

Curriculum Vitae

Personal Information

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Research Highlights

- **Research Interests:** Evolutionary Computation, Machine Learning, Data Mining.
- **Publications:** authored/co-authored **111 peer-reviewed journal and conference papers**, including **49 publications in prestigious journals** such as IEEE Trans. on Evolutionary Computation, IEEE Trans. on Neural Networks and Learning Systems, IEEE Trans. on Systems, Man, and Cybernetics: Part B, Machine Learning, Pattern Recognition and Bioinformatics.
- **Impact:** According to Google Scholar data by September 28, 2015, my h-index is **24** and my publications have received **3180** citations. According to Essential Science Indicators (ESI) of ISI Web of Knowledge, one of my papers has been selected as the **ESI Highly Cited Papers** (top 1% papers published in the area of Computer Science during the past 11 years). One of my papers was highlighted by ScienceWatch.com as a "**New Hot Paper in the field of Computer Science**".

Education

- **Ph. D** (2007), School of Electrical and Electronic Engineering, Nanyang Technological University, Republic of Singapore.
- **B. Eng** (2002), Department of Control Science and Engineering, Huazhong University of Science and Technology, China.

Employment History

- **Feb. 2011 – present:** Professor, School of Computer Science and Technology, University of Science and Technology of China, Hefei, Anhui, P. R. China.
- **Oct. 2010 – present:** Assistant Executive Director, The USTC-Birmingham Joint Research Institute in Intelligent Computation and Its Applications (UBRI).
- **Jun. 2007 – Jan. 2011:** Associate professor, School of Computer Science and Technology, USTC.

Honorary Appointments

- **Sept. 2009 - present:** Honorary Senior Research Fellow, School of Computer Science, University of Birmingham.

Awards and Honors

- 2014: Outstanding Paper Award, The 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES2014), November 10-12, Singapore, for the following paper:
Z. Miao, J. Wang, A. Zhou and **K. Tang**, “Regularized Boost for Semi-supervised Ranking,” in *Proceedings of IES2014, Volume 1, Proceedings in Adaptation, Learning and Optimization Volume 1, 2015*, pp 643-651.
- 2014: The China Institute Joint Li Siguang Sino-UK Publication Prize 2014, The University of Birmingham, for the following paper:
M. Lin, **K. Tang** and X. Yao, “Dynamic Sampling Approach to Training Neural Networks for Multiclass Imbalance Classification,” *IEEE Transactions on Neural Networks and Learning Systems*, 24(4): 647-660, April 2013.
- 2012: New Century Excellent Talent, Ministry of Education of China
- 2011: Natural Science Award (2nd prize) of Ministry of Education of China
- 2009: Young Faculty Career Award of the University of Science and Technology of China, awarded by the USTC Alumni Foundation.
- 2005: Best Student Paper Award at the 2005 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology, San Diego, California, USA, 14-15, November, 2005.

Professional Activities

- Senior Member of IEEE (2012 -)
- Member of Evolutionary Computation Technical Committee, IEEE Computational Intelligence Society (2014 -)
- Member of Emergent Technologies Technical Committee, IEEE Computational Intelligence Society (2011 -)
- Member of Senior Member Committee, IEEE Computational Intelligence Society (2013 -)
- Founding Chair of IEEE Task Force on Collaborative Learning and Optimization, Emergent Technologies Technical Committee, IEEE Computational Intelligence Society (2011 - 2012)
- Founding Chair of IEEE Task Force on Large Scale Global Optimization, Evolutionary Computation Technical Committee, IEEE Computational Intelligence Society (2007 - 2011)
- Member of Task Force on Evolutionary Computation in Dynamic and Uncertain Environments, Evolutionary Computation Technical Committee, IEEE Computational Intelligence Society (2008 -)
- Member of Task Force on Memetic Computing, Emergent Technologies Technical Committee, IEEE Computational Intelligence Society (2011 -)
- **Journal/Book Series Editorship**
 1. Associate Editor of *IEEE Transactions on Evolutionary Computation* (2016 -)
 2. Associate Editor of *Computational Optimization and Applications* (2013 -)
 3. Associate Editor of *IEEE Computational Intelligence Magazine* (2010 -)

