

## **Zhiping Zhou**

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### **Education:**

- East China University of Science And Technology, Shanghai, China, 2004-2007  
Ph.D. in *Control Theory and Control Engineering (Testing Technology and Automatic Equipment)*
- Jiangnan University, Wuxi, Jiangsu, China, 2001-2002, 2006(on the job)  
M.S. in *Computer Application Technology*
- Dalian Maritime University, Dalian, Liaoning, China, 1978-1982  
B.S. in *Automation*

### **Experience:**

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|--------------|---|
| 1996-Present | <i>Associate Professor</i><br>School of Communication and Control Engineering, Jiangnan University, China |
| 1994-1996    | <i>Software engineer</i><br>Wuxi Trade Center of Grain and Oil, Wuxi, Jiangsu, China                      |
| 1988-1994    | <i>Electrical engineer</i><br>Jiangsu Province Shipyard, Wuxi, Jiangsu, China                             |
| 1982-1988    | <i>Electrical engineer</i><br>JiangHai Shipyard, Nanjing, Jiangsu, China                                  |

### **Research Interests**

- Information hiding(steganalysis and watermarking)
- Cyber security and computer forensics
- Network risk assessment
- earlier research interests: Software design for real-time control system.

### **Teaching:**

to undergraduate students

- An Introduction to Cryptology
  - C Programming Language
  - Computer Aided Design
  - Computer Network
  - Information Hiding Technology
  - Numerical Methods
  - Software Engineering
- to graduate students**
- Cryptography and Information Security
  - Image Analysis and Pattern Recognition

## **Mentor:**

### **Graduate Students**

(School of Communication and Control Engineering, Jiangnan University)

'09	<i>Signal and Information Treatment</i>	3
	<i>Control Theory and Engineering</i>	1
'08	<i>Signal and Information Treatment</i>	3

### **Graduated**

'02-'07	<i>Signal and Information Treatment</i>	3
	<i>Control Theory and Engineering</i>	10

## **Projects:**

- 2010-2012 *Identification Modeling and Monte-Carlo Simulations for a Class of Complex Systems* (No. 60973043), granted by the National Natural Science Foundation of China; PI: Ding Feng, Participator: Zhou Zhiping.
- 2009-2011 *Method for Digital Design of High Performance Brushless DC Motor*, granted by the Jiangsu Province Office of Education, China.
- 2005-2007 *The Research of Control Strategy for High Performance Brushless DC Motor* (No. BG 2005014), granted by the High-tech Research Plan in Jiangsu Province, China; PI: Ji Zhicheng, Participator: Zhou Zhiping.
- 2002-2006 *Application of Bluetooth Technology in the Electric Appliances* (No. 03085), granted by the Key Research Project of Chinese Ministry of Education, China.

## **Publications:**

### **Journal Articles**

- [1]. Zhou Zhiping, Wu Huijun. Iris recognition algorithm combining wavelet transform and Log-Gabor filter. *Journal of Computer Applications*, 2009, 29(8):2095-2097. (in Chinese)
- [2]. Zhou Zhiping, Sun Ziwen, Wu Zhijian. Steganalysis for JPEG images based on L-M algorithm. *Computer Engineering and Applications*, 2009, 45(14):113-115,127. (in Chinese)

- [3]. Zhou Zhiping, Hui Maomao, Zhang Biao, Sun Ziwen. Searching the stego-key for F5 algorithm. *Journal of Information and Computational Science*, 2008, 5(4): 1819-1825.
- [4]. Zhou Zhiping, Kang Hui, Lin Jiajun, Ji Zhicheng. A LSB Steganalysis Algorithm Based on Image Wavelet Detail Information. *Journal of Image and Graphics*, 2008, 13(6):1090-1093. (in Chinese)
- [5]. Zhou Zhiping, Zhou Lihua. FPGA Realization of Steganalytic Algorithm Against F5. *Computer Engineering*, 2008, 34(17):153-157. (in Chinese)
- [6]. Zhou Zhiping, Sun Ziwen, Lin Jiajun. An Image Steganalysis Based on Predictive Coding. *Journal of East China University of Science and Technology (Natural Science Edition)*, 2007,33(6):870-873. (in Chinese)
- [7]. Zhou Zhiping, Kang Hui. Steganalysis Based on Features for Color Images. *Computer Engineering and Applications*, 2007, 43(7): 87-89. (in Chinese)
- [8]. Zhou Zhiping, Zhang Biao, Ji Zhicheng. Steganalysis and the Realization Elements Using Hardware. *Microelectronics & Computer*, 2007, 24(2):202-205. (in Chinese)
- [9]. Zhou Zhiping, Lin Jiajun, Wang Yongzhi. Research on Algorithm of Steganography Based on Palette Image. *Journal of East China University of Science and Technology (Natural Science Edition)*, 2006, 32(12):1487-1490. (in Chinese)
- [10].Zhou Zhiping, Kang Hui, Ji Zhicheng. A New Image Steganography Based on Pseudo Random Number. *Journal of Image and Graphics*, 2006, 11(10):1405-1408. (in Chinese)
- [11].Zhou Zhiping, Wang Yongzhi, Ji Zhicheng. A Steganalysis Method for EzStego. *Journal of Image and Graphics*, 2006, 11(9):1317-1321. (in Chinese)
- [12].Zhou Zhiping, Xia Juan, Wang Yongzhi, Lin Jiajun. An Approach of System Model Design Based on UML Real-time Extends. *Computer Engineering & Applications*, 2006, 42(11):48-51. (in Chinese)
- [13].Zhou Zhiping, Xia Juan. Study on Algorithm for Motion Control System Based on Neural Network. *Computer Engineering and Applications*, 2006, 42(3):205-208,211. (in Chinese)
- [14].Zhou Zhiping, Wang Yongzhi, Chen Yabing. Application and Research of Information Appliance Monitoring and Control System Based on Internet. *Microcomputer Information*, 2006, 22(3): 128-130,181. (in Chinese)
- [15].Zhou Zhiping, Wang Yongzhi. Steganalysis of images created by middle frequency pair quantization in wavelet domain. *Dynamics of Continuous Discrete and Impulsive Systems-Series B-Applications & Algorithms*, 2006, 13 part 3(s): 1047-1050.
- [16].Zhou Zhiping, Xia Juan. Online simulation based on dspace in electric drive control system. *Dynamics of Continuous Discrete and Impulsive Systems-Series B-Mathematics Analysis*, 2006, 13, part4 (s):2031-2038.
- [17].Zhou Zhiping, Chen Yabing. Implementation and Design of Motion Control Chip Based on FPGA. *Microelectronics & Computer*, 2005, 22(9):110-113,116. (in Chinese)
- [18].Zhou Zhiping, Xia Juan, Ji Zhicheng, Lin Jiajun. Analysis and Comparison of Real-time System Design Strategies Based on UML. *Computer Engineering*, 2005, 31(13):99-101. (in Chinese)

