

Wei Xiong

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Biography

I am a second-year PhD student in Department of Computer Science, at University of Rochester, advised by Prof. Jiebo Luo. My research interests include computer vision and deep learning. Currently, I am mainly focusing on image inpainting, few shot learning, image-to-image translation and video prediction using generative models.

Education

- 2017 – 2022 **Ph.D., Computer Science, University of Rochester**
Advisor: Prof. Jiebo Luo
Research Focus: *Image and Video Generation*
- 2014 – 2017 **M.Sc., Computer Science, Wuhan University**
Research Focus: *Scene Understanding Using Deep Networks*
- 2010 – 2014 **B.Sc., Computer Science, Wuhan University**

Publications

Conference Proceedings

- 1 **W. Xiong**, J. Yu, Z. Lin, J. Yang, X. Lu and C. Barnes, “Foreground-aware Image Inpainting”, in submission.
- 2 **W. Xiong***, W. Li*, et al., “CariGAN: Caricature Generation through Weakly Paired Adversarial Learning”, in submission. (Equal Contribution)
- 3 **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.
- 4 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.
- 5 **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.
- 6 **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.
- 7 **W. Xiong**, B. Du, L. Zhang, R. Hu, W. Bian, J. Shen, and D. Tao, “R²FP: Rich and robust feature pooling for mining visual data”, IEEE International Conference on Data Mining (ICDM), 2015, pp. 469–478.

Journal Articles

- 1 W. Li*, **W. Xiong***, H. Liao, et al. CariGAN: Caricature Generation through Weakly Paired Adversarial Learning[J]. arXiv preprint arXiv:1811.00445, 2018.

Publications (continued)

- 2 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.
- 3 **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

- 2018.05 **Adobe Research**, San Jose, USA.
-2018.08 Supervisors: Zhe Lin, Jimei Yang, Xin Lu and Connelly Barnes.
Topic: Image inpainting with structure guidance.

Research Assistant

- 2017.11 **University of Rochester**, NY, USA.
-present Supervisor: Jiebo Luo.
Topic: Few shot learning with generative adversarial networks.

Research Intern

- 2017.06 **Tencent AI Lab**, Shenzhen, China.
-2017.08 Supervisors: Wenhan Luo, Lin Ma and Wei Liu.
Topic: Generate realistic time-lapse videos with a multi-stage dynamic generative adversarial network given only the first frame.

Research Assistant

- 2015.06 **Laboratoire d’Informatique Gaspard-Monge (LIGM)**, Paris, France.
-2015.09 Supervisor: Chaohui Wang
Topic: Develop a weakly supervised method for image segmentation based on fully convolutional networks.

Awards

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