4. Associate Editor of *Natural Computing* (2014 -)
 5. Editorial Board Member of *Memetic Computing* (2014 -)
 6. Editorial Board Member of International Journal of Bio-inspired Computation (2009 -)
 7. Guest co-editor of the thematic issue of *Memetic Computing* (Springer) on “Memetic Algorithms for Evolutionary Multi-objective Optimization”, 2010.
 8. Guest co-editor of the special issue of *Frontiers of Computer Science in China* (Springer) on “From Nature to Computing and Back”, Vol. 3, No. 1, March 2009.
 9. Guest co-editor of the special issue of *Information Sciences* (Elsevier) on “Nature Inspired Problem-Solving: Theories and Applications”, Vol. 178, No. 15, 1st August, 2008.
- **Tutorials and Invited Talks at Conferences/Workshops**
 1. Keynote Speech, “Evolutionary Ensemble Learning in Uncertain Environments,” the 2015 IEEE Symposium on Computational Intelligence and Ensemble Learning (IEEE CIEL’15), December 8-10, 2015, Cape Town, South Africa.
 2. Tutorial, “Data-Driven Evolutionary Algorithms,” the 2015 IEEE Congress on Evolutionary Computation (CEC2015), May 25-28, 2015, Sendai, Japan.
 3. Invited Talk, “Data-driven Evolutionary Algorithms,” The Workshop on Intelligent Computing for Big Data organized by the Xi’an Jiaotong University, April 18-19, 2015, Xi’an, China.
 4. Invited Talk, “Data-driven Meta-heuristic Search,” The Workshop on Computational Intelligence organized by the City University of Hong Kong, December 5-6, 2014, Hong Kong, China.
 5. Tutorial, “Collaborative Learning and Optimization,” The 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES2014), November 10-12, 2014, Singapore.
 6. Invited Talk, “Multi-objective Evolutionary Approaches for ROC Performance Maximization,” The 2014 International Workshop on Neural Computational and Machine Intelligence (NCMI’14), July 14-15, 2014, Hefei, China.
 7. Invited Keynote Speech, “Recent Advances in Data-driven Evolutionary Computation,” The 5th International Workshop on Swarm Intelligence Systems (IWSIS 2014), June 6-8, 2014, Nanchang, China.
 8. Invited Talk, “Evolutionary Computation Approaches for Class Imbalanced Learning,” The 2013 Chinese Workshop on Intelligent Optimization and Computation, August 16-17, 2013, Xiangtan, Hunan, China.
 9. Tutorial, “An Introduction to Evolutionary Optimization: Recent Theoretical and Practical Advances,” The 23rd International Joint Conference on Artificial Intelligence, August 3-9, 2013, Beijing, China. (Co-presented with Dr. Yang Yu, Prof. Xin Yao and Prof. Zhi-Hua Zhou)
 10. Invited Talk, “Real-valued Evolutionary Optimization: Algorithms and Applications,” The 2009 Chinese Workshop on Intelligent Perception and Image Understanding, October 15-19, 2009, Xi’an, China.
 11. Invited Talk, “Feature Selection in Bioinformatics”, The 2008 UK-China Joint Workshop on “From Nature to Computing and Back”, February 21-24, 2008, Shanghai, China.
 - **Organizer of Academic Events**
 1. Paper Submission Chair, the 2016 IEEE World Congress on Computational Intelligence (WCCI 2016), July 25-29, 2016, Vancouver, China.
 2. Program Chair, the 10th International Conference on Bio-inspired Computing: Theories and Applications (BIC-TA 2015), September 25-28, 2015, Hefei, China.
 3. Program Chair, the 7th International Conference on Advanced Computational Intelligence (ICACI’2015), March 27-29, 2015, Wuyi, Fujian, China.
 4. General Co-Chair, the 2014 International Workshop on Nature Inspired Computation and Applications (IWNICA’14), November 3-5, 2014, Hefei, China.
 5. Technical Co-Chair, the 10th International Conference on Simulated Evolution And Learning (SEAL’2014), December 15-18, 2014, Dunedin, New Zealand.
 6. Publicity Co-Chair, the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES’2014), November 10-12, 2014, Singapore.
 7. Technical Committee Co-Chair, the 5th International Conference on Swarm Intelligence (ICSI’2014), October 17-20, 2014, Hefei, Anhui, China.

