

# Tianshui Chen

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CONTACT INFORMATION	+86 15626471518 Homepage: <a href="http://tianshuichen.com">http://tianshuichen.com</a> Google Scholar   GitHub	tianshuichen@gmail.com
RESEARCH INTERESTS	Machine Learning: Deep Learning, Structured Learning, Knowledge Representation Learning, Few-Shot Learning Computer Vision: General/Fine-Grained Image Recognition, Scene Graph Generation, Salient object Detection, Object Detection	
EDUCATION	<b>Sun Yat-Sen University</b> , Guangzhou, Guangdong, China Ph.D., Computer Science and Technology, Aug 2013 to Present <ul style="list-style-type: none"><li>Advisors: Liang Lin, Ph.D</li></ul> <b>Sun Yat-Sen University</b> , Guangzhou, Guangdong, China B.S., Electronic Information Science and Technology, Sept 2009 to June 2013 <ul style="list-style-type: none"><li>GPA: 4.1/5.0 (rank: 2/91)</li></ul>	
ACADEMIC SERVICES	<b>Reviewer for</b> <ul style="list-style-type: none"><li>IEEE Transactions on Neural Networks and Learning Systems (T-NNLS)</li><li>IEEE Transactions on Image Processing (T-IP)</li><li>Pattern Recognition (PR)</li><li>Neurocomputing</li></ul>	
RESEARCH EXPERIENCE	<b>Research Assistant</b> Neural Network Compression and Acceleration The Hong Kong Polytechnic University Supervisor: Lei Zhang, Ph.D	June 2016 to June 2017
AWARDS	<b>Professional Awards</b> <ul style="list-style-type: none"><li>World's FIRST 10K Best Paper Award–Diamond Award in ICME 2017   July 2017</li><li><b>The Eleventh Place</b>, DET Task, Large Scale Visual Recognition Challenge (<b>ILSVRC</b>) 2015   Nov 2015</li><li><b>The Third Place</b>, CLS-LOC Task, Large Scale Visual Recognition Challenge (<b>ILSVRC</b>) 2014   Aug 2014</li></ul> <b>Student Awards —Graduate Student, Sun Yat-Sen University</b> <ul style="list-style-type: none"><li>National Scholarship   Oct 2017</li><li>SYSU Outstanding Graduate Student   Oct 2014</li><li>SYSU Outstanding Ph.D. Student Fellowship   Aug 2013 to Present</li></ul> <b>Student Awards —Undergraduate Student, Sun Yat-Sen University</b> <ul style="list-style-type: none"><li>SYSU Outstanding Graduates   July 2013</li><li>National Encouragement Scholarship   Nov 2011</li><li>The Second, Second, Third Prizes Scholarship   Nov 2010 to Nov 2012</li></ul>	
PROFESSIONAL TALKS	<ul style="list-style-type: none"><li>Image Distillation for Deep Neural Networks Acceleration, invited talk in the First VALSE Workshop on Deep Learning Models: Modern Architecture, Compression and Acceleration, Dalian, China.</li></ul>	

REFEREED  
JOURNAL  
PUBLICATIONS

1. **Tianshui Chen**, Liang Lin, Xian Wu, and Xiaonan Luo, Learning to Segment Object Candidates via Recursive Neural Networks, to appear in IEEE Transactions on Image Processing (**TIP**), 2018.
2. **Tianshui Chen**, Liang Lin, Lingbo Liu, Xiaonan Luo, and Xuelong Li, DISC: Deep Image Saliency Computing via Progressive Representation Learning, IEEE Transactions on Neural Networks and Learning Systems (**T-NNLS**), 27(6): 1135-1149, 2016.
3. Dongyu Zhang, Liang Lin, **Tianshui Chen**, Xian Wu, Wenwei Tan, and Ebroul Izquierdo, Content-adaptive sketch portrait generation by decompositional representation learning, IEEE Transactions on Image Processing (**TIP**), 26(1): 328-339, 2017.

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PUBLICATIONS

1. **Tianshui Chen**, Wenxi Wu, Yuefang Gao, Le Dong, Xiaonan Luo, Liang Lin, Fine-Grained Representation Learning and Recognition by Exploiting Hierarchical Semantic Embedding, Proc. of ACM International Conference on Multimedia (**ACM MM**), 2018. (oral presentation).
2. **Tianshui Chen**, Liang Lin, Riquan Chen, Yang Wu, and Xiaonan Luo, Knowledge-Embedded Representation Learning for Fine-Grained Image Recognition, Proc. of International Joint Conference on Artificial Intelligence (**IJCAI**), 2018.
3. **Tianshui Chen**<sup>†</sup>, Zhouxia Wang<sup>†</sup>, Jimmy Ren, Weihao Yu and Liang Lin, Deep Reasoning with Knowledge Graph for Social Relationship Understanding, Proc. of International Joint Conference on Artificial Intelligence (**IJCAI**), 2018. (†co-first authors).
4. **Tianshui Chen**, Liang Lin, Wangmeng Zuo, Xiaonan Luo and Lei Zhang, Learning a Wavelet-like Auto-Encoder to Accelerate Deep Neural Networks, Proc. of AAAI Conference on Artificial Intelligence (**AAAI**), 2018. (oral presentation).
5. **Tianshui Chen**, Zhouxia Wang, Guanbin Li, and Liang Lin, Recurrent Attentional Reinforcement Learning for Multi-label Image Recognition, Proc. of AAAI Conference on Artificial Intelligence (**AAAI**), 2018.
6. **Tianshui Chen**<sup>†</sup>, Zhouxia Wang<sup>†</sup>, Guanbin Li, Ruijia Xu and Liang Lin, Multi-label image recognition by recurrently discovering attentional regions, Proc. of IEEE International Conference on Computer Vision (**ICCV**), 2017. (†co-first authors).
7. Liang Lin, **Tianshui Chen**<sup>†</sup>, Lili Huang<sup>†</sup>, Yukang Gan and Hui Cheng, Knowledge-guided recurrent neural network learning for task-oriented action prediction, Proc. of IEEE International Conference on Multimedia and Expo (ICME), 2017. (**The world's first 10K Best Paper Diamond Award**, †co-second authors).
8. Shuye Zhang, Mude Lin, **Tianshui Chen**, Lianwen Jin and Liang Lin, Character proposal network for robust text extraction, Proc. of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2016.

PATENTS

1. Liang Lin, **Tianshui Chen**, Hui Cheng, Xiaonan Luo, Lin Xu, Weihao Yu, A Method and Device for Accelerating Deep Neural Network, 108053027A. (in Chinese).
2. Liang Lin, **Tianshui Chen**, Zhouxia Wang, Guanbin Li, Weihao Yu, Lin Xu, A Method and Device for Multi-Label Image Recognition, 108133233A. (in Chinese).
3. Liang Lin, Zhouxia Wang, Guanbin Li, **Tianshui Chen**, Hui Cheng, A Method for Multi-Label Image Recognition by Recurrently Discovering Attentive Regions, 107577983A. (in Chinese).