Assistant Professor Kaizhou Gao

Macau University of Science and Technology

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Academic Qualification:

PhD., Nanyang Technological University, Singapore, 2016

Master degree, Yangzhou University, Yangzhou, China, 2008

B.A., Liaocheng University, Liaocheng, China, 2005

Teaching Area

Fundamentals of Artificial Intelligence

Introduction to Management

Research Area

Artificial Intelligence; Intelligent Optimization Theory, Method and Application; Reinforcement Learning

Complex Systems Modeling, Optimization and Scheduling; Intelligent Transportation; Intelligent Manufacturing; Smart City

Working Experience

Sep. 2018 Till now, Assistant Professor, Macau University of Science and Technology.

[3] Leilei Meng, **Kaizhou Gao***, Yaping Ren, Biao Zhang, Hongyan Sang, Zhang Chaoyong, Novel MILP and CP models for distributed hybrid flowshop scheduling problem with sequence-dependent setup times, ***Swarm and Evolutionary Computation***, 71: 101058, 2022.

[4] Yaping Fu, Yushuang Hou, **Kaizhou Gao***, et al. Modelling and Scheduling Integration of Distributed Production and Distribution Problems via Black Widow Optimization. **Swarm and Evolutionary Computation**, 68: 101015. 2022.

[5] Y. Pan, **K. Gao**, Z. Li and N. Wu, "Improved Meta-Heuristics for Solving Distributed Lot-Streaming Permutation Flow Shop Scheduling Problems," **IEEE Transactions on Automation Science and Engineering**, Feb 2022, doi: 10.1109/TASE.2022.3151648. https://ieeexplore.ieee.org/document/9722368

[6] Y. An, X. Chen, **K. Gao**, Y. Li and L. Zhang, "Multiobjective Flexible Job-Shop Rescheduling With New Job Insertion and Machine Preventive Maintenance," **IEEE Transactions on Cybernetics**, Mar 2022, doi: 10.1109/TCYB.2022.3151855. https://ieeexplore.ieee.org/document/9733957

[7] Junqing Li, Yu Du, **Kaizhou Gao**, P.N. Suganthan. A Hybrid Iterated Greedy Algorithm for a Crane Transportation Flexible Job Shop Problem, **IEEE Transactions on Automation Science and Engineering**, Mar, 2021. DOI: 10.1109/TASE.2021.3062979

[8] Guoxing Wen, Wei Hao, Weiwei Feng, **Kaizhou Gao**, Optimized Backstepping Tracking Control Using Reinforcement Learning for Quadrotor Unmanned Aerial Vehicle System, **IEEE Transactions on Systems, Man, and Cybernetics: Systems**, September 2021. DOI: 10.1109/TSMC.2021.3112688

[9] PW Shaikh, M El-Abd, M Khanafer, **KZ Gao**, A Review on Swarm Intelligence and Evolutionary Algorithms for Solving the Traffic Signal Control Problem, **IEEE Transactions on Intelligent Transportation Systems**, 23(1): 48-63, Jan 2022.

[10] **KZ Gao**, ZM He, Y Huang, PY Duan, PN Suganthan, A survey on meta-heuristics for solving disassembly line balancing, planning and scheduling problems in remanufacturing, **Swarm and Evolutionary Computation**, 57, Sep 2020.

Professional Certification and Awards

1. 2021 Shandong Science and Technology Award, Natural Science Award, Second Prize
2. 2020 Shandong Provincial Higher Education Science and Technology Award
3. Excellent Paper Award of the 5th Conference on Intelligent Optimization and Scheduling
4. Excellent Paper Award of the 4th Conference on Intelligent Optimization and Schedulin

Journal Editorship

[1] Associate Editor: Expert Systems with Application, Elsevier, since 2022.

[2] Associate Editor: Swarm and Evolutionary Computation, Elsevier, since 2019.

[3] Special session Chair: 2022 The 25th IEEE International Conference on Intelligent Transportation Systems (IEEE ITSC), Macao, China, 8-12 Oct 2022.

[4] Special session Chair: 2022 IEEE Congress on Evolutionary Computation, Padua, Italy, 18-23 June 2022.

[5] Special session Chair: 2019 IEEE Congress on Evolutionary Computation, Wellington, New Zealand, 10-13 June 2019.

[6] Special session Chair: 2021 IEEE Congress on Evolutionary Computation, Krakow, Poland, 28 June - 1 July, 2021.

Personal Website

https://www.researchgate.net/profile/Kaizhou-Gao?ev=hdr_xprf&_sg=hjrqDShSdE4iRpJPtEtVwCRziLud1AmYV3wBfRzur1XTfFzP1wOOMby0Y7Hvo4-GeBnKShW42LPF33YHMMwCeygf