8. General Chair, the Inaugural Chinese Workshop on Evolutionary COmputation and Learning (ECOLE'2014), July 3-4, 2014, Hefei, Anhui, China.
 9. Program Co-Chair, the 14th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'2013), October 20-23, 2013, Hefei, Anhui, China.
 10. Technical Chair, the 2013 IEEE Congress of Evolutionary Computation (CEC'2013), June 20-23, 2013, Cancun, Mexico.
 11. Workshop and Special Sessions Co-Chair, the 3rd International Conference of Soft Computing and Pattern Recognition (SoCPaR'2011), October 14-16, 2011, Dalian, China.
 12. Program Co-Chair of the 2010 IEEE Congress of Evolutionary Computation (CEC'2010), July 18-23, 2010, Barcelona, Spain.
 13. Publicity Co-Chair, the 2009 IEEE International Symposium on Computational Intelligence in Robotics and Automation (CIRA'2009), November 15-18, 2009, Daejeon, Korea.
 14. Co-Chair, the 2008 International Workshop on Nature Inspired Computation and Applications (IWNICA'08), May 25-27, 2008, Hefei, China.
- **Program Committee Membership**
 1. Senior Program Committee member (SPC) for the Machine Learning Track of International Joint Conference on Artificial Intelligence (IJCAI 2015)
 2. IEEE Congress on Evolutionary Computation (CEC 2009, 2011, 2012, 2013, 2014)
 3. International Conference on Intelligent Data Engineering and Automated Learning (IDEAL 2009, IDEAL 2010, IDEAL 2011, 2012)
 4. Learning and Intelligent Optimization Conference (LION 5, LION 6, LION 9)
 5. International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE'08, IEA/AIE'12)
 6. International Conference on Neural Information Processing (ICONIP'08, ICONIP'12)
 7. International Conference on Machine Learning and Cybernetics (ICMLC'07, ICMLC'08, ICMLC'09, ICMLC'10)
 8. International Conference on Hybrid Artificial Intelligence Systems (HAIS'08, HAIS'09, HAIS'10)
 9. International Conference on Simulated Evolution And Learning (SEAL'08)
 10. International Conference on Soft Computing and Pattern Recognition (SoCPaR'09, SoCPaR'10)
 11. International Conference on Swarm Intelligence (ICSI'2011), June 12-15, Chongqing, China.

Publications

Google Scholar Citation: <https://scholar.google.com/citations?user=mzLHFbAAAAAJ&hl=en>

Refereed Journal Papers:

*Corresponding Author

1. Y. Sun, **K. Tang***, L. L. Minku, S. Wang and X. Yao, "Online Ensemble Learning of Data Streams with Gradually Evolved Classes," *IEEE Transactions on Knowledge and Data Engineering*, in press. (DOI: 10.1109/TKDE.2016.2526675)
2. **K. Tang**, P. Yang and X. Yao, "Negatively Correlated Search," *IEEE Journal on Selected Areas in Communications*, 34(3): 1-9, March 2016.
3. J. Wang, **K. Tang***, J. A. Lozano and X. Yao, "Estimation of Distribution Algorithm with Stochastic Local Search for Uncertain Capacitated Arc Routing Problems," *IEEE Transactions on Evolutionary Computation*, 20(1): 96-109, February 2016.
4. W. Hong and **K. Tang***, "Convex hull-based multi-objective evolutionary computation for maximizing receiver operating characteristics performance," *Memetic Computing*, 8(1): 35-44, February 2016.

