Yan Zhou

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Github: https://github.com/zhouyanasd

Research Interests

Currently:

- Neural Computing, Brain-like Computing, Neural Plasticity
- Neural Architecture Search, Evolutionary Computing
- Machine Learing, Unsupervised Learning, Time-series Data Classification

Past:

- Participatory Sensing, Wireless Sensing Network, Opportunistic Network

Publications

- **Yan Zhou**, Yaochu Jin and Jinliang Ding, "Evolutionary optimization of liquid state machines for robust learning", International Symposium on Neural Networks, Moscow, Russia, July 10-12, 2019.
- Xingyou Xia, **Yan Zhou**, Jie Li and Ruiyun Yu, "Quality-Aware Sparse Data Collection in MEC-Enhanced Mobile Crowdsensing Systems," in IEEE Transactions on Computational Social Systems, 2019.
- Ruiyun Yu, Xingyou Xia, **Yan Zhou**, "Compressed Sensing based Cooperative Data Gathering Algorithm in Crowdsensing Systems", The 15th IEEE International Conference on Ubiquitous Intelligence and Computing(UIC 2018, CCF C), 2018.(EI)
- Ruiyun Yu, **Yan Zhou**, "Compressed Sensing Based Data Acquisition Algorithm in Participatory Sensing System", Journal of Northeastern University(Natural Science), 2015.(EI)
- Ruiyun Yu, Xingyou Xia, Jie Li, **Yan Zhou**, Xingwei Wang, "Social-Relationship-Based Mobile Node Location Prediction Algorithm in Participatory Sensing Systems", Chinese Journal of Computers, 2015.(EI)
- Li Jie, Wang Xingwei, Ji Jie, Wang Pengfei, **Zhou Yan**, Zhao Zhijie, "Location-Prediction based Data Dissemination using Swarm Intelligence in Opportunistic Cognitive Networks", Mathematical Problems in Engineering, 2014.(SCI)

Awards

- Excellent Northeastern University Postgraduate Student Award, 2013.
- Excellent Northeastern University Master's Thesis Award, 2015.

Technical Skills

- Programming : **Python**, **C/C++**, **MATLAB**, JAVA, LaTeX
- Libraries : **Numpy**, **Scipy**, **Pandas**, **Matplotlib**, **Brian2**, Theano, Tensorflow, NS3, Django, Struts2
- Operating Systems : Windows, Linux(Ubuntu), MacOS, Esxi(vmware)
- Development Tools : Pycharm, Eclipse, Jupyter, Mysql, Git, Tomcat

Language

- English: CET 6

Education

Northeastern University *since Sep. 2016*
Ph.D candidate in Control theory and Control Engineering
State Key Laboratory of Syanthetical Automation for Process Industries(SAPI)
Research Directions : Neural Computing & Spiking Neural Network & Neural Plasticity
Supervisor: Yaochu Jin

Northeastern University *Sep. 2012 - Jan. 2015*
M.S. in Software Engineering
Research Directions : Participatory Sensing & Opportunistic Network

Northeastern University *Sep. 2007 - Jul. 2011*
B.S. in Automation

Work Experience

Northeastern University *Jul. 2011 - Jul. 2016*
Assistant Engineer
Web application design & development & maintain
Server maintenance
Network infrastructure maintenance

Projects

National Natural Science Foundation of China *Jan. 2016 - Dec. 2020*
Design and Development of web application system, in charge of the Database API.
Research on the Theory and Implementation Technology of Global Collaborative Optimization Operation in Refinery Production Process(No. 61590922)

National Natural Science Foundation of China *Jan. 2013 - Dec. 2016*
Investigate on data acquisition and transmission strategy.
Research on Crowdsourcing-based Dynamic Community Creation Methods in Participatory Sensing Systems(No. 61272529)

Fundamental Research Funds for the Central Universities *Jan. 2013 - Dec. 2014*
Investigate on data acquisition and transmission strategy.
Research on Reputation Evaluation and User Incentive Schemes in Participatory Sensing Systems(No. N120417002)

School of continuing education, Northeastern University *Jan. 2014 - Jun. 2015*
Design and Development of web application system.
An online Enrollment Examination System.

School of continuing education, Northeastern University *Jan. 2012 - Jun. 2013*
Design and Development of web application system.
An online Education and Training System.