Peng Yang

Personal Information

Name: Peng Yang
Gender: Male
Email: yangp@sustc.edu.cn
Ph.D.
Birthdate: Sept.10th 1990
Phone: +86-15555129131

Research Interests

Evolutionary Computation, Intelligent Logistics.

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 Feb. 2018 - present
Department of Computer Science and Engineering,
Southern University of Science and Technology, China

Senior Engineer July 2017 - Jan. 2018
IT Algorithm Department,
Huawei Technologies CO., LTD., China

Research Assistant Sept. 2012 - June 2017
USTC-Birmingham Joint Research Institute in Intelligent Computation and Its Applications (UBRI),
University of Science and Technology of China, China
Supervisors: Prof. Xin Yao and Prof. Ke Tang

Visiting Student Oct 04th 2015 - Oct 24th 2015
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 July 2014 - Jan 2015
The Centre of Excellence for Research in Computational Intelligence and Applications (CERCIA),
University of Birmingham, U.K.
Host supervisor: Prof. Xin Yao

Visiting Student Nov. 2013 - May 2014
The Intelligent Systems Group,
University of Basque Country, Spain
Host Supervisor: Prof. Jose A. Lozano

Awards

- Special Prize of Presidential Scholarship of Chinese Academy of Sciences 2017
- Excellent Graduate Student of Anhui Province 2017
- Excellent Graduate Student of University of Science and Technology of China 2017
- Guorui Scholarship 2016
- IEEE Computational Intelligence Society Outstanding Student Paper Travel Grants 2016
- Microsoft Research Asia Fellowship (Nomination Award) 2015
- USTC-Institute of Advanced Manufacturing Technology Scholarship 2015
- IEEE Computational Intelligence Society Graduate Student Research Grants 2015
- National Scholarship for Graduate Students 2014

Referred Journal Publications

1. **Peng Yang**, Ke Tang and Xin Yao. Turning High-dimensional Optimization into Computationally Expensive Optimization. *IEEE Transactions on Evolutionary Computation*, Vol. 22, Issue 1, pp. 143-156, 2018. **(Top 10 popular article in IEEE Transctions on Evolutionary Computation)**

2. 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.

3. **Peng Yang**, Ke Tang and Xiaofen Lu. Improving Estimation of Distribution Algorithm on Multimodal Problems by Detecting Promising Areas. *IEEE Transactions on Cybernetics*, Vol. 45, Issue 8, pp. 1438-1449, 2015.

4. **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. **(Top 25 popular article in IEEE Transctions on Robotics)**

5. 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. **(Top 50 popular article in IEEE Journal on Selected Areas in Communications)**

Referred Conference Publications

1. **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 (CEC2016)*, pp.1735-1742, Vancouver, Canada; 07/2016, IEEE.

2. **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 (CEC2014)*, pp.1469-1476, Beijing, China; 07/2014, IEEE.

3. **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*, Nov., 2015, Singapore; pp.611-625, Springer.

4. 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 (CEC2015)*, pp.931-938, Sendai, Japan; 05/2015, IEEE.

Professional Services

Membership

- IEEE student member — Jan 2014 – Jan 2017

Journal Reviewer

- IEEE Transactions on Evolutionary Computation
- IEEE Transactions on Industrial Electronics
- Information Sciences
- Memetic Computing
- Natural Computing
- Swarm and Evolutionary Computation
- Journal of Systemics, Cybernetics, and Informatics (JSCI)

Conference PC member

- The International Joint Conferences on Artificial Intelligence (IJCAI'18)
- The IEEE Symposium Series on Computational Intelligence (SSCI'16)
- The World Multi-Conference on Systemics, Cybernetics And Informatics (WMSCI'15, WMSCI'18)

Professional Skills

- MATLAB, Python, JAVA, C/C++
- LaTeX, MS Office, Photoshop
- HTML, CSS