5. P. Yang, **K. Tang***, J. A. Lozano and X. Cao, "Path Planning for Single Unmanned Aerial Vehicle by Separately Evolving Waypoints," *IEEE Transactions on Robotics*, 31(5): 1130-1146, October 2015.
6. H. Fu, B. Sendhoff, **K. Tang** and X. Yao, "Robust Optimization Over Time: Problem Difficulties and Benchmark Problems," *IEEE Transactions on Evolutionary Computation*, 19(5): 731-745, October 2015.
7. M. Omidvar, X. Li and **K. Tang**, "Designing Benchmark Problems for Large-Scale Continuous Optimization," *Information Sciences*, 316: 419-436, September 2015.
8. B. Li, J. Li, **K. Tang** and X. Yao, "Many-Objective Evolutionary Algorithms: A Survey," *ACM Computing Surveys*, 48(1), Article 13, 35 pages, September 2015.
9. P. Yang, **K. Tang*** and X. Lu, "Improving Estimation of Distribution Algorithm on Multimodal Problems by Detecting Promising Areas," *IEEE Transactions on Cybernetics*, 45(8): 1438-1449, August 2015.
10. L. Wan, **K. Tang***, M. Li, Y. Zhong and A. K. Qin, "Collaborative Active and Semi-supervised Learning for Hyperspectral Remote Sensing Image Classification," *IEEE Transactions on Geoscience and Remote Sensing*, 53(5): 2384-2396, May 2015.
11. P. Wang, M. Emmerich, R. Li, **K. Tang***, T. Baeck and X. Yao, "Convex Hull-Based Multi-objective Genetic Programming for Maximizing Receiver Operating Characteristic Performance," *IEEE Transactions on Evolutionary Computation*, 19(2): 188-200, April 2015.
12. X. Yang, **K. Tang*** and X. Yao, "A Learning-to-Rank Approach to Software Defect Prediction," *IEEE Transactions on Reliability*, 64(1): 234-246, March 2015.
13. L. Li and **K. Tang***, "History-Based Topological Speciation for Multimodal Optimization," *IEEE Transactions on Evolutionary Computation*, 19(1): 136-150, February 2015.
14. X. Lu, **K. Tang***, B. Sendhoff and X. Yao, "A New Self-adaptation Scheme for Differential Evolution," *Neurocomputing*, 146: 2-16, December 2014.
15. **K. Tang***, F. Peng, G. Chen and X. Yao, "Population-based Algorithm Portfolios with automated constituent algorithms selection," *Information Sciences*, 279: 94-104, September 2014.
16. T. Weise, R. Chiong, J. Lassig, **K. Tang**, S. Tsutsui, W. Chen, Z. Michalewicz and X. Yao, "Benchmarking Optimization Algorithms: An Open Source Framework for the Traveling Salesman Problem," *IEEE Computational Intelligence Magazine*, 9(3): 40-52, August 2014. (This paper was highlighted by the IEEE Computational Intelligence Magazine as "Publication Spotlight" in its August 2014 issue, Page 12.)
17. T. Weise, M. Wan, P. Wang, **K. Tang**, A. Devert and X. Yao, "Frequency Fitness Assignment," *IEEE Transactions on Evolutionary Computation*, 18(2): 226-243, April 2014.
18. X. Lu, **K. Tang**, B. Sendhoff and X. Yao, "A Review of Concurrent Optimization Methods," *International Journal of Bio-inspired Computation*, 6(1): 22-31, March 2014.
19. P. Wang, **K. Tang***, T. Weise, E. P. K. Tsang and X. Yao, "Multiobjective Genetic Programming for Maximizing ROC Performance," *Neurocomputing*, 125: 102-118, February 2014.
20. M. Lin, **K. Tang*** and X. Yao, "Dynamic Sampling Approach to Training Neural Networks for Multiclass Imbalance Classification," *IEEE Transactions on Neural Networks and Learning Systems*, 24(4): 647-660, April 2013.

