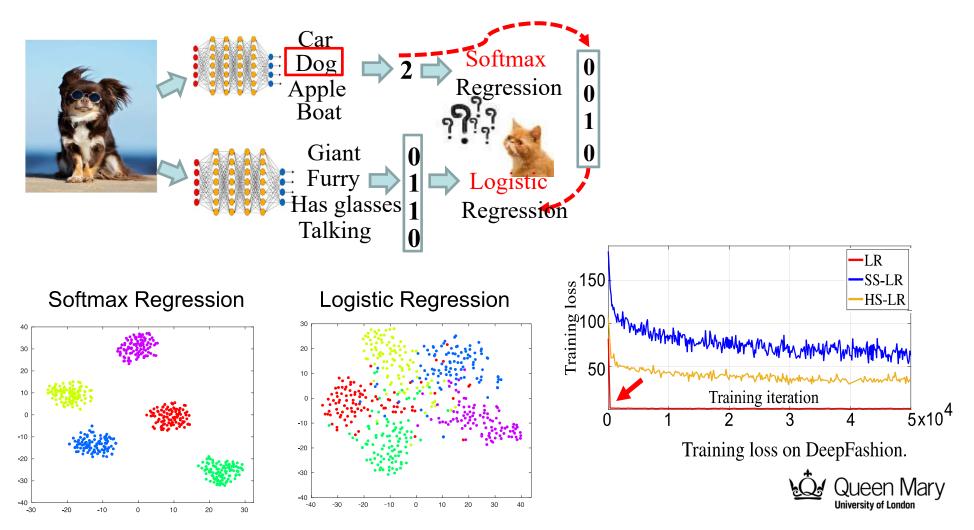
Single-label multi-class image classification by deep logistic regression

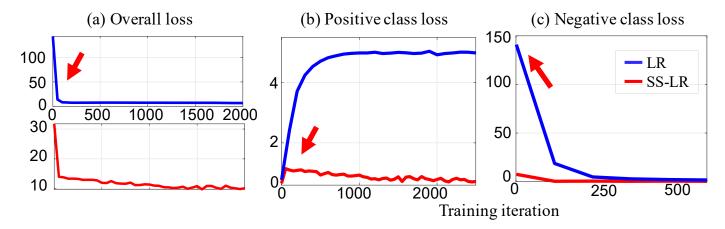
Qi (Grace) Dong





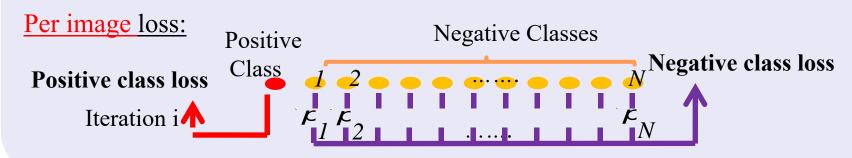
Negative Class Distraction

Imbalanced class number leads to biased optimisation.



Focus Rectification Logistic Regression

Select most confusing negative classes for per sample loss.

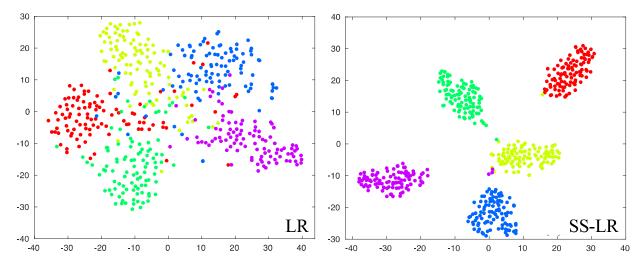






Three applications for evaluation

- Coarse-grained image classification
- Fine-grained zero-shot person re-identification
- Sparse multi-attribute recognition: Deep fashion



Paper/Slides/Poster/Code:

https://github.com/qd301/FocusRectificationLogisticRegression

Single-label Multi-class Image Classification by Deep Logistic Regression

Qi Dong, Xiatian Zhu, Shaogang Gong

Proc. of AAAI conference on Artificial Intelligence, Honolulu, USA, 27 January-1 February 2019



