JINGLI SHI

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RESEARCH INTEREST

I have developed a particular interest in the Artificial Intelligence technology (Machine Learning, Deep Learning and Text Mining) during pursuing master degree at NUS, in which I would be really interested and love to advance my understanding of the period further through PhD study.

EDUCATION

M.S. National University of Singapore (NUS), Singapore 2017 - 2019
Master of Technology (MTech.) Software Engineering

M.S. Shenzhen University, China 2011 - 2014
College of Computer Science and Software Engineering
Master of Technology of Computer Application
Thesis: "The Research and Application of Tensor Voting Algorithm on Enhancement and Feature Point Extraction of Lung Image"
Advisor: Prof. Xuan Yang

B.S. Guangdong University of Petrochemical Technology, China 2006 - 2010
Minored in Information & Computer Science

HONORS AND AWARDS

CAAS DG Award 2019
Civil Aviation Authority of Singapore (CAAS) DG Award is for involved project named Vessel Height Measurement System (VHMS IV) which is enhancing safety and efficiency through innovation.

Scholarship from the National inspirational 2008
The scholarship grants to two students who excel academically in the college.

Excellent Student Award 2006 - 2010
The award is for students with outstanding (first class) academic results in current semester.

COURSE AND RESEARCH

NUS, Singapore 2017 - 2019
Even my major is software engineering, I am really interested in AI (Artificial Intelligence). So, I choose many courses related to it, such as, Computational Intelligence, Machine Learning, Text Mining and Sense Making and Insight Discovery, etc. Two of assignment paper

are elected as candidate papers to be published, both of which are related to deep learning algorithm.

Shenzhen University, China 2011 - 2014
As a member of National Natural Science Foundation Program (No. 60972112), my responsibility is to study and analysis medical image processing algorithms and proposed a method to enhance vessel and extract vascular bifurcations in 3D lung CT image. I also was involved in some work of publishing papers in ICMIA, BMC.

WORKING EXPERIENCE

National Computer Systems (NCS), Singapore 2016 to Present
Senior System Engineer

- Analyze, design, develop and maintain project Vessel Height Measurement System (VHMS IV), which awarded CAAS DG Award 2019.
- Architect solutions for hardware testing (e.g. camera, PTU, serial device server, etc.)
- Conduct user acceptance test, reliability acceptance test and user training.
- Provide continuous maintenance and support before final delivery.

Excelpoint Technology Ltd., Singapore 2015 - 2016
R&D Engineer

- Design and develop firmware software using C language for Bluetooth product (HP ROAR TRAVEL and HARMAN JBL WIRELESS UA HRM).
- Design and develop PCB test tools using C++ and Python.
- Conduct Bluetooth product feature testing.

PUBLICATIONS

[1]. Dan Ai, **Jingli Shi**, Junjun Cao, Hongyan Zhong. Multi-Modal Medical Image Registration by Combining Improved MeanShift and RPM Systems. Applied Mechanics and Materials. Vols. 239-240 (2013) pp 1472-1475, 201.

[2]. Xuan Yang, Jihong Pei, **Jingli Shi**. Image registration using consistent robust point matching. Proc. IEEE International Conference on Bioinformatics and Biomedicine 2013: 273–278.

(under-publish)

[3]. Jingli Shi, Tsan Yeesoon, Hu Mengxi, Chetna Gupta, Zhao Liu. A Novel Feature Selection Approach Integrating XG-Boost Algorithm with Artificial Bee Colony Metaheuristic Methods on Human Activity Recognition Dataset.

[4]. Jingli Shi, Yinghua Qu, John Chua, Jing Tian, Matthew Chua. Automatic Quantitative Analysis of Brain Organoids via Deep Learning.