21. Y. Jin, **K. Tang***, X. Yu, B. Sendhoff and X. Yao, "A framework for finding robust optimal solutions over time," *Memetic Computing*, 5(1): 3-18, March 2013.
22. Z. Yang, X. Li, C. P. Bowers, T. Schnier, **K. Tang** and X. Yao, "An Efficient Evolutionary Approach to Parameter Identification in a Building Thermal Model," *IEEE Transactions on Systems, Man, and Cybernetics: Part C*, 42(6): 957-969, November 2012.
23. K. Cai, J. Zhang, C. Zhou, X. Cao and **K. Tang**, "Using computational intelligence for large scale air route networks design," *Applied Soft Computing*, 12(9): 2790-2800, September 2012.
24. X. Lu and **K. Tang***, "Classification- and Regression-Assisted Differential Evolution for Computationally Expensive Problems," *Journal of Computer Science and Technology*, 27(5): 1024-1034, September 2012.
25. T. Weise, R. Chiong and **K. Tang**, "Evolutionary Optimization: Pitfalls and Booby Traps," *Journal of Computer Science and Technology*, 27(5): 907-936, September 2012.
26. R. Wang and **K. Tang***, "Feature Selection for MAUC Oriented Classification Systems," *Neurocomputing*, 89: 39-54, July 2012.
27. T. Chen, **K. Tang***, G. Chen and X. Yao, "A Large Population Size Can Be Unhelpful in Evolutionary Algorithms," *Theoretical Computer Science*, 436: 54-70, June 2012.
28. T. Weise and **K. Tang**, "Evolving Distributed Algorithms with Genetic Programming," *IEEE Transactions on Evolutionary Computation*, 16(2): 242-265, April 2012.
29. A. Devert, T. Weise and **K. Tang**, "A Study on Scalable Representations for Evolutionary Optimization of Ground Structures," *Evolutionary Computation*, 20(3): 453-472, January 2012.
30. Y. Mei, **K. Tang*** and X. Yao, "A Memetic Algorithm for Periodic Capacitated Arc Routing Problem," *IEEE Transactions on Systems, Man, and Cybernetics: Part B*, 41(6): 1654-1667, December 2011.
31. Z. Yang, **K. Tang*** and X. Yao, "Scalability of Generalized Adaptive Differential Evolution for Large-Scale Continuous Optimization," *Soft Computing*, 15(11): 2141-2155, November 2011.
32. X. Yu, **K. Tang*** and X. Yao, "Immigrant Schemes for Evolutionary Algorithms in Dynamic Environments: Adapting the Replacement Rate," *Science in China Series F: Information Sciences*, 54(7): 1352-1364, July 2011.
33. D. Liu, **K. Tang**, Z. Yang and D. Liu, "A Fiber Bragg Grating Sensor Network Using an Improved Differential Evolution Algorithm," *IEEE Photonics Technology Letters*, 23(19): 1385-1387, June 2011.
34. Y. Mei, **K. Tang*** and X. Yao, "Decomposition-Based Memetic Algorithm for Multiobjective Capacitated Arc Routing Problem," *IEEE Transactions on Evolutionary Computation*, 15(2): 151-165, April 2011.
35. Z. Wang, **K. Tang*** and X. Yao, "A Memetic Algorithm for Multi-level Redundancy Allocation," *IEEE Transactions on Reliability*, 59(4): 754-765, December 2010.
36. F. Peng, **K. Tang***, G. Chen and X. Yao, "Population-based Algorithm Portfolios for Numerical Optimization," *IEEE Transactions on Evolutionary Computation*, 14(5): 782-800, October 2010.
37. Z. Wang, **K. Tang*** and X. Yao, "Multi-objective Approaches to Optimal Testing Resource Allocation in Modular Software Systems," *IEEE Transactions on Reliability*, 59(3): 563-575, September 2010.

38. T. Chen, **K. Tang***, G. Chen and X. Yao, "Analysis of Computational Time of Simple Estimation of Distribution Algorithms," *IEEE Transactions on Evolutionary Computation*, 14(1): 1-22, February 2010.
39. **K. Tang**, Y. Mei and X. Yao, "Memetic Algorithm with Extended Neighborhood Search for Capacitated Arc Routing Problems," *IEEE Transactions on Evolutionary Computation*, 13(5): 1151-1166, October 2009.
40. **K. Tang**, M. Lin, F. L. Minku and X. Yao, "Selective Negative Correlation Learning Approach to Incremental Learning," *Neurocomputing*, 72(13-15): 2796-2805, August 2009.
41. **K. Tang**, G. Pugalenth, P. N. Suganthan, C. J. Lanczycki and S. Chakrabarti, "Prediction of Functionally Important Sites from Protein Sequences Using Sparse Kernel Least Squares Classifiers," *Biochemical and Biophysical Research Communications*, 384(2): 155-159, June 2009.
42. Y. Mei, **K. Tang*** and X. Yao, "A Global Repair Operator for Capacitated Arc Routing Problem," *IEEE Transactions on Systems, Man, and Cybernetics: Part B*, 39(3): 723-734, June 2009.
43. X. Yu, **K. Tang***, T. Chen and X. Yao, "Empirical Analysis of Evolutionary Algorithms with Immigrants Schemes for Dynamic Optimization," *Memetic Computing*, 1(1): 3-24, March 2009.
44. G. Pugalenth, **K. Tang**, P. N. Suganthan and S. Chakrabarti, "Identification of Structurally Conserved Residues of Proteins in Absence of Structural Homologs Using Neural Network Ensemble," *Bioinformatics*, 25(2): 204-210, January 2009.
45. Z. Yang, **K. Tang*** and X. Yao, "Large Scale Evolutionary Optimization Using Cooperative Coevolution," *Information Sciences*, 178(15): 2985-2999, August 2008. (According to ESI, it has been selected as the **Highly Cited Papers in Computer Science for the past 11 years.**)
46. G. Pugalenth, **K. Tang**, P. N. Suganthan, G. Archunan and R. Sowdhmini, "A Machine Learning Approach for The Identification of Odorant binding Proteins from Sequence-derived Properties," *BMC-Bioinformatics*, 8:351, September 2007. (This paper was highlighted by ScienceWatch.com as a "New Hot Paper". The report of an online interview of the authors is available at: <http://archive.sciencewatch.com/dr/nhp/2009/09marnhp/09marnhpRamET/>)
47. **E. K. Tang**, P. N. Suganthan and X. Yao, "Gene Selection Algorithms for Microarray Data Based on Least Squares Support Vector Machine," *BMC-Bioinformatics*, 7:95, 27 February 2006.
48. **E. K. Tang**, P. N. Suganthan, X. Yao, "An Analysis of Diversity Measures," *Machine Learning*, 65: 247-271, October 2006.
49. **E. K. Tang**, P. N. Suganthan and X. Yao and A. K. Qin, "Linear Dimensionality Reduction Using Relevance Weighted LDA," *Pattern Recognition*, 38(4): 485-493, April 2005.

