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NEURAL COMBINATORIAL OPTIMIZATION · AUTOMATED ALGORITHM DESIGN · EVOLUTIONARY COMPUTATION

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# **Education**

#### **Jilin University** Changchun, China Ph.D. IN COLLEGE OF COMPUTER SCIENCE AND TECHNOLOGY Outstanding Graduate Student of Jilin University, First Prize Graduate Scholarship of Jilin University Nanyang Technological University VISITING PH.D. STUDENT IN COLLEGE OF COMPUTING AND DATA SCIENCE Scholarship of China Scholarship Council **Jilin University** M.Sc. IN COLLEGE OF COMPUTER SCIENCE AND TECHNOLOGY • Graduate Academic Scholarship Jilin University Changchun, China B.Sc. IN COLLEGE OF COMPUTER SCIENCE AND TECHNOLOGY Sep. 2016 - Jul. 2020

Outstanding Student of Jilin University, Second Prize Scholarship of Jilin University

## Selected Publications

#### **JOURNAL ARTICLES**

- X. Wu, D. Wang, H. Chen, et al., "Neural architecture search for text classification with limited computing resources using efficient Cartesian genetic programming," IEEE Transactions on Evolutionary Computation, vol. 28, no. 3, pp. 638–652, 2024.
- X. Wu, J. Han, D. Wang, et al., "Incorporating Surprisingly Popular Algorithm and Euclidean distance-based adaptive topology into PSO," Swarm and Evolutionary Computation, vol. 76, p. 101222, 2023.
- Z. Cao\*, X. Wu\*, C. Wu, et al., "KeypointNet: An Efficient Deep Learning Model with Multi-View Recognition Capability for Sitting Posture Recognition," Electronics, vol. 14, p. 4, 2025.
- Y. Xiao, D. Wang, X. Wu<sup>+</sup>, et al., Improving generalization of neural vehicle routing problem solvers through the lens of model architecture, Neural Networks, vol. 187, p. 107380, 2025.
- J. Sun, X. Wu, Y. Xiao, et al., "DANet: Temporal Action Localization with Double Attention," Applied Sciences-basel, vol. 13, 2023.

### **CONFERENCE PROCEEDINGS**

- X. Wu, D. Wang, C. Wu, et al., Efficient Heuristics Generation for Solving Combinatorial Optimization Problems Using Large Language Models, in Proceedings of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2025.
- W. Song\*, X. Wu\*, B. Yang, et al., Towards Efficient Few-shot Graph Neural Architecture Search via Partitioning Gradient Contribution, in Proceedings of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2025.
- X. Wu, J. Huang, X. Fu, et al., "The Novel Characterizing Method of Collective Behavior Pattern in PSO," in Proceedings of ACIS/IEEE International Conference on Computer and Information Science, 2023, pp. 59–72.
- Y. Li, Y. Xiao, X. Wu, et al., "Leveraging hierarchical similarities for contrastive clustering," in Proceedings of International Conference on Neural Information Processing, 2023.

#### PRE-PRINTS

- X. Wu, D. Wang, L. Wen, et al., Neural Combinatorial Optimization Algorithms for Solving Vehicle Routing Problems: A Comprehensive Survey with Perspectives, arXiv: 2406.00415, 2024.
- Y. Xiao, D. Wang, X. Wu<sup>+</sup>, et al., From Global Assessment to Local Selection: Efficiently Solving Traveling Salesman Problems of Varying Sizes, Under Review.

**\*** equal contributions, **†** corresponding authors

## Academic Services

- CONFERENCE REVIEWER
- ICLR'2025

JOURNAL REVIEWER

• IEEE TNNLS, IEEE TEVC

# Sep. 2022 - current

### Singapore Nov. 2023 - Nov. 2024

Changchun, China Sep. 2020 - Jul. 2022