

Dongyu She

VISUAL SENTIMENT ANALYSIS · OBJECT RECOGNITION · WEAKLY-SUPERVISED DETECTION

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Education

Nankai University M.S.

MASTER IN COLLEGE OF COMPUTER AND CONTROL ENGINEERING, CV LAB

Aug. 2016 - Exp. Jun. 2019

- Advisor: **Jufeng Yang**, Associate Professor, Nankai University, *yangjufeng@nankai.edu.cn*
- Mentor: Ming-Ming Cheng, Professor, Nankai University, cmm@nankai.edu.cn
- Mentor: Ming-Hsuan Yang, Professor, University of California, Merced, minghsuanyang@gmail.com
- Mentor: Paul L. Rosin, Professor, University of Cardiff, rosinpl@cardiff.ac.uk

Nankai University B.S.

BACHELOR IN COLLEGE OF COMPUTER AND CONTROL ENGINEERING; BACHELOR IN FINANCE

Aug. 2012 - Jun. 2016

· Major classes: Data Structure, Object Oriented Programming, Algorithm Design, Operation System, etc.

Publication

CONFERENCE

1	Jufeng Yang, <i>Dongyu She</i> , Yu-Kun Lai, Paul Rosin and Ming-Hsuan Yang, Weakly Supervised Coupled	CVPR 2018
	Networks for Visual Sentiment Analysis	spotlight
2	Jufeng Yang, Dongyu She, Yu-Kun Lai and Ming-Hsuan Yang, Retrieving and Classifying Affective Images	AAAI 2018
	via Deep Metric Learning	oral
3	Jufeng Yang, Dongyu She and Ming Sun, Joint Image Emotion Classification and Distribution Learning	IJCAI 2017
	via Deep Convolutional Neural Network	
4	Yuxiang Zhang, Jiamei Fu <i>Dongyu She</i> , Ying Zhang, Senzhang Wang, Jufeng Yang, Text Emotion	IJCAI 2018
	Distribution Learning via Multi-Task Convolutional Neural Network	
5	Jiamei Fu*, <i>Dongyu She</i> *, Xingxu Yao, Yuxiang Zhang, Jufeng Yang, Deep Coordinated Textual and	PRICAI 2018
	Visual Network for Sentiment-oriented Cross-modal Retrieval	
6	Jufeng Yang, Liyi Chen, Le Zhang, Xiaoxiao Sun, <i>Dongyu She</i> , Shao-Ping Lu, Ming-Ming Cheng,	ACM MM 2018
	Historical Context-based Style Classification of Painting Images via Label Distribution Learning	

JOURNAL

JULY 5, 2018

Jufeng Yang, *Dongyu She*, Ming Sun, Ming-ming Cheng, Liang Wang and Paul Rosin, Visual Sentiment
Prediction based on Automatic Discovery of Affective Regions

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Submitted _

Jufeng Yang, *Dongyu She*, Ming-Ming Cheng, Paul L. Rosin, Junwei Han, Liang Wang, Philip H.S. Torr, submitted to
Towards Emotion Ambiguity of Visual Content via Label Distribution Learning

Technical Skills

Coding **Python, C++**, Pytorch, Caffe, matlab, Linux Others **CET6(527)**, LaTex, Photoshop, Visio

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Dongyu She · Resume

Experience

Academic Visitor UK, Cardiff

COMPUTER VISION LAB, CARDIFF UNIVERSITY & ADVISOR: YU-KUN LAI

Oct. 2017

• **Project:** weakly supervised detection; **Invited Talk**: Visual Sentiment Analysis using Convolutional Neural Network

Conference Volunteer China, Tianjin

ORGANIZING AND RECEPTION Apr. 2017

Computational Visual Media Conference (CVM 2017)

Projects

1. Weakly Supervised Detection

CV Lab

IDEA & REFERENCE INVESTIGATION & CODING & PAPER WRITING

Sep. 2016 - PRESENT

- Detecting a specific soft map that evoking sentiment in a weakly supervised manner, while only requiring for the image-level labels.
- Proposing a weakly supervised coupled convolutional network (WSCNet) with two branches to leverage the localized information.
- **Detection branch** summaries feature maps to the image-level scores with the cross spatial pooling strategy, **Classification branch** takes both holistic and localized representation into consideration.
- Getting SOA classification result and achieving comparable detection results with fully-supervised methods, accepted by CVPR 2018.

2. Visual Sentiment Recognition

CVIab

IDEA & REFERENCE INVESTIGATION & CODING & PAPER WRITING

Jan. 2016 - PRESENT

- · Learning information from a large-scale web dataset to improve the generalization ability of the deep model for the recognition.
- Incorporating a multiple kernel scheme in the CNN model that can select features from different layers with suitable kernels automatically.
- Comparing with various basic low-level representations and deep features, achieving SOA result, submitted to ACM MM 2018
- A web application for recognizing visual sentiment is released for public: cv.nankai.edu.cn/apps

3. Sentiment Label Distribution Learning

CV Lab

IDEA & REFERENCE INVESTIGATION & CODING & PAPER WRITING

Jan. 2017 - PRESENT

- Addressing the sentiment ambiguity problem that image rarely expresses pure emotion, but often a mixture of different emotions via Label Distribution Learning (LDL).
- Simultaneously optimizing the classification and distribution prediction in a multi-task CNN model for the distribution datasets.
- Exploring implication and exclusion strategies to transform the dominant sentiment label into distribution for the single-label datasets.
- Getting SOA distribution prediction result and improving the classification performance, accepted by IJCAI 2017.

4. Emotion-Based Image Retrieval

CV Lab

IDEA & REFERENCE INVESTIGATION & CODING & PAPER WRITING

Jun. 2017 - PRESENT

- Exploring the hierarchical relation between sentiments for image retrieval task, that emotions with the same polarity are highly related.
- Designing the sentiment constraint to consider the natural polarities of emotions during training by generalizing the triplet constraint
- · Utilizing the texture information with sentiment vector to distinguish affective images based on Gram matrix.
- Retrieving images in the affective level and achieving SOA result, accepted by AAAI 2018

Honors&Awards

2014 Merit Student. honor

2015 **Nankai University 'Gongneng' Scholarship**, the second prize

2015 China Undergraduate Mathematical Contest in Modeling, Second Class Award at the provincial level

2016 Nankai University 'Mingshanyunneng' Scholarship, the first prize

2017 Merit Student honor

JULY 5, 2018