Refereed Papers in Conference Proceedings:

1. L. Zhang, **K. Tang** and X. Yao, "Increasingly Cautious Optimism for Practical PAC-MDP Exploration," in *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI'15)*, Buenos Aires, Argentina, July 25-31, 2015, pp. 4033-4040.
2. J. Zhong, **K. Tang** and Z.-H. Zhou, "Active Learning from Crowds with Unsure Option," in *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI'15)*, Buenos Aires, Argentina, July 25-31, 2015, pp. 1061-1067.

3. Y. Wu, Y. Sun, X. Liang, **K. Tang** and Z. Cai, "Evolutionary Semi-Supervised Ordinal Regression Using Weighted Kernel Fisher Discriminant Analysis," in *Proceedings of the 2015 IEEE Congress on Evolutionary Computation (CEC2015)*, Sendai, Japan, May 25-28, 2015, pp. 3279-3286.
4. S. Liu, Y. Wei, **K. Tang**, A. K. Qin and X. Yao, "QoS-aware Long-term Based Service Composition in Cloud Computing," in *Proceedings of the 2015 IEEE Congress on Evolutionary Computation (CEC2015)*, Sendai, Japan, May 25-28, 2015, pp. 3362-3369.
5. W. Hong, G. Lu, P. Yang, Y. Wang and **K. Tang**, "A New Evolutionary Multi-objective Algorithm for Convex Hull Maximization," in *Proceedings of the 2015 IEEE Congress on Evolutionary Computation (CEC2015)*, Sendai, Japan, May 25-28, 2015, pp. 931-938.
6. X. Lu, S. Menzel, **K. Tang** and X. Yao, "The Performance Effects of Interaction Frequency in Parallel Cooperative Coevolution," in *Proceedings of the 10th International Conference on Simulated Evolution And Learning (SEAL 2014)*, December 15-18, 2014, *Lecture Notes in Computer Science* Volume 8886, 2014, pp.82-93, Springer-Verlag, Berlin.
7. Z. Miao, J. Wang, A. Zhou and **K. Tang**, "Regularized Boost for Semi-supervised Ranking," in *Proceedings of the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES2014)*, November 10-12, 2014, Singapore, *Proceedings in Adaptation, Learning and Optimization Volume 1, 2015*, pp. 643-651.
8. P. Yang, **K. Tang**, L. Li and A. K. Qin, "Evolutionary Robust Optimization with Multiple Solutions," in *Proceedings of the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES2014)*, November 10-12, 2014, Singapore, *Proceedings in Adaptation, Learning and Optimization Volume 1, 2015*, pp. 611-625.
9. T. Chen, Q. Guo, **K. Tang**, O. Temam, Z. Xu, Z.-H. Zhou, and Y. Chen, "ArchRanker: A ranking approach to design space exploration," in *Proceedings of the 41st International Symposium on Computer Architecture (ISCA'14)*, Minneapolis, MN, 2014, pp.85-96.
10. H. Fu, P. R. Lewis, B. Sendhoff, **K. Tang**, and X. Yao, "What Are Dynamic Optimization Problems?" in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation (CEC2014)*, Beijing, China, July 6-11, 2014, pp. 1550-1557.
11. J. Zhong, **K. Tang** and A. K. Qin, "Finding Convex Hull Vertices in Metric Space," in *Proceedings of the 2014 International Joint Conference on Neural Networks (IJCNN2014)*, Beijing, China, July 6-11, 2014, pp. 1587-1592.
12. P. Yang, **K. Tang** and J. 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)*, Beijing, China, July 6-11, 2014, pp. 1469-1476.
13. T. Weise, M. Wan, **K. Tang** and X. Yao, "Evolving exact integer algorithms with Genetic Programming," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation (CEC2014)*, Beijing, China, July 6-11, 2014, pp.1816-1823.
14. B. Li, J. Li, **K. Tang** and X. Yao, "An Improved Two Archive Algorithm for Many-Objective Optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation (CEC2014)*, Beijing, China, July 6-11, 2014, pp. 2869-2876.
15. Z. Miao and **K. Tang**, "Semi-supervised Ranking via List-wise Approach," in *Proceedings of the 14th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'13)*, Hefei, China, October 20-23, 2013, pp. 376-383, *Lecture Notes in Computer Science*, Volume 8206, Springer-Verlag Berlin Heidelberg, Germany.

