Tianshui Chen (陈添水)

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Education

Aug. 2013 – Dec. 2018 — **Ph.D., Computer Science and Technology, Sun Yat-Sen University**
Advisors: Liang Lin, Ph.D.

Sep. 2009 – June 2013 — **B.S., Electronic Information Science and Technology, Sun Yat-Sen University**
GPA：4.1 （Rank 2/91）

Research experience

Dec. 2018 – Present — **Principal Researcher, DMAI Research**
Visual Understanding for K12 education applications

June 2016 – June 2017 — **Research Assistant, The Hong Kong Polytechnic University**
Advisor: Lei Zhang, Ph. D.
Neural Network Compression and Acceleration

Research Interests

Machine Learning — Deep learning, Structured learning, Knowledge representation learning

Computer Vision — General/fine-grained image recognition, Object detection, Salient object detection, Scene graph generation

Robotics — Robotics perception, Task planning

Awards

Professional Awards

Aug 2018 – Present — Rank first at Pascal VOC 2012 leaderboard

July 2017 — World's FIRST 10K Best Paper Award Diamond Award in ICME 2017

Nov. 2015 — **The Eleventh Place**, Large Scale Visual Recognition Challenge (ILSVRC) 2015, Det Task

Awards (continued)

Aug. 2014 — **The Third Place**, Large Scale Visual Recognition Challenge (ILSVRC) 2014, CLS-LOC Task

Student Awards

Oct 2017 — National Scholarship

Oct 2014 — SYSU Outstanding Graduate Student

2013 – 2018 — SYSU Outstanding Ph.D. Student Fellowship

June 2013 — SYSU Outstanding Graduates

Nov. 2011 — National Encouragement Scholarship

2009 – 2012 — The Second, Second, Third Prizes Scholarship

Academic Service

Reviewers for the Following Conferences and Journals

- International Conference on Computer Vision and Pattern Recognition (CVPR) 2019/2020
- IEEE International Conference on Computer Vision (ICCV) 2019
- AAAI Conference on Artificial Intelligence (AAAI) 2020
- Transactions on Neural Networks and Learning Systems (T-NNLS)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Multimedia (TMM)
- Pattern Recognition (PR)
- Neurocomputating

Publications

1. Chao Chen, Guanbin Li, Ruijia Xu, **Tianshui Chen**, Meng Wang & Liang Lin. (2019). Clusternet: Deep hierarchical cluster network with rigorously rotation-invariant representation for point cloud analysis. In *Proc. of international conference on computer vision and pattern recognition (CVPR)*.
2. Jie Wu, **Tianshui Chen**, Hefeng Wu, Qing Wang, Zhi Yang & Liang Lin. (2019). Concrete image captioning by integrating content sensitive and global discriminative objective. In *Proc. of ieee international conference on multimedia and expo (ICME)*.

3. Pengxiang Yan, Guanbin Li, Yuan Xie, **Tianshui Chen**, Zhen Li & Liang Lin. (2019). Semi-supervised video salient object detection using pseudo-labels. In *Proc. of international conference on computer vision (ICCV)*.

4. **Tianshui Chen**, Muxin Xu, Xiaolu Hui, Hefeng Wu & Liang Lin. (2019). Learning semantic-specific graph representation for multi-label image recognition. In *Proc. of international conference on computer vision (ICCV)*.

5. **Tianshui Chen**, Riquan Chen, Lin Nie, Xiaonan Luo, Xiaobai Liu & Liang Lin. (2019). Neural task planning with and-or graph representations. *IEEE Transactions on Mutimedia (TMM)*.

6. **Tianshui Chen**, Weihao Yu, Riquan Chen & Liang Lin. (2019). Knowledge-embedded routing network for scene graph generation. In *Proc. of international conference on computer vision and pattern recognition (CVPR)*.

7. **Tianshui Chen**, Liang Lin, Riquan Chen, Yang Wu & Xiaonan Luo. (2018). Knowledge-embedded representation learning for fine-grained image recognition. In *Proc. of international joint conference on artificial intelligence (IJCAI)*.

8. **Tianshui Chen**, Liang Lin, Wangmeng Zuo, Xiaonan Luo & Lei Zhang. (2018). Learning a wavelet-like auto-encoder to accelerate deep neural networks. In *Proc. of aaai conference on artificial intelligence (AAAI)*.

9. **Tianshui Chen**, Lin, Liang, Xian Wu, Nong Xiao & Xiaonan Luo. (2018). Learning to segment object candidates via recursive neural networks. *IEEE Transactions on Image Processing (TIP)*.

10. **Tianshui Chen**, Wenxi Wu, Yuefang Gao, Le Dong, Xiaonan Luo & Liang Lin. (2018). Fine-grained representation learning and recognition by exploiting hierarchical semantic embedding. In *Proc. of acm international conference on multimedia (ACM MM)*.

11. **Tianshui Chen**, Zhouxia Zhou, Guanbin Li & Liang Lin. (2018). Recurrent attentional reinforcement learning for multi-label image recognition. In *Proc. of aaai conference on artificial intelligence (AAAI)*.

12. Zhouxia Wang, **Tianshui Chen**, Jimmy Ren, Weihao Yu, Hui Cheng & Liang Lin. (2018). Deep reasoning with knowledge graph for social relationship understanding. In *Proc. of international joint conference on artificial intelligence (IJCAI)*.

13. Dongyu Zhang, Liang Lin, **Tianshui Chen**, Xian Wu, Wenwei Tan & Ebroul Izquierdo. (2017). Content-adaptive sketch portrait generation by decompositional representation learning. *IEEE Transactions on Image Processing (TIP)*.

14. Liang Lin, Lili Huang, **Tianshui Chen**, Yukang Gan & Hui Cheng. (2017). Knowledge-guided recurrent neural network learning for task-oriented action prediction. In *Ieee international conference on multimedia and expo (ICME)*.

15 Zhouxia Wang, **Tianshui Chen**, Guanbin Li, Ruijia Xu & Liang Lin. (2017). Multi-label image recognition by recurrently discovering attentional regions. In *Proc. of ieee international conference on computer vision (ICCV)*.

16 Shuye Zhang, Mude Lin, **Tianshui Chen**, Lianwen Jin & Liang Lin. (2016). Character proposal network for robust text extraction. In *Proc. of ieee international conference on acoustics, speech and signal processing (ICASSP)*.

17 **Tianshui Chen**, Liang Lin, Lingbo Liu, Xiaonan Luo & Xuelong Li. (2016). Disc: Deep image saliency computing via progressive representation learning. *IEEE Transactions on Neural Network and Learning System (TNNLS)*.