

Deep learning image search



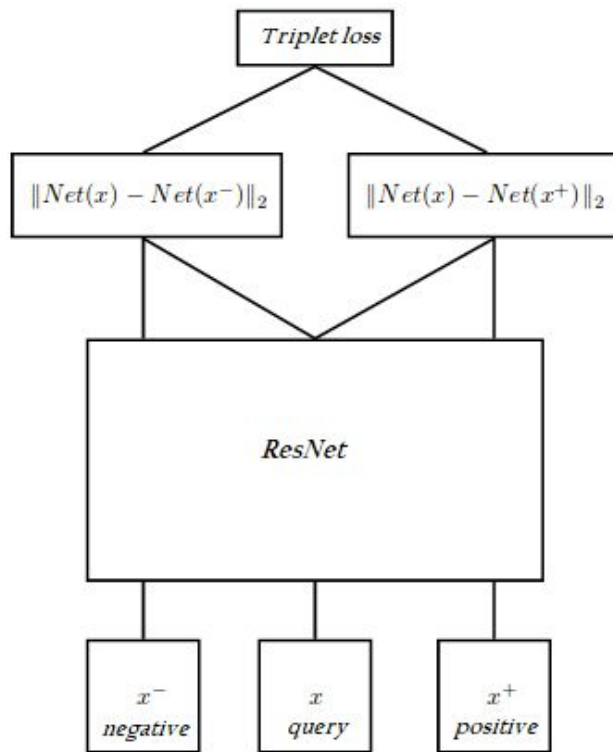
Josef Jon (xjonjo@stud.fit.vutbr.cz)

- data preparation and evaluation

Tomáš Sýkora (xsykor25@stud.fit.vutbr.cz)

- model and training

Architecture



Training

- *Places365* dataset for scene recognition
 - 500 classes of different places

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- Trained only the last (fully connected) layers in 2 epochs (1 day of training)
 - decreased training step in the 2nd epoch
 - attempt to hard mining

Mean average precision (MAP)

How good the average results list was?

Best results:

- 50 classes : 0.60 MAP
- 20 classes: 0.85 MAP

Problem of MAP on Places365



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Problem of MAP on Places365



badlands



desert



desert

Conclusion

- although not great MAP, results are reasonable