16. L. Zhuang, **K. Tang** and Y. Jin, "Metamodel Assisted Mixed-Integer Evolution Strategies Based on Kendall Rank Correlation Coefficient," in *Proceedings of the 14th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'13)*, Hefei, China, October 20-23, 2013, pp. 366-375, Lecture Notes in Computer Science, Volume 8206, Springer-Verlag Berlin Heidelberg, Germany.
17. L. Wan, **K. Tang** and R. Wang, "Gradient Boosting-based Negative Correlation Learning," in *Proceedings of the 14th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'13)*, Hefei, China, October 20-23, 2013, pp. 358-365, Lecture Notes in Computer Science, Volume 8206, Springer-Verlag Berlin Heidelberg, Germany.
18. J. Liu and **K. Tang**, "Scaling Up Covariance Matrix Adaptation Evolution Strategy using Cooperative Coevolution," in *Proceedings of the 14th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'13)*, Hefei, China, October 20-23, 2013, pp. 350-357, Lecture Notes in Computer Science, Volume 8206, Springer-Verlag Berlin Heidelberg, Germany.
19. W. Chen and **K. Tang**, "Impact of problem decomposition on Cooperative Coevolution," in *Proceedings of 2013 IEEE Congress on Evolutionary Computation (CEC'13)*, Cancun, Mexico, June 20-23, 2013, pp. 733-740.
20. M. Li, R. Wang and **K. Tang**, "Combining Semi-Supervised and Active Learning for Hyperspectral Image Classification," in *Proceedings of 2013 IEEE Symposium Series on Computational Intelligence (SSCI'13)*, Singapore, April 16-19, 2013, pp. 89-94.
21. J. Wang, **K. Tang** and X. Yao, "A Memetic Algorithm for Uncertain Capacitated Arc Routing Problems," in *Proceedings of 2013 IEEE Symposium Series on Computational Intelligence (SSCI'13)*, Singapore, April 16-19, 2013, pp. 80-87.
22. R. Wang, W. Dong, Y. Wang, **K. Tang** and X. Yao, "Pipe Break Prediction: A Data Mining Method," in *Proceedings of the 29th IEEE International Conference on Data Engineering (ICDE'13)*, Brisbane, Australia, April 8-11, 2013, pp. 1208-1218.
23. Q. Huang, G. Jia, T. White, M. Musolesi, N. Turan, **K. Tang**, S. He, J. K. Heath and X. Yao, "Community Detection Using Cooperative Co-evolutionary Differential Evolution," in *Proceedings of the 12th International Conference on Parallel Problem Solving From Nature*. Taormina, Italy, September 1-5, 2012.
24. T. Weise, A. Devert and **K. Tang**, "A Developmental Solution to (Dynamic) Capacitated Arc Routing Problems using Genetic Programming," in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'12)*, Philadelphia, PA, USA, July 7-11, 2012, pp. 831-838.
25. H. Fu, B. Sendhoff, **K. Tang**, and Xin Yao, "Characterizing environmental changes in Robust Optimization Over Time," in *Proceedings of the IEEE Congress on Evolutionary Computation (CEC2012)*, Brisbane, Queensland, Australia, 10-15 June 2012, pp. 1-8.
26. L. Chen, H. Chen and **K. Tang**, "Semi-supervised Learning with Extremely Sparse Labeled Data on Multiple Semi-supervised Assumptions," in *Proceedings of The 2011 International Conference of Soft Computing and Pattern Recognition (SoCPaR)*, Dalian, China, 14-16 October 2011, pp. 242-247.
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