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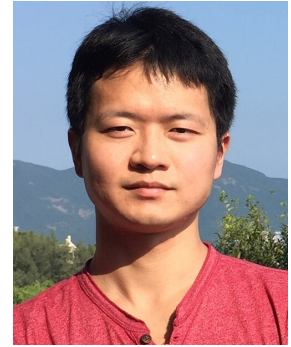
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## Profile

- I received my Ph.D. degree from Department of Electronic Engineering, City University of Hong Kong, Hong Kong, in October 2017, where I have been a Postdoctoral Fellow since then. Before that, I received my B.E. degree in Electrical Information Engineering from Xidian University, China, in 2008, and M.S. degree in Computer Application Technology from Ningbo University, China, in 2012.
- My current research interests include Evolutionary Computation and Complex Networks.

## Employment History

- 2019/05 – 2019/10 ■ **Postdoctoral Fellow.** City University of Hong Kong.  
Supervisor: Prof. Guanrong Chen
- 2017/04 – 2019/05 ■ **Research Fellow** under Postdoctoral Hub for ITF projects. City University of Hong Kong.  
Supervisor: Dr. Kim Fung Tsang and Prof. Guanrong Chen
- 2017/10 – 2019/03 ■ **Postdoctoral Fellow.** City University of Hong Kong.  
Supervisor: Prof. Guanrong Chen
- 2016/12 – 2017/05 ■ **Research Assistant.** City University of Hong Kong.  
Supervisor: Dr. Shiu Yin Yuen
- 2009/05 – 2009/09 ■ **Research Assistant.** Ningbo University.  
Supervisor: Dr. Junli Li
- 2008/03 – 2009/02 ■ **System Engineer.** Zhejiang Supcon Technology Co., Ltd.

## Education

- 2013/12 – 2017/10 ■ **Ph.D., Department of Electronic Engineering, City University of Hong Kong** in Evolutionary Computation.  
Thesis title: *Techniques for Improving Online and Offline History-assisted Evolutionary Algorithms.*  
Supervisor: Dr. Shiu Yin Yuen





## Education (continued)

- 2009/09 – 2012/03    ■ **M.S., College of Information and Science Engineering, Ningbo University** in Computer Application Technology.  
Thesis title: *A Research of Population Ordering Strategies and Gravitational Grouping Model Based Evolutionary Algorithms*.  
Supervisor: Dr. Junli Li
- 2004/09 – 2008/07    ■ **B.E. School of Communication Engineering, Xidian University** in Electronic Information Engineering.





## Research Publications

### Selected Journal Papers



- 1 Lou, Y. & Yuen, S. Y. (2019). On constructing alternative benchmark suite for evolutionary algorithms. *Swarm and Evolutionary Computation*, 44, 287–292. doi:10.1016/j.swevo.2018.04.005.  <https://doi.org/10.1016/j.swevo.2018.04.005>
- 2 Lou, Y., Wang, L., & Chen, G. (2019a). Local diversity–stability of the  $q$ -snapback network model. *Physica A: Statistical Mechanics and its Applications*. (Accepted).
- 3 Chen, G., Lou, Y., & Wang, L. (2019). A Comparative study on controllability robustness of complex networks. *IEEE Transactions on Circuits and Systems II: Express Briefs*. doi:10.1109/TCSII.2019.2908435.  <https://ieeexplore.ieee.org/document/8678482>
- 4 He, Y., Yuen, S. Y., Lou, Y., & Zhang, X. (2019). A Sequential algorithm portfolio approach for black box optimization. *Swarm and evolutionary computation*, 44, 559–570. doi:10.1016/j.swevo.2018.07.001.  <https://doi.org/10.1016/j.swevo.2018.07.001>
- 5 Lou, Y., Wang, L., & Chen, G. (2018). Toward stronger robustness of network controllability: A snapback network model. *IEEE Transactions on Circuits and Systems I: Regular Papers*, 65(9), 2983–2991. doi:10.1109/TCSI.2018.2821124.  <https://ieeexplore.ieee.org/abstract/document/8338132>
- 6 Lou, Y., Chen, G., Fan, Z., & Xiang, L. (2018). Local communities obstruct global consensus: Naming game on multi-local-world networks. *Physica A: Statistical Mechanics and its Applications*, 492, 1741–1752. doi:10.1016/j.physa.2017.11.094.  <https://doi.org/10.1016/j.physa.2017.11.094>
- 7 Lou, Y., Chen, G., & Hu, J. (2018). Communicating with sentences: A multi-word naming game model. *Physica A: Statistical Mechanics and its Applications*, 490, 857–868. doi:10.1016/j.physa.2017.08.066.  <https://doi.org/10.1016/j.physa.2017.08.066>
- 8 Yuen, S. Y., Lou, Y., & Zhang, X. (2018). Selecting evolutionary algorithms for black box design optimization problems. *Soft Computing*. doi:10.1007/s00500-018-3302-y.  <https://link.springer.com/article/10.1007/s00500-018-3302-y>
- 9 Zhou, J., Lou, Y., Chen, G., & Tang, W. K. (2018). Multi-language naming game. *Physica A: Statistical Mechanics and its Applications*, 496, 620–634. doi:10.1016/j.physa.2017.12.124.  <https://doi.org/10.1016/j.physa.2017.12.124>

