# 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

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*

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