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1. ☐☐☐☐☐   2.

3. ＿＿＿＿(B)＿＿＿＿   4. ＿＿＿＿＿＿＿

5. ☐☐☐☐☐☐☐

6. Fast, effective and robust person re-identification for large-scale real applications

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In this year, we have published 2 journal papers and 1 conference paper, and there are 1 journal paper and 1 conference paper currently under review

In the paper of "Joint Hierarchical Category Structure Learning and Large Scale Image Classification", we built a novel tree structure model together with deep features for scalable and effective image classification. It is a general model which can be applied to person re-identification too. In another journal paper entitled "Re-identification by Neighborhood Structure Metric Learning" we explored a new metric learning model for person re-identification. We showed an enhanced and more effective learning model in our conference paper.

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We have made significant progress in the 2nd year on exploring effective and scalable recognition models and we were able to publish 2 journal papers and 1 conference paper, with another 1 journal paper and 1 conference paper submitted for reviewing.

Besides the originally planned model, we were able to explore more promising new models (using end-to-end deep learning), which are presented in our papers under reviewing.

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Since we have already got much progress on exploring the effectiveness and scalability, we will focus more on the efficiency in the last year, and try to integrate things together. We will also do the planned experiments on transfer learning for testing the generalization ability of our models.

The planned hardware purchasing plan has been mainly covered by other budgets of our lab. In the 2nd year we didn't have much travelling cost and publication cost, but we have more ongoing work to be published in the last year. So the budget is saved for the last year.

We will have more students working on extending the work and we will publish more papers. So the budget will be used for supporting these students, as well as publishing and presenting our research outcomes.

Yanyun Qu, Li Lin, Fumin Shen, Chang Lu, Yang Wu, Yuan Xie, Dacheng Tao	Joint Hierarchical Category Structure Learning and Large Scale Image Classification					
					3 5	
IEEE Transactions on Image Processing				2 0 1 7		
DOI						
10.1109/TIP.2016.2615423						

Wei Li, Yang Wu, Jianqing Li	Re-identification by Neighborhood Structure Metric Learning					
Pattern Recognition		61	2 0 1 7		327-338	
DOI						
10.1016/j.patcog.2016.08.001						

Yang Wu, Dong Yang, Ru Zhou, Dong Wang	Dictionary Co-learning for Multiple-shot Person Re-identification
Chinese Conference on Biometric Recognition	2016 10 14 2016 10 16	Chengdu, China

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China	Xiamen University	Southeast University		5 5

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