- 10 **Lou, Y.** & Yuen, S. Y. (2016). Non-revisiting genetic algorithm with adaptive mutation using constant memory. *Memetic Computing*, 8(3), 189–210. doi:10.1007/s12293-015-0178-6.   
<https://link.springer.com/article/10.1007/s12293-015-0178-6>
- 11 Yuen, S. Y., Chow, C. K., Zhang, X., & **Lou, Y.** (2016). Which algorithm should I choose: An evolutionary algorithm portfolio approach. *Applied Soft Computing*, 40, 654–673. doi:10.1016/j.asoc.2015.12.021.   
<https://doi.org/10.1016/j.asoc.2015.12.021>
- 12 **Lou, Y.** & Chen, G. (2015). Analysis of the “naming game” with learning errors in communications. *Scientific Reports*, 5, 12191. doi:10.1038/srep12191.   
<https://www.nature.com/articles/srep12191>
- 13 **Lou, Y.**, Li, J., Shi, Y., & Jin, L. (2013). Gravitational co-evolution and opposition-based optimization algorithm. *International Journal of Computational Intelligence Systems*, 6(5), 849–861. doi:10.1080/18756891.2013.805590.   
<https://doi.org/10.1080/18756891.2013.805590>
- 14 **Lou, Y.**, Wang, L., & Chen, G. (2019b). Enhancing the controllability robustness of  $q$ -snapback networks through re-directing edges. *Research*, 15(NNN).


## Selected Conference Papers

- 1 **Lou, Y.**, Yuen, S. Y., Chen, G., & Zhang, X. (2019, June). On-line search history-assisted restart strategy for covariance matrix adaptation evolution strategy. In *IEEE Congress on Evolutionary Computation (CEC 2019)* (pp. 1–8). (Accepted). Wellington, New Zealand: IEEE.   
<https://arxiv.org/abs/1903.09085>
- 2 **Lou, Y.**, Yuen, S. Y., & Chen, G. (2018, July). Evolving benchmark functions using Kruskal–Wallis test. In *Genetic and Evolutionary Computation Conference (GECCO 2018)* (pp. 1337–1341). doi:10.1145/3205651.3208257. Kyoto, Japan: ACM.   
<https://dl.acm.org/citation.cfm?id=3208257>
- 3 **Lou, Y.** & Yuen, S. Y. (2017). A sequential learnable evolutionary algorithm with a novel knowledge base generation method. In *Simulated Evolution and Learning (SEAL 2017)* (pp. 51–61). doi:10.1007/978-3-319-68759-9\_5. Shenzhen, China: Springer.   
[https://doi.org/10.1007/978-3-319-68759-9\\_5](https://doi.org/10.1007/978-3-319-68759-9_5)
- 4 **Lou, Y.** & Yuen, S. Y. (2015). Non-revisiting genetic algorithm with constant memory. In *IEEE International Conference on Systems, Man, and Cybernetics* (pp. 1714–1719). doi:10.1109/SMC.2015.301. Hong Kong: IEEE.   
<https://ieeexplore.ieee.org/document/7379433>

