: On the Hierarchical Fuzzy Control Systems of Traffic Signals. *Proceedings of the 13th Annual Conference of Systems Engineering Society of China*, 2004, pp.433–438. Global-Link Publisher, Hong Kong.
12. Qiang Han, Zhi-Ping Liu, Yun-Chen Liu: Six-phase Intelligent Traffic Control of a Single Intersection. *Journal of Shandong University (E)*, 2004, Vol.34(2), pp.117–121.

References

- Available upon request