Zhi WANG (王志)

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RESEARCH INTERESTS

I'm interested in reinforcement learning (RL), machine learning, and robotics. Specifically, I work on how learning algorithms can scale RL agents to dynamic environments, allowing them to autonomously adapt to the non-stationary task distributions in real-world domains. This includes a wide range of topics such as incremental learning, online learning, continual learning, lifelong learning, transfer learning, model-based learning, and meta-learning.

WORK EXPERIENCE

2019– Assistant Professor, Department of Control and Systems Engineering,
School of Management and Engineering, *Nanjing University*

2019 Junior Visiting Research Fellow, School of Engineering and Information Technology,
University of New South Wales, Canberra

2018 Research Intern, Natural Language Processing Group, *Tencent AI Lab*

EDUCATION

Ph.D. Department of Systems Engineering and Engineering Management,
City University of Hong Kong, 2015 – 2019

B.E. Department of Control and Systems Engineering, School of Management and Engineering,
Nanjing University, 2011 – 2015

PUBLICATIONS

Journal Articles (* Corresponding Author)

2019 **Zhi Wang**, Han-Xiong Li*, and Chunlin Chen, "Incremental reinforcement learning in continuous spaces via policy relaxation and importance weighting," *IEEE Transactions on Neural Networks and Learning Systems*.

2019 **Zhi Wang**, Chunlin Chen*, Han-Xiong Li, Daoyi Dong, and Tzyh-Jong Tarn, "Incremental reinforcement learning with prioritized sweeping for dynamic environments," *IEEE/ASME Transactions on Mechatronics*.

2019 **Zhi Wang**, Han-Xiong Li*, and Chunlin Chen, "Reinforcement learning based optimal sensor placement for spatiotemporal modeling," *IEEE Transactions on Cybernetics*.

2019 **Zhi Wang**, Han-Xiong Li*, "Dissimilarity analysis based multimode modeling for complex distributed parameter systems," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*.

2018 **Zhi Wang**, Han-Xiong Li*, "Incremental learning for online modeling of distributed parameter systems," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*.

Conference Papers

2019 **Zhi Wang**, Wei Bi, Yan Wang, and Xiaojiang Liu, "Better fine-tuning via instance weighting for text classification," in *Proceedings of the AAAI Conference on Artificial Intelligence*.

2019 **Zhi Wang**, Han-Xiong Li, "Incremental learning based subspace modeling for distributed parameter systems," in *Proceedings of the International Joint Conference on Neural Networks (IJCNN)*.

2016 **Zhi Wang**, Chunlin Chen, Han-Xiong Li, Daoyi Dong, and Tzyh-Jong Tarn, "A novel incremental learning scheme for reinforcement learning in dynamic environments," in *Proceedings of the World Congress on Intelligent Control and Automation (WCICA)*.

INVITED TALKS

2019.04 "Incremental reinforcement learning for dynamic environments,"
School of Engineering and Information Technology, University of New South Wales, Canberra

2018.10 "Learning based intelligent modeling for distributed parameter systems,"
School of Management and Engineering, Nanjing University

SERVICE

Journal Peer Review

IEEE Transactions on Neural Networks and Learning Systems

IEEE Transactions on Cybernetics

IEEE Transactions on Systems, Man, and Cybernetics: Systems

REFERENCES

Dr. Han-Xiong Li — *Professor*, Department of Systems Engineering and Engineering Management, City University of Hong Kong

Dr. Chunlin Chen — *Professor, Department Head*, Department of Control and Systems Engineering, School of Management and Engineering, Nanjing University

Dr. Daoyi Dong — *Associate Professor*, School of Engineering and Information Technology, University of New South Wales, Canberra

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