## Books and Chapters

- 1 **Lou, Y.**, Yuen, S. Y., & Chen, G. (2019). Evolving benchmark functions for optimization algorithms. In A. Adamatzky, S. G. Akl, & G. Sirakoulis (Eds.), *From parallel to emergent computing* (pp. 239–260). CRC Press.   
<https://doi.org/10.1201/9781315167084>
- 2 Chen, G. & **Lou, Y.** (2019). *Naming game: Models, simulations and analysis*. Springer, Cham.   
<https://doi.org/10.1007/978-3-030-05243-0>

## Skills

Languages     Good reading, writing and speaking competencies for English, and native Mandarin Chinese.

## Skills (continued)

- Coding    ■ Matlab; C/C++; Python; L<sup>A</sup>T<sub>E</sub>X; &. HTML.  
Please find my Source Code web page for more details:  
<https://sites.google.com/site/felixylou/home/download>.
- Research    ■ Evolutionary Computation; Computational Intelligence; Complex Networks.

## Miscellaneous Experience

### Awards and Achievements

- 2019/04,05    ■ **Postdoctoral Fellowship of Hub for Incubatees and Innovation and Technology**, Innovation and Technology Commission, Hong Kong.
- 2017 – 2019    ■ **Postdoctoral Fellowship**, City University of Hong Kong.
- 2015 – 2016    ■ **Institutional Research Tuition Scholarship**, City University of Hong Kong.  
                  ■ **Outstanding Academic Performance Award**, City University of Hong Kong.
- 2014 – 2015    ■ **The College of Science and Engineering Student Research Excellence Award**, City University of Hong Kong.  
                  ■ **Outstanding Academic Performance Award**, City University of Hong Kong.  
                  ■ **Jockey Club House Active Resident Award**, City University of Hong Kong.
- 2013 – 2016    ■ **Postgraduate Studentship**, City University of Hong Kong.
- 2012    ■ **Outstanding Graduation Thesis of Ningbo University**, Ningbo University.

### Teaching Activities

- 2015 – 2016    ■ Teaching Assistant of **Topics in Computer Graphics (EE5808)**, and **Applied Queueing Systems (EE3313)**, City University of Hong Kong.  
                  ■ Teaching Assistant of **Data Communications and Networking (EE3009)**, City University of Hong Kong.
- 2014 – 2015    ■ Teaching Assistant of **Wireless Connectivity in Modern Society (GE1339)**, City University of Hong Kong.  
                  ■ Teaching Assistant of **Data Structures and Algorithms (EE2331)**, City University of Hong Kong.
- 2013 – 2014    ■ Teaching Assistant of **Object-Oriented Programming and Design (EE2311)**, City University of Hong Kong.
- 2009 – 2011    ■ Teaching Assistant of **C/C++ Programming**, Ningbo University.

### Academic Services

- 1    ■ **Editorial Member** for *Journal of Electrical and Electronic Engineering*.
- 2    ■ **Reviewer** for the journals including *Swarm and Evolutionary Computation*, *IEEE Transactions on Cybernetics*, *Information Sciences*, *National Science Review*, *Scientific Reports*, *Physica A: Statistical Mechanics and its Applications*, *IEEE Internet of Things Journal*, *IEEE Transactions on Communications*, *IEEE Transactions on Emerging Topics in Computational Intelligence*, *IEEE Access*, etc.
- 3    ■ **Committee Member** and/or **Reviewer** of the following conferences: *CSSE 2019*, *CCSIT 2018*, *SAI 2018*, *SEAL 2017*, and *CECNet 2014, 2015*.

## Supplementary Information

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