Xi Wang

PERSONAL DETAILS

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Address	J04 Rose Street Building
	Australian Centre for Field Robotics
	University of Sydney
	NSW, Australia, 2008

EDUCATIONAL BACKGROUND

Australian Centre for Field Robotics, University of Sydney 2022-2023
Postgraduate visiting student
  Supervisor: Professor Guodong Shi

Academy of Mathematics and Systems Science, Chinese Academy of Sciences 2018-now
Phd candidate in Operational Research and Cybernetics
  Supervisor: Professor Yiguang Hong

University of Chinese Academy of Sciences 2014-2018
B.Sc in Mathematics and Applied Mathematics

RESEARCH INTEREST

Riemannian optimization
Differential geometry
Online optimization
Game theory
Learning theory

PUBLICATIONS

- **Wang, Xi**, Zhipeng Tu, Yiguang Hong, Yingyi Wu, and Guodong Shi*. "Online Optimization over Riemannian Manifolds." *Journal of Machine Learning Research* 24, no. 84 (2023): 1-67.

- **Wang, Xi**, Zhipeng Tu, Yiguang Hong*, Yingyi Wu, and Guodong Shi. "No-regret Online Learning over Riemannian Manifolds." Advances in Neural Information Processing Systems 34 (2021): 28323-28335.

- **Wang, Xi**, Deming Yuan, Yiguang Hong, Zihao Hu, Lei Wang and Guodong Shi* "Riemannian Optimistic Algorithms." Under Review.

- Tu, Zhipeng, **Xi Wang**, Yiguang Hong, Lei Wang, Deming Yuan, and Guodong Shi. "Distributed Online Convex Optimization with Compressed Communication." Advances in Neural Information Processing Systems 35 (2022): 34492-34504.

SCHOLARSHIP AND AWARDS

CSC Postgraduate Research Visiting Scholarship 2022-2023
China Scholarship Council, 22000 AUD per annum

The Chinese Academy of Sciences Presidential Award 2023
Chinese Academy of Sciences, 10000 CNY

"Sci. & Edu. Collaborative Program" Scholarship 2017
Chinese Academy of Sciences, 3000 CNY

CONFERENCES AND PRESENTATIONS

- "Distributed Online Convex Optimization with Compressed Communication," The 36th conference on Neural Information Processing Systems (NeurIPS) , New Orleans, USA, Novemeber 2022.

- "No-regret Online Learning over Riemannian Manifolds," The 35th conference on Neural Information Processing Systems (NeurIPS), Vitually, December 2021.

- "A Gradient-based Online Optimization Method on Riemannian Manifold," The 40th Chinese Control Conference, Shanghai, China, July 2021.

- " Learning Algorithm Design based on Manifold Optimization," 2020 China Automation Congress, Shanghai, China, June 2020.

TEACHING EXPERIENCE

Casual Academic Feb. 2023 – Jun. 2023
School of Aerospace, Mechanical and Mechatronic, University of Sydney
    AMME 3500 System Dynamics and Control (Professor Guodong Shi)

Teaching Assistant Sep. 2020 – Jan. 2021
School of Mathematical Sciences, University of Chinese Academy of Sciences
    B0111002Y Complex Analysis (Professor Shaoji Feng)