Hang Wang

wanghang@mail.ustc.edu.cn · (+86) 155-5548-8370 · Hang's Homepage

Education

University of Science and Technology of China (USTC), Hefei, China 2014 – 2018

B.S. Automation, **Honored Program** in Information Science and Computer Science
G. P. A. 3.6/4.3(rank 7/94)

Twente University, Enschede, Netherlands June, 2017 – Oct, 2017

CSC Research Internship in Biomedical Signals and Systems(BSS)

Research Interest

Data Mining and Knowledge Discovery, Bioinformatics, Business Intelligence/Analytics

Publication

- Dual-layer Strengthened Collaborative Topic Regression Modeling for Predicting Drug Sensitivity (**Hang Wang**, Jianing Xi, Minghui Wang, Ao Li, 2017), Under Review, *IEEE/ACM Transactions on Computational Biology and Bioinformatics*(TCBB), available here.
- One Inertial Sensor Based Upper Extremity Usage Measurement and Standard (**Hang Wang**, Mohamed Irfan Mohamed Refai, B. J. F. van Beijnum, 2017), Submitted, *IEEE Transaction on Neural Systems and Rehabilitation Engineering*(TNSRE), research thesis is available here and paper is available here.
- *the 12th International Society of Physical and Rehabilitation Medicine*, BSS group invited, 2018, Paris, France, details here

Experience

PRECISION MEDICINE RECOMMENDER SYSTEM, HI lab, USTC Feb, 2017 – Present

National Natural Science Foundation Program Supervisor: Prof. Li Ao

- design a PGM model to integrate multi-source information
- establish a novel bayesian-based collaborative topic regression model
- develop a variational EM algorithm to learn the maximum a posterior estimates
- validate and compare the efficiency on GDSC public data set.

DATA FUSION FOR ARM REHABILITATION SYSTEM June, 2017 – Sept, 2017

Netherlands National Project: NeuroCIMT Surpervisor: Dr.ir. B. J. F. van Beijnum

- kinematics modeling for patients with central neurological disorders.
- put forward a novel processing structure to measure the arm usage.
- pattern recognition for the motion types through statistics learning.

ELECTRONIC and ROBOT DESIGN CONTEST Jun, 2015 – Oct, 2016

Talent Program in USTC Supervisor: Mr. Alberto (Hackaday project, Spain)

1st Prize(1/13), video available here

- optimize the filtering algorithm for the stability of the four-rotor aircraft.
- design Microcontroller Unit(MCU & FPGA) by using Altium Designer.
- adjust the control core-syetem for self-reconfigurable robot.

MACHINE LEARNING THEORETICAL TRAINING Sept, 2016 – Feb, 2017

MOE-Microsoft key lab, USTC Supervisor: Prof. Zha Zhengjun

- conventional CNN model and mnist trial on caffe, GAN trial with Tensorflow
- two person zero-sum game and convex optimization theory.

♡ Honors

Hornable Degree in School of Information Science and Technology	Talented program, 2017
The Silver Prize Scholarship	Top 10%, 2017
University-level excellent League leader	Top 5%, 2016
University-level excellent League member	Top 5%, 2015
Excellent leader of the Student Union	Outstanding leadership, 2015
Shanghai Institute of Microsystem and Information Technology Scholarship	Top 5%, 2015
Chen Guilin leadership scholarship	Outstanding leadership, 2015
Scholarship for Outstanding Fresher	2014

i Extracurriculum Events

Principles of Automatic Control	Teaching assistant, 2017
Comprehensive Affair Office of the *USTC Student Union*	Director, 2016–2017
USTC Alumni Forum	Outstanding volunteer, 2016
Go Abroad from USTC Handbook	Editor, 2015
General affairs in class 3	Commissary, 2014–present
Interest group on *Quantum Communication*	Group leader, 2014–2015
Chinese amateur violin certificate, level 8	Amateur violinist, 2012

Skills

Machine languages: C, C++, R, Python, Java, HTML, SQL, Matlab, LaTeX, Verilog
Human languages: Native Chinese, Fluent English, Simple Dutch, Simple Japanese

Related Courses

Course	Type	Score	Course	Type	Score
Function of Complex Variable	Math	A	Fundamental signal and Image Processing	CS	A+
Equation of Mathematical Physics	Math	A	Data structure and Algorithm	CS	A
System Identification	Math	A+	Operating System and Database	CS	A
Mathematical Analysis B1	Math	A-	Fundamentals of Computer Control	CS	A+
Fundamentals of Operations Research	Math	A-	Computer programming	CS	A-
Stochastic Processing	Math	A	Modern Control Theory	EE	A+
Lineal Algebra	Math	A-	Signals and Systems	EE	A-
Fundamentals of Electronic System Design	EE	A-	Sensor principle	EE	A+
Principles of Automatic Control	EE	A	Basic Circuit Theory	EE	A-
Digit logic Circuit	EE	A	Electromagnetism(C)	EE	A-

Referee

Prof. Ao Li aoli@ustc.edu.cn
Prof. Yong Wang yongwang@ustc.edu.cn
Prof. Bert-Jan van Beijnum b.j.f.vanbeijnum@utwente.nl

——-Thank you for your time and consideration——-