Mengdan Zhang

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EDUCATION

Zhejiang University – M.S. Computer Science, 2015 - present

- College of Computer Science and Technology – Concentration in Deep Learning, GPA: 3.8

Sun Yat-sen University – B.S. Computer Science, 2011 - 2015

- School of Computer Science – Concentration in Intelligent Algorithm, GPA: 3.6

PROJECTS

Artistic Style Transfer – Internship, Hangzhou Muri Technology, Ltd., October 2016 – June 2017

- Combined the content of one image with the style of another image using convolutional neural networks in order to offer customers different style choices for each design in pattern database
- Implemented and compared several neural style and image analogy algorithms
- Improved stylization performance by multi-GPU distributed computation and arbitrary-sized image supporting

Image Classification – Internship, Hangzhou Muri Technology, Ltd., July 2017

- Classified and labeled design materials in pattern database with VGG19
- Trained network with one hundred thousand labeled pattern images

Image Search – Internship, Hangzhou Muri Technology, Ltd., May 2017

- Implemented function for searching similar images with given picture. Found images should have same characteristics in both content and color as original picture
- Converted images' characteristics into binary descriptor with unsupervised deep learning network
- Each pair of images had closer Euclidean distance when they share more similarities

Feature Extraction - Laboratory project, Zhejiang University, May 2016 – July 2016

- Extracted text information from commodity evaluations and movie reviews
- Applied Word2vec, clustering algorithms, and regular expressions for sentiment analysis

Image Generation - Laboratory project, Zhejiang University, March 2016 – April 2016

- Implemented prediction and regeneration of defect parts in small-sized pictures with neural networks for laboratory image database
- Function was based on CNN and pixelRNN

PUBLICATIONS

- Wu S., Zhang MD., Chen G., Chen K., Shou LD. (Accepted, full paper) A New Approach to Compute CNNs for Extremely Large Images. In *Proceedings of the 26th ACM International Conference on Information and Knowledge Management (CIKM)*.
- Zhang MD., Zhan ZH., Li JJ., Zhang J. (2014) Tournament Selection Based Artificial Bee Colony Algorithm with Elitist Strategy. In *Proceedings of the Conference on Technologies and Applications of Artificial Intelligence*, 387–396.

AWARDS

Sun Yat-sen University:

School Scholarship (2012), Outstanding Graduate Thesis (2015)

Zhejiang University:

School Scholarship (2016), VMware Achieve Scholarship (2017), Honor for Graduate (2016, 2017)

SKILLS

Language: Mandarin - Native, English - Fluent

Programming language: Python, C/C++, HTML, CSS, JavaScript

Software Knowledge: Tensorflow, Caffe, PyTorch, Linux Shell, Git, Photoshop