Linlin Yang *Male • May 22, 1991*

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Education

Beihang University — Beijing, China
Master degree in Pattern Recognition and Intelligent System — *2014.9 – 2017.6*
advisor: Prof. Baochang Zhang

Beihang University — Beijing, China
Bachelor degree in Automation Science and Electrical Engineering — *2009.9 – 2013.6*

Honors & Awards

- The First Prize of National Olympiad in Informatics in Provinces (NOIP)(2008)
- The Second Prize of "Fengru Cup" Academic Scientific and Technological Works Competition (2012)
- Beijing Outstanding Graduate Awards (2013)
- National Scholarship for Graduate Students (2017)

Publications

1. **Linlin Yang**, Ce Li, Jungong Han, Qixiang Ye, Chen Chen, Wanquan Liu and Baochang Zhang. Manifold Constrained Convolutional Sparse Coding for Image Sets[J]. IEEE Journal of Selected Topics in Signal Processing (accepted).

2. Baochang Zhang,Yun Yang, Chen Chen, **Linlin Yang**, Jungong Han and Ling Shao. Action Recognition Using 3D Histograms of Texture and A Multi-class Boosting Classifier[J]. IEEE Transactions on Image Processing (accepted).

3. Baochang Zhang, **Linlin Yang**, Jungong Han, Vittorio Murino, Jianzhuang Liu, Linlin Shen, Alessio Del Bue. Manifold Constraint for Rotation Invariant Low Rank Decomposition[J]. IEEE Transactions on Circuits and Systems for Video Technology (submitted).

4. **Linlin Yang**, Chen Chen, Hainan Wang, Baochang Zhang and Jungong Han. Adaptive Multi-class Correlation Filters[C]. Proceedings of the Pacific-Rim Conference on Multimedia. 2016 (published).

5. Su Xiangbo, Baochang Zhang, **Linlin Yang**, Zhigang Li and Yun Yang. Scale Invariant Kernelized Correlation Filter Based on Gaussian Output[C]. Proceedings of the International Conference on Cloud Computing and Security. 2016 (published).

6. Yun Yang, Baochang Zhang, **Linlin Yang**, Chen Chen and Wankou Yang. Action Recognition Using Completed Local Binary Patterns and Multiple-class Boosting Classifier[C]. Asian Conference on Pattern Recognition. 2015:336-340 (published).

7. **Linlin Yang**, Dandan Du, Baochang Zhang and Wankou Yang. A Panoramic Video System Based on Exposure Adjustment and Non-linear Fusion[C]. Proceedings of the Chinese Conference on Biometric Recognition. 2015:106-110 (published).

Skills

- **Technical specialties:** Proficient: MATLAB/C++. Familiar: Python/Caffe/Linux
- **Languages:** Mandarin Chinese *(mother tongue)*, English *(TOEFL 83, in preparation)*.

Research Interests

Machine Learning, Computer Vision and Pattern Recognition. Especially 2D or 3D Reconstruction, Action Recognition and Real-time Image Processing.

Intern Experience

Beijing Terra Vision Technology Co.,Ltd. — Beijing, China
Software Engineer — *2013.12 – 2014.6*
Participated in the development of airplane detection systerm

Beijing Lamp Goldeneye Technology Co.,Ltd. — Beijing, China
Algorithm Engineer — *2016.9 – 2017.3*
Researched on convolutional sparse coding

Research Experience

Manifold Constraint *2016.7 - 2017.3*

- Presented a manifold based Alternating Direction Method of Multipliers (ADMM) framework to reduce noise and perturbation of the intput.
- Employed Manifold Constraint for Rotation Invariant Low Rank Decomposition and batch image problems.
- Theoretical results were derived showing that imposing manifold constraint on the input data was equivalent to imposing regularization terms on the coding process.

Adaptive Multi-class Correlation Filters *2016.3 - 2016.7*

- Added multi-class constraint into Correlation Filters .
- Proposed an ADMM framework to calculate correlation filters with adaptive outputs.

Action Recognition Using 3DoT and A Multi-class Boosting Classifier *2015.11 - 2016.9*

- Proposed a multi-class boosting classifier with GMM assumption.
- Employed the Multi-class Boosting Classifier on Action Recognition.

Scale Invariant Kernelized Correlation Filter Based on Gaussian Output *2015.7 - 2015.11*

- Designed a long term tracking scheme with Gaussian distribution assumption.
- Proposed a scale estimation method to find an accurate candidate.

A Panoramic Video System Based on Exposure Adjustment and Non-linear Fusion *2015.5 - 2015.7*

- Implemented a video stitch system based on the exposure adjustment and nonlinear fusion.

Please refer to My Personal Website for the full-text of my paper.
