

Han Xinyu



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Employment

2022/12-Now

Lecturer

School of Artificial Intelligence

Nanjing University of Information Science and Technology, Nanjing, China

Education

2021/03-2022/04

Joint PhD candidate

School of Science

National University of Singapore, Singapore

Research filed: Deep learning models and their interpretability

Supervisor: Prof.Hui Ji

2018/03-2022/12

Doctor of Science

School of Science

Harbin institute of Technology (Shenzhen), Shenzhen, China

Research filed: Deep learning models and their interpretability

Supervisor: Prof.Yi Zhao

2015/09-2017/02

Master of Science

School of Science

Harbin institute of Technology (Shenzhen), Shenzhen, China

Research filed: Complex network and nonlinear dynamical system

Supervisor: Prof.Yi Zhao

2011/09-2015/07

Bachelor of Science

School of Science

Guizhou University, Guiyang, China

Research filed: Stochastic Process

Supervisor: Prof.Yao Hu

Language skills

Native Mandarin, Excellent English (IELTS-7)

Professional skills

Python, Matlab, R and Skilled user of Microsoft® office

Honors&Awards

Young Scientist Participant (Hong Kong Laureate Forum, 2023.11);

National scholarship for Postgraduates (china scholarship council, 2017.10);

Papers

1. **Han X**, Zhao Y. Interpretable Graph Reservoir Computing with the Temporal Pattern Attention[J]. IEEE Transactions on Neural Networks and Learning Systems, 2022.
2. **Han X**, Zhao Y, Small M. A Tighter Generalization Bound for Reservoir Computing[J]. Chaos: An Interdisciplinary Journal of Nonlinear Science, 2022, 32:043115.
3. **Han X**, Zhao Y. Reservoir Computing Dissection and Visualization Based on Directed Network Embedding[J]. Neurocomputing, 2021, 445: 134-148.
4. **Han X**, Zhao Y, Small M. Revisiting the Memory Capacity in Reservoir Computing of Directed Acyclic Network[J]. Chaos: An Interdisciplinary Journal of Nonlinear Science, 2021, 31(3):033106.
5. **Han X**, Zhao Y, Small M. Identification of Dynamical Behavior of Pseudoperiodic Time Series by Network Community Structure[J]. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66(11): 1905-1909.
6. Chen Y, Zhao Y, **Han X**. Spectral Properties of Hypercubes with Applications[J]. Journal of Computational and Applied Mathematics, 2021, 394: 113550.

Grants

1National Natural Science Foundation of China, Principal Investigator, 1/2025-12/2027