

Denggao Yu

Curriculum Vitae

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Education

- 2013–Present **MS in Signal and Information Processing, Supervisor: Prof. Yongming Huang,**
School of Information Science and Technology, Southeast University.
- 2009–2013 **BA in Information Engineering, School of Electronic and Information Engineering,**
Nanjing University of Aeronautics and Astronautics.

Internship

- 2013–present **Assistant R&D Engineer at ZTE Wavetone, Protocol and Algorithm Research De-**
partment.
Designed and implemented related algorithms of PHY and MAC layer for IEEE 802.11aj project.

Community

- Blog **<http://riden001.com>, My personal blog (Chinese).**
- GitHub **<https://github.com/Riden001>.**
- Job Bole **<http://www.jobbole.com/members/riden/activity/>, Member of Trans-**
lation Team.

Project Experience

- 2013–present **IEEE 802.11aj Project, Parallel computing, Matlab, Wireless Communication, WLAN,**
Startup Project.
Working with Bo Wu, Shimin Ma, Post-doc. Shiwen He, Prof. Yongming Huang, and etc.
IEEE 802.11aj is the first IEEE wireless protocol of China, aimed at improving the transmission rate of the new generation WLAN communication system. I have been working as a Assistant R&D Engineer in IEEE 802.11aj project, and responsible for designing and implementing most algorithms of the physical layer and part design of the MAC layer, including the modulation and demodulation modules, encoding and decoding modules, equalization and detection modules, parallel algorithm design for complex matrix inversion and matrix multiplication and etc.
- 2012–2013 **Radarx, C++, MFC, OpenGL, Research Project.**
Working with Mingming Wang, Sirui Zhang, Yingyuan Zhang and Prof. Minghai Pan.
Radarx is aimed at developing a complete platform on which user could make radar simulation according to different application scenarios. We develop this software based on MFC and OpenGL, which provide a friendly UI. And based on OpenGL framework, it could simulate three-dimensional environments. I was the major contributor of this project, my work including designing and developing the UI, and realize the OpenGL module. Because of its innovation, our project obtained 2000 ¥ innovation award of the school.

- 2011 **Tankx**, *C++*, *AI game engine*, Independent Project.
In collaboration with Mingming Wang and Long Wang.
Based on the AI game engine, we developed several avoiding and attacking algorithms for our Tanks, then battled with other teams.
- 2010 **Smith**, *C++*, *MFC*, Independent Project.
A desktop application which could calculate the smith circle parameters according to input. It's applied as a teaching tool by our teacher.
- 2010 **Sudoku**, *C++*, Independent Project.
A simple application used to solve sudoku problem with a simple MFC UI.

Publications

- 2014 **Denggao Yu**, Zhaohua Lu, Shiwen He, Bo Wu, Yongming Huang, Lvxi Yang, *Low Complexity Complex Matrix Inversion Method for MIMO Communication Systems*, (ChinaSip 2015).
- 2014 Shiwen He, **Denggao Yu**, Yongming Huang, Haiming Wang, Lvxi Yang, *Chinese Patent: A low complexity fast parallel matrix inversion method*, Patent No. 201410495246.0.
- 2014 Shiwen He, **Denggao Yu**, Yongming Huang, Haiming Wang, Lvxi Yang, *Chinese Patent: A hardware device for parallel matrix inversion*, Patent No. 201410621516.8.
- 2014 Yongming Huang, **Denggao Yu**, Shiwen He, Haiming Wang, Lvxi Yang, *Chinese Patent: A location aware based load balancing method for WLAN system*, (In applying).

Awards

- 2014 **Most Excellent Intern of ZTE Wavetone Science and Technology Ltd.**
- 2013 **Second Prize in National Postgraduate Mathematic Contest in Modeling.**
- 2013 **First Prize in Basketball Competition of Southeast University.**
- 2013 **Excellent Minister of Postgraduate Student Union of Southeast University.**
- 2012 **Second Grade Scholarship for Graduates of NUAA.**
- 2011 **Third Prize in NUAA Program Competition.**
- 2010 **Merit Student of NUAA.**

Skills

- Languages **C++=Matlab>MFC=OpenGL.**
- English **CET-6 514**, *fluent in spoken and written English, also a translator of IT community Bole Job.*
- Games **NBA 2K (Career Mode).**