

Peng Yang

PERSONAL INFORMATION	Name: Peng YANG Email: yangp@sustech.edu.cn	Ph.D. Phone: +86-15555129131
RESEARCH INTERESTS	Evolutionary Policy Optimization, Interactive Evolutionary Computation, Distributed Evolutionary Computation.	
EDUCATION	University of Science and Technology of China , Hefei, China Ph.D., Computer Science, 09/2012 - 06/2017 Supervisors: Prof. Xin Yao and Prof. Ke Tang B.Eng., Computer Science, 09/2008 - 06/2012	
RESEARCH EXPERIENCE	Research Assistant Professor Department of Computer Science and Engineering, Southern University of Science and Technology, China Senior Engineer IT Algorithm Department, Huawei Technologies CO., LTD., China Visiting Student National Institute of Informatics, Japan Host supervisor: Prof. Helmut Prendinger Became an alumnus of Sakura Science Plan launched by JST(Japan Science Technology Agency). Visiting Student The Centre of Excellence for Research in Computational Intelligence and Applications (CERCIA), University of Birmingham, U.K. Host supervisor: Prof. Xin Yao Visiting Student The Intelligent Systems Group, University of Basque Country, Spain Host Supervisor: Prof. Jose A. Lozano	Feb. 2018 - present July 2017 - Jan. 2018 Oct 04th 2015 - Oct 24th 2015 July 2014 - Jan 2015 Nov. 2013 - May 2014
AWARDS	<ul style="list-style-type: none">• Outstanding Doctoral Dissertation of CAAI (Nomination Award)• Special Prize of Presidential Scholarship of Chinese Academy of Sciences• Excellent Graduate Student of Anhui Province• Excellent Graduate Student of University of Science and Technology of China• Guorui Scholarship• IEEE Computational Intelligence Society Outstanding Student Paper Travel Grants• Microsoft Research Asia Fellowship (Nomination Award)• USTC-Institute of Advanced Manufacturing Technology Scholarship• IEEE Computational Intelligence Society Graduate Student Research Grants• National Scholarship for Graduate Students	2018 2017 2017 2017 2016 2016 2015 2015 2015 2014
REFERRED JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. Minshi Chen, Jianxun Chen, Peng Yang, Shengcai Liu, and Ke Tang. A heuristic repair method for dial-a-ride problem in intracity logistic based on neighborhood shrinking. <i>Multimedia Tools and Applications</i>, 2020, in press.2. Dongbin Jiao, Peng Yang, Liqun Fu, Liangjun Ke, and Ke Tang. Optimal Energy-Delay Scheduling for Energy Harvesting WSNs with Interference Channel via Negatively Correlated Search. <i>IEEE Internet of Things Journal</i>, Vol. 7, Issue 3, pp. 1690-1703, 2020.3. Peng Yang, Ke Tang and Xin Yao. A Parallel Divide-and-Conquer based Evolutionary Algorithm for Large-scale Optimization. <i>IEEE Access</i>, vol. 7, pp. 163105-163118, 2019.4. Peng Yang, Ke Tang and Xin Yao. Turning High-dimensional Optimization into Computationally Expensive Optimization. <i>IEEE Transactions on Evolutionary Computation</i>, Vol. 22, Issue 1, pp. 143-156, 2018.	

5. Jinhong Zhong, **Peng Yang**, Ke Tang. A Quality-Sensitive Method for Learning from Crowds. *IEEE Transactions on Knowledge and Data Engineering*, Vol. 29, Issue 12, pp. 2643-2654, 2017.
6. Ke Tang*, **Peng Yang*** and Xin Yao*. Negatively Correlated Search. *IEEE Journal on Selected Areas in Communications*, Vol. 34, Issue 3, pp. 1-9, March 2016.
7. **Peng Yang**, Ke Tang, Jose A. Lozano and Xianbin Cao. Path Planning for Single Unmanned Aerial Vehicle by Separately Evolving Waypoints. *IEEE Transactions on Robotics*, Vol. 31, Issue 5, pp. 1130-1146, 2015.
8. **Peng Yang**, Ke Tang and Xiaofen Lu. Improving Estimation of Distribution Algorithm on Multi-modal Problems by Detecting Promising Areas. *IEEE Transactions on Cybernetics*, Vol. 45, Issue 8, pp. 1438-1449, 2015.

