DONG LI 李栋

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Education

2005–present **B.S. in Information Security**, School of Information Science and Technology, University of Science and Technology of China (USTC). 2005-2009 (expected).
GPA: 3.76/4.3 Rank 3/46

Research Interest

Mainly in Security and Privacy Issues: Cryptography, computer security, Secure Multi-party Computation, Key Management, Trust, Network Security, Computational Geometry,

Academic Experience

October,2007 - present **Member of Information Security Laboratory**, National High Performance Computing Center at Hefei, China.
Directed by Professor Liusheng Huang

- investigated basic Secure Multi-party Computation (SMC) protocols: secure comparison, oblivious transfer, dot product, etc.
- took charge of designing specific SMC protocols
- developed a secure and efficient approximate protocol and solved the privacy-preserving convex hulls problem

summer,2008 **Undergraduate Research Project**, in Information Security Laboratory, National High Performance Computing Center at Hefei, USTC.
Directed by Professor Liusheng Huang

My research was evaluted as $\mathbf{A}^+$ by the Committee.

- investigated the field of Secure Multi-party computational geometry
- developed an efficient protocol and solved the three-dimensional privacy-preserving convex hulls problem

April,2007-September,2007 **Member of Information Security Experimental Platform**, Department of Information Security, USTC.
Directed by Weihai Li

- analyzed the PE file format
- studied malicious software's characteristic behaviors and detecting techniques
- simulated the common behaviors(autorun, process hiding, release driver, process intruding etc.) of malicious softwares and countermeasures

Publications

[1] **Dong Li**, Liusheng Huang, Wei Yang, Youwen Zhu, Yonglong Luo, Lingjun Li, Zhili Chen. A Practical Solution for Privacy-preserving Approximate Convex Hulls Problem. *Proc. 2009 International Conference on Communications and Mobile Computing*. IEEE. Accepted

[2] **Dong Li**, Liusheng Huang, Wei Yang, Youwen Zhu, Yonglong Luo, Zhili Chen, Lingjun Li, Yun ye. A Practical Three-dimensional Privacy-preserving Approximate Convex Hulls Protocol. *The 2008 Japan-China Joint Workshop on Frontier of Computer Science and Technology*. IEEE. Accepted

[3] Huang LiuSheng, Song Fang, Yang Wei, Dong Fan, **Li Dong**, Zhu YouWen. Efficient and Robust Quantum Anonymous Transmission. *Submitted to Chinese Science Bulletin.*

[4] Youwen Zhu, Liusheng Huang, Wei Yang, **Dong Li**, Yonglong Luo, Fan Dong. Three New Approaches to Privacy-preserving Add to Multiply Protocol and Its Application. *Second International Workshop on Knowledge Discovery and Data Mining*, IEEE. Accepted

[5] Youwen Zhu, Liusheng Huang, Wei Yang, **Dong li**, Lingjun Li, Yonglong Luo, Fan Dong. Privacy-Preserving Approximate Convex Hulls Protocol. *International Symposium on Education and Computer Science (ECS2009)*, IEEE. Accepted

[6] Peng Meng, Liusheng Huang, Zhili Chen, Wei Yang, **Dong Li**. Linguistic Steganography Detection Based on Perplexity *International Conference on MultiMedia and Information Technology*, 2008. IEEE, Accepted

Honors and Awards

summer, 2008 Excellent Undergraduate Research Project Award

2008 Gong Weining Scholarship

March, 2008 Award of Successful Participant, American Mathematical Competition of Modeling (AMCM)

2007 Zhang Zongzhi Sci-Tech Scholarship

2006 Outstanding Student Scholarship Grade Three of USTC

2005 Outstanding Freshman Scholarship Grade Three of USTC

Computer Skills

programming C, C++, C#, Windows SDK, Python, HTML

scientific Matlab, Maple, Origin

typography LaTeX, MS Office

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