Yating ZHU

- **(+86) 1581-0757-266**
- **my19900921@126.com**
- **Beihang University Xueyuan Road No.37, HaiDian District, Beijing**
- **Software Development Engineer**

Education

- Beihang University   Master of Engineer
  Major: Computer Simulation   *2012.09 - 2015.03*
  GPA:89.53/100, Rank: 15/171（<9%）

- Wuhan University of Technology   Bachelor of Engineer
  Major: Automation   *2008.09 - 2012.06*
  GPA:89.95/100, Rank: 7/271（<3%）

Skills

- Programming   Familiar with **C/C++**, **MFC** and SQL Server, experience in **Windows socket** programming
  Know about Linux Development environment and **shell script** with tools such as **Vim**, G++, gdb
- Algorithms   Good command of various **data structure and algorithms design**
  grasp **Machine Learning** algorithms(**Support Vector Machine**, Native Bayes, decision tree)
  grasp basic **Intelligent Optimization Algorithms**(Genetic Algorithm, Particle Swarm Optimization)
- Network   Familiar with **TCP/IP protocol family**
- English   Pass CET4/6，proficient in both reading and writing working English
- others   Familiar with office software like Word, Excel, PPT, Visio

Projects

- The development of chatting software based on UDP/TCP protocol   *2012.10 – 2012.12*

  Project Description: a instant messaging tool in the LAN
  - → Develop UDP/TCP protocol on both the server side and client side with C/S structure
  - → Complete full duplex communication between the server side and client side with **multi-thread**
  - → Complete instant messaging function using **Windows Sockets** technique

- Research on locomotion mode classification of artificial limb using a wearable capacitive sensing system   *2013.03 - 2013.07*

  Project Description: Artificial limb based on wearable capacitive sensing system provides a homodromous force for helping the disabled to walk comfortably. Locomotion mode classification tells artificial limb which direction the force should point.
  - → Design four classifications (**SVM**, **BP**, **C4.5**, **Native Bayes**) with C++, and analyze the different performance of classifications in locomotion mode recognize

→ Optimizing **Support Vector Machine** with **Genetic Algorithm** by selecting suitable **kernel function** and optimizing the parameters, which makes the recognition accuracy increase to 99%

◆ Virtual channel schedule modeling and optimizing for communication operation in space station   *2013.08 - 2014.02*

Project Description: Multiple classes of communication data through space/ground, ground/space, and space/space data links is increasing. We build a new model describing the process of communication through space/ground and give an optimal solution.

→ Build the virtual channel schedule model and solve it by **Genetic Algorithm**, **Particle Swarm Optimization** and non-dominated sorting genetic algorithms Ⅱ (**NSGA2**) written in C++

→ Design and develop the verification platform with MFC framework

→ Guide an undergraduate to finish his diploma project

◆ Software development engineer in test (Internship in sina weibo)   *2014.07 - 2014.08*

Internship Description: Test interfaces of message box and group chat in Weibo

→ Design and write testing cases about interfaces of group chat according to product demand

→ Be a member of designing and developing **automatic testing system**, and use **shell** to test part of interfaces of group chat

Publication

[1]. **Yating Zhu** et al. A Review of Methods in Fault Classification for Control System. CINT'13, Wuxi, China (May 2013)

[2]. **Zhu, Y.T.**, Wan, P., Chen, Y. Tao, F. Zhang, L.: Modeling and Solution for Virtual Channel Scheduling for Downlink Business. In: the 14th Asia Simulation Conference (October 2014)

[3]. Song, Y., **Zhu, Y.T.** et al.: Classifier Selection for Locomotion Mode Recognition Using Wearable Capacitive Sensing Systems. In Proc. of the International Conference on Robot Intelligence Technology and Application (2013)

Certification and Awards

◆ 2010.09   First Tier Fellowship
◆ 2010.10   1st prize in Robotics Competition in Wuhan university of technology
◆ 2011.06   Four grade network engineer certificate in National Computer Rank Examination
◆ 2011.09   First Tier Fellowship
◆ 2011.12   Excellent Graduates
◆ 2013.06   First Tier Fellowship for postgraduate
◆ 2014.03   The intermediate Software development engineer certificate

Self-assessment and hobbies

◆ Excellent communication skills and high sense of team spirit
◆ Good at analyzing and solving the problem independently
◆ Full of enthusiasm and have the courage to challenge
◆ Play piano and sketch, football fans