REFERRED
CONFERENCE
PUBLICATIONS

1. Wenjing Hong, **Peng Yang**, Yiwen Wang and Ke Tang. Multi-Objective Optimization-Based Latency-Aware Layer-Wise Magnitude-Based Pruning for DNN Compression. In: *Proceedings of the 2020 Conference of Parallel Problem Solving from Nature (PPSN 2020)*, in press.
2. Yunwen Lei, **Peng Yang**, and Ke Tang. Optimal Stochastic and Online Learning with Individual Iterates. In: *Proceedings of Conference and Workshop on Neural Information Processing Systems (NeurIPS 2019)*, Vancouver, Canada; 12/2019.
3. Er Zhuo, Yunjie Deng, Zhewei Su, **Peng Yang**, Bo Yuan, and Xin Yao. An Experimental Study of Large-scale Capacitated Vehicle Routing Problems. In: *Proceedings of the 2019 IEEE Congress on Evolutionary Computation (IEEE CEC 2019)*, Wellington, New Zealand; 06/2019.
4. Dongbing Jiao, **Peng Yang**, Liqun Fu, Liangjun Ke, and Ke Tang. Optimal Energy-Delay Scheduling for Energy Harvesting WSNs via Negatively Correlated Search. In: *Proceedings of the 2019 International Conference on Communications (ICC 2019)*, Shanghai, China; 07/2019.
5. Dongjun Qian, **Peng Yang*** and Ke Tang. A Fast Heuristic Path Computation Algorithm for Batch Bandwidth Constrained Routing Problem in SDN. In: *Proceedings of the 15th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2018)*, pp. 490-502, Nanjing, China; 08/2018, Springer.
6. **Peng Yang**, Guanzhou Lu, Ke Tang and Xin Yao. A Multi-Modal Optimization Approach to Single Path Planning for Unmanned Aerial Vehicle. In: *Proceedings of the 2016 IEEE Congress on Evolutionary Computation (CEC 2016)*, pp.1735-1742, Vancouver, Canada; 07/2016, IEEE.
7. **Peng Yang**, Ke Tang, Lingxi Li and Kai Qin. Evolutionary Robust Optimization with Multiple Solutions. In: *Proceedings of The 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2015)*, Nov., 2015, Singapore; pp.611-625, Springer.
8. Wenjing Hong, Guanzhou Lu, **Peng Yang**, Yong Wang and Ke Tang. A New Evolutionary Multi-objective Algorithm for Convex Hull Maximization. In: *Proceedings of the 2015 IEEE Congress on Evolutionary Computation (CEC 2015)*, pp.931-938, Sendai, Japan; 05/2015, IEEE.
9. **Peng Yang**, Ke Tang and Jose A. Lozano. Estimation of Distribution Algorithms based Unmanned Aerial Vehicle Path Planner Using a New Coordinate System. In: *Proceedings of the 2014 IEEE Congress on Evolutionary Computation (CEC 2014)*, pp.1469-1476, Beijing, China; 07/2014, IEEE.

PROFESSIONAL
SERVICES

Special Session Organizer

- Co-chair of Special Session on "Evolutionary Optimization: Foundations and Its applications to Intelligent Data Analytics" at ICIC'18.

Invited Talks

- "Large-scale Distributed Evolutionary Computational Engine", Huawei Technologies CO., LTD., Shenzhen, China; 09/2019.
- "Large-scale Distributed Evolutionary Computation", the 6th Chinese Workshop on Evolutionary Computation and Learning (ECOLE'2019), Xiangtan, China; 05/2019.
- "Turning High-dimensional Optimization into Computationally Expensive Optimization", the 15th Pacific Rim International Conference on Artificial Intelligence (PRICAI'2018), Nanjing, China; 08/2018.

Journal Reviewer

- IEEE Transactions on Evolutionary Computation
- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Emerging Topics in Computational Intelligence
- Information Sciences
- IEEE Computational Intelligence Magazine
- IEEE Access
- Applied Soft Computing
- Frontiers of Computer Science
- Computers & Operations Research
- Memetic Computing
- Natural Computing
- SCIENCE CHINA Information Sciences
- Swarm and Evolutionary Computation
- Journal of Systemics, Cybernetics, and Informatics

Conference PC member

- The International Conference on Machine Learning (ICML'20)
- The Association for the Advancement of Artificial Intelligence (AAAI'19, AAAI'20)
- The International Joint Conferences on Artificial Intelligence (IJCAI'18, IJCAI'19, IJCAI'20)
- The IEEE Congress on Evolutionary Computation (IEEE CEC'19, CEC'20)
- The International Conference on Simulated Evolution and Learning (SEAL'17)
- The IEEE Symposium Series on Computational Intelligence (SSCI'16)
- The World Multi-Conference on Systemics, Cybernetics And Informatics (WMSCI'15, WMSCI'18)