## Conference Papers

- [1]. Zhou Zhiping, Hui Maomao. Steganalysis for Markov Feature of Difference Array in DCT Domain. *The Sixth International Conference on Fuzzy Systems and Knowledge Discovery*,

- FSDK 2009, p581-584. Tianjin, China, 14–16 August 2009.
- [2]. Zhou Zhiping, Hui Maomao, Sun Ziwen. An Iris Recognition Method Based on 2DWPCA and Neural Network. The 2009 Chinese Control and Decision Conference, CCDC 2009, p2368-2371. Guilin, China, 17–19 June 2009.
  - [3]. Zhou Zhiping, Wu Huijun, Lv Qianxing. A new iris recognition method based on Gabor wavelet neural network. Proceedings - 4th International Conference on Intelligent Information Hiding and Multimedia Signal Processing, IIH-MSP 2008, p1101-1104, Harbin, China, Aug 15-17, 2008.
  - [4]. Zhou Zhiping, Zhou Lihua. A novel algorithm for robust audio watermarking based on quantification DCT domain, Proceedings - 3rd International Conference on International Information Hiding and Multimedia Signal Processing, IIHMSP 2007, p441-444, Kaohsiung, Taiwan, Nov 26-28, 2007.
  - [5]. Lv Qianxing, Zhou Zhiping, Ji Zhicheng. Classifying method of iris image based on wavelet packet and neural network, Proceedings of the 26th Chinese Control Conference, CCC 2007, p580-583, Zhangjiajie, China, Jul 26-31, 2007. (in Chinese)
  - [6]. Zhou Zhiping, Han Feng, Kang Hui, Sun Ziwen. Research on benchmarking system for steganalysis algorithm, PROCEEDINGS OF THE 2007 CHINESE CONTROL AND DECISION CONFERENCE, p263-266, Wuxi, CHINA, JUL 03-06, 2007. (in Chinese)
  - [7]. Wu ZhiJian, Zhou Zhiping, Zhang Biao, Sun Ziwen. Research on steganalysis for frequency domain based on prediction of DCT coefficients, p321-324, Wuxi, CHINA, JUL 03-06, 2007. (in Chinese)
  - [8]. Zhou Zhiping, Sun Ziwen, Kang Hui, Ji Zhicheng, Steganalysis for quantization index module hiding scheme based on Guassian distribution, IEEE International Conference on Control and Automation, ICCA 2007, p1591-1593, Guangzhou, China, May 30-Jun 1, 2007.
  - [9]. Zhou Zhiping, Ji Zicheng, Wang Yongzhi, Lin Jiajun., A new algorithm of steganography based on palette image, 1st IEEE Conference on Industrial Electronics and Applications, ICIEA 2006, Singapore, May 24-26 2006.

### **Patents:**

- *The Experimental Device for Process Control*. China Patent ZL02219229.8

### **Awards and Honors:**

- Ministerial Science and Technology Progress Award, China National Light Industry Council, China, 2008
- Municipal Science and Technology Progress Award, Wuxi Municipal People's Government, China, 2003
- Excellent Teacher, Jiangnan University, China, 2003
- Municipal Excellent Young Scientist in Wuxi, China, 2000
- Provincial Science and Technology Progress Award, Jiangsu, China, 1998