

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
- Multi-task Machine Learning, Time-series Data Classification

✍ Publications

- [Yan Zhou](#), Yaochu Jin and Jinliang Ding, "Brain-inspired Modular Reservoir based on Spiking Neurons for Multi-task Learning". (Preparing Manuscript)
- [Yan Zhou](#), Yaochu Jin and Jinliang Ding, "Surrogate-Assisted Cooperative Co-evolutionary Reservoir Architecture Search for Liquid State Machines", IEEE Transactions on Emerging Topics in Computational Intelligence, 2023.(SCI)
- Cheng Tang, Junkai Ji, Qiuzhen Lin and [Yan Zhou](#), "Evolutionary Neural Architecture Design of Liquid State Machine for Image Classification," ICASSP 2022 - 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022. (EI)
- [Yan Zhou](#), Yaochu Jin and Jinliang Ding, "Surrogate-Assisted Evolutionary Search of Spiking Neural Architectures in Liquid State Machines ", Neurocomputing, 406: 12-23, 2020. (SCI, Q1)
- [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. (EI)
- 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.

Education

Northeastern University

since Sep. 2016

Ph.D candidate in Control theory and Control Engineering

State Key Laboratory of Syantheical 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

☆ Speech & Conference Activities

16th International Symposium on Neural Networks

9 Jul. 2019 - 12 Jul. 2019, Moscow

Paper Presentation

Title: Evolutionary optimization of liquid state machines for robust learning

IEEE WCCI 2022

Mar. 2020

Reviewer

Nine assignment conference papers

IEEE CEC 2020

Mar. 2020

Reviewer

Three assignment conference papers

GECCO 2019, 2020, 2021, 2022

Feb. 2019, 2020, 2021, 2022

PC Member

Four assignment conference papers

☆ Journal Paper Reviewer

- IEEE Transactions on Neural Networks and Learning Systems
- IEEE Transactions on Emerging Topics in Computational Intelligence
- IEEE Transactions on Cognitive and Developmental Systems
- Soft Computing

Employment

Northeastern University

Jul. 2011 - Jul. 2016

Assistant Engineer

Web application design & development & maintain

Server maintenance

Network infrastructure maintenance