Wei Xiong

wei.xiong@rochester.edu https://wxiong.me

Biography

I am a third-year PhD candidate in Department of Computer Science, at University of Rochester, advised by Prof. Jiebo Luo. My research mainly focuses on visual data synthesis and manipulation with generative models.

Education

2017 – 2022 **Ph.D., Computer Science, University of Rochester**
Advisor: Prof. Jiebo Luo
Research Topic: *Visual Synthesis and Manipulation*

2014 – 2017 **M.Sc., Computer Science, Wuhan University**
Research Topic: *Scene Understanding Using Deep Networks*

2010 – 2014 **B.Sc., Computer Science, Wuhan University**
Research Topic: *Unsupervised Feature Learning*

Publications

Conference Proceedings

1 **W. Xiong**, et al., "Unsupervised Real-world Low-light Image Enhancement with Decoupled Networks", 2020.

2 **W. Xiong**, Y. He, Y. Zhang, W. Luo, L. Ma and J. Luo, " Fine-grained Image-to-Image Transformation towards Visual Recognition", IEEE/CVF Conferences on Computer Vision and Pattern Recognition (**CVPR**), Seattle, WA, June 2020.

3 **W. Xiong**, J. Yu, Z. Lin, J. Yang, X. Lu, C. Barnes and J. Luo, "Foreground-aware Image Inpainting", In Proceedings of Computer Vision and Pattern Recognition (**CVPR**), 2019, pp. 5840-5848.

4 **W. Li***, W. Xiong*, et al., "CariGAN: Caricature Generation through Weakly Paired Adversarial Learning", 2019. (Equal Contribution)

5 **W. Xiong**, W. Luo, L. Ma, W. Liu, and J. Luo, "Learning to Generate Time-lapse Videos Using Multi-stage Dynamic Generative Adversarial Networks", In Proceedings of Computer Vision and Pattern Recognition (**CVPR**), 2018, pp. 2364-2373.

6 F. Mao, **W. Xiong**, B. Du, and L. Zhang, "Stochastic decorrelation constraint regularized auto-encoder for visual recognition", International Conference on Multimedia Modeling (**MMM**), 2017, pp. 368–380.

7 **W. Xiong**, B. Du, L. Zhang, R. Hu, and D. Tao, "Regularizing Deep Convolutional Neural Networks with a Structured Decorrelation Constraint", IEEE International Conference on Data Mining (**ICDM**), 2016, pp. 519–528.

8 **W. Xiong**, B. Du, L. Zhang, L. Zhang, and D. Tao, "Denoising Auto-Encoders toward Robust Unsupervised Feature Representation", International Joint Conference on Neural Networks (**IJCNN**), 2016, pp. 4721–4728.

Publications (continued)

9 **W. Xiong**, B. Du, L. Zhang, R. Hu, W. Bian, J. Shen, and D. Tao, "R^2FP: Rich and Robust Feature Pooling for Mining Visual Data", IEEE International Conference on Data Mining (**ICDM**), 2015, pp. 469–478.

Journal Articles

1 B. Du, **W. Xiong**, J. Wu, L. Zhang, L. Zhang, and D. Tao, "Stacked Convolutional Denoising Auto-Encoders for Feature Representation", IEEE Transactions on Cybernetics, vol. 47, no. 4, pp. 1017–1027, 2017.

2 **W. Xiong**, L. Zhang, B. Du, and D. Tao, "Combining Local and Global: Rich and Robust Feature Pooling for Visual Recognition", Pattern Recognition, vol. 62, pp. 225–235, 2017. doi: 10.1016/j.patcog.2016.08.006.

Experience

Research Intern

2019.05 -2019.08 **ByteDance AI Lab**, Palo Alto, USA.
Supervisors: Ding Liu, Chen Fang and Xiaohui Shen.
Topic: Real-world low-light image enhancement.

Research Intern

2018.05 -2018.08 **Adobe Research**, San Jose, USA.
Supervisors: Zhe Lin, Jimei Yang, Xin Lu and Connelly Barnes.
Topic: Foreground-aware image inpainting.

Research Intern

2017.06 -2017.08 **Tencent AI Lab**, Shenzhen, China.
Supervisors: Wenhan Luo, Lin Ma and Wei Liu.
Topic: Video prediction given only the first frame.

Research Assistant

2015.06 -2015.09 **Laboratoire d'Informatique Gaspard-Monge** (LIGM), Paris, France.
Supervisor: Chaohui Wang
Topic: Weakly supervised image segmentation.

Awards

2018.06 Volunteer of CVPR 2018
2017.06 Outstanding Graduate Student
2016.11 ICDM 2016 Student Travel Award
2016.10 National Scholarship
2014.06 Honored Graduate Award of HONGYI School