

Curriculum Vitae

Guo, Quan

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I am Quan Guo, Ph.D., with Machine Intelligence Lab at College of Computer Science, Sichuan University, China. I received my Ph.D. degree in machine intelligence from Sichuan University in 2017, supervised by Professor Zhang Yi, IEEE fellow. I also received my Master's degree and Bachelor's degree from Sichuan University in 2013 and 2010 respectively.

Contact Info

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Education

2013 - 2017	Sichuan University, <i>Ph.D. in Machine Intelligence, Computer science and technology</i>
2010 - 2013	Sichuan University, <i>M.S.</i>
2006 - 2010	Sichuan University, <i>B.Eng.</i>

Professional Experience

2014	<i>R&D Internship</i> , Institute of Deep Learning (IDL), Baidu Inc.
2013	<i>Visiting PhD. Student</i> , Tsinghua University

Research Projects

2016, Moderator, Key project of Sichuan Science and technology innovation seedling project
2015, Participant, Key projects of National Natural Science Foundation of China

2012, Participant, Specialized Research Fund for the Doctoral Program of Higher Education of China

2011, Participant, Specialized Research Fund for the Doctoral Program of Higher Education of China

Professional Services

Organizations

- ◆ Chair, IEEE Chengdu Young Professional Affinity Group (2016~)

Journal Reviewer

- ◆ IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- ◆ IEEE Transactions on Knowledge and Data Engineering (TKDE)
- ◆ IEEE Transactions on Cybernetics (TCyb)
- ◆ Knowledge-Based Systems
- ◆ Neurocomputing
- ◆ Frontiers of Computer Science
- ◆ Acta Automatica Sinica
- ◆ Applied Computational Intelligence and Soft Computing

Conference Reviewer

- ◆ International Joint Conference on Neural Networks (IJCNN 2014, 2015, 2016, 2017)
- ◆ 2015 National Conference of Theoretical Computer Science (NCTCS 2015) Jinhua, China, Oct. 30 - Nov. 1, 2015
- ◆ 2016 International Conference on Frontier of Computer Science and Technology (FCST 2016), Nagasaki, Japan, Nov. 11, 2016

Conference Organization

- ◆ Session Chair, 2016 International Conference on Frontier of Computer Science and Technology (FCST 2016), Nagasaki, Japan, Nov. 11, 2016
- ◆ Program Committee Member, 2016 International Conference on Frontier of Computer Science and Technology (FCST 2016), Nagasaki, Japan, Nov. 11, 2016

Honors and Awards

2017 ACM Chengdu Best Ph.D. Thesis Award Nomination

2016 IEEE Chengdu Section 2016 Excellent Student Paper Award

2016 SCF 2016 Best Student Paper Award

National Scholarship (for 2009, 2013, 2015, and 2016)

2012 The First Prize Scholarship of Sichuan University for Postgraduates

2009 The First Prize Scholarship of Sichuan University

- 2008 The IBM Chinese Excellent Student Scholarship
- 2008 The Wisisoft Scholarship
- 2009 Double TopTen Classes in Sichuan University (as the class monitor)
- 2008 Top Ten Student Unions in Sichuan University (as the vice-president of the Student Union)

Code Bases

- DSD (data science docker): <https://github.com/guoquan/dsd> | python, shell | A flexible management environment for experiments based on docker
- dlexp: <https://github.com/guoquan/dlexp> | MATLAB | Scaffold codes for feedforward neural network and autoencoders
- dlexp2: <https://github.com/guoquan/dlexp2> | MATLAB | A framework for more flexible structure of neural networks with auto-differentiation.
- fixed-point: In-company library of Baidu Inc. | C++, shell | A set of utilities to turn a trained network and its parameters into uint8 network.

Publications

2017

- [1] **Q. Guo**, H. Zhang, and Z. Yi, "High-Order Measurements for Residual Classifiers," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 28, iss. 5, pp. 1030-1042, 2017. doi:10.1109/TNNLS.2016.2515128
- [2] Z. Yi, **Q. Guo**, and J. Wang, "Big data analysis using neural networks," *Advanced Engineering Sciences*, vol. 49, iss. 1, pp. 9-18, 2017. doi:10.15961/j.jsuese.2017.01.002
- [3] K. Li, **Q. Guo**, and J. Guo, "Novel Algorithms for Reducing Bladder Volume Estimation Error Caused by Scanning Positions," *International Journal of Computer Mathematics*, vol. 94, iss. 6, pp. 1138-1154, 2017. doi:10.1080/00207160.2016.1184260
- [4] J. Wang, L. Zhang, **Q. Guo**, and Z. Yi, "Recurrent Neural Networks with Auxiliary Memory Unit," *IEEE Transactions on Neural Networks and Learning Systems, Online Early Access*, 2017. doi:10.1109/TNNLS.2017.2677968

2016

- [5] **Q. Guo**, J. Jia, G. Shen, L. Zhang, L. Cai, and Z. Yi, "Learning Robust Uniform Features for Cross-media Social Data by Using Cross Autoencoders," *Knowledge-Based Systems*, vol. 102, pp. 64-75, 2016. doi:10.1016/j.knosys.2016.03.028
- [6] Y. Sun, H. Mao, **Q. Guo**, and Z. Yi, "Learning a good representation with unsymmetrical auto-encoder," *Neural Computing and Applications*, vol. 27, iss. 5, pp. 1361-1367, 2016. doi:10.1007/s00521-015-1939-3

- [7] **Q. Guo**, J. Wang, Y. Chen, and Z. Yi, "Chinese Songci Composing with Recurrent Neural Network," *2016 International Conference on Frontier of Computer Science and Technology (FCST 2016)*, Nagasaki, Japan, Nov. 11, 2016.

2014

- [8] 章毅, 郭泉, 张蕾, and 吕建成, "深度网络和认知计算," *中国计算机学会通讯(CCCF)*, vol. 10, iss. 2, pp. 26-32, 2014.
- [9] H. Lin, J. Jia, **Q. Guo**, Y. Xue, Q. Li, J. Huang, L. Cai, and L. Feng, "User-level psychological stress detection from social media using deep neural network," *in Proceedings of the ACM international conference on multimedia (ACMMM 2014)*, New York, NY, USA, 2014, pp. 507-516. doi:10.1145/2647868.2654945
- [10] Z. Ren, J. Jia, **Q. Guo**, K. Zhang, and L. Cai, "Acoustics, content and geo-information based sentiment prediction from large-scale networked voice data," *in Multimedia and expo (ICME 2014), 2014 IEEE international conference on*, 2014. doi: 10.1109/ICME.2014.6890151
- [11] H. Lin, J. Jia, **Q. Guo**, Y. Xue, J. Huang, L. Cai, and L. Feng, "Psychological stress detection from cross-media microblog data using deep sparse neural network," *in Multimedia and expo (ICME 2014), 2014 IEEE international conference on*, 2014. doi: 10.1109/ICME.2014.6890213

2013

- [12] **Q. Guo**, L. Zhang, S. Wang, and Z. Yi, "Rigid image registration via column sparse optimisation for seal registration," *Electronics letters*, vol. 49, iss. 17, pp. 1069-1071, 2013. doi:10.1049/el.2013.0835