The handle http://hdl.handle.net/1887/66480 holds various files of this Leiden University dissertation.

**Author:** Liu, Y.
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Bibliography

[44] Radenović, F., Tolias, G., Chum, O.: Cnn image retrieval learns from bow: Unsupervised
fine-tuning with hard examples. In: ECCV. (2016) 3–20


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[237] Cordts, M., Omran, M., Ramos, S., Rehfeld, T., Enzweiler, M., Benenson, R., Franke, U.,


# List of Abbreviations

<table>
<thead>
<tr>
<th>Abb.</th>
<th>Full Name</th>
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<tbody>
<tr>
<td>AP</td>
<td>Average Precision</td>
</tr>
<tr>
<td>BN</td>
<td>Batch Normalization</td>
</tr>
<tr>
<td>BoW</td>
<td>Bag of Words</td>
</tr>
<tr>
<td>CBIR</td>
<td>Content-based Image Retrieval</td>
</tr>
<tr>
<td>CBP</td>
<td>Compact Bilinear Pooling</td>
</tr>
<tr>
<td>CCA</td>
<td>Canonical Correlation Analysis</td>
</tr>
<tr>
<td>CFN</td>
<td>Convolutional Fusion Networks</td>
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<tr>
<td>cGAN</td>
<td>Conditional Generative Adversarial Networks</td>
</tr>
<tr>
<td>CNN</td>
<td>Convolutional Neural Networks</td>
</tr>
<tr>
<td>DSN</td>
<td>Deeply Supervised Networks</td>
</tr>
<tr>
<td>FC</td>
<td>Fully-connected Layer</td>
</tr>
<tr>
<td>FCFN</td>
<td>Fully Convolutional Fusion Networks</td>
</tr>
<tr>
<td>FCN</td>
<td>Fully Convolutional Networks</td>
</tr>
<tr>
<td>FFT</td>
<td>Fast Fourier Transformation</td>
</tr>
<tr>
<td>FV</td>
<td>Fisher Vector</td>
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<tr>
<td>GAN</td>
<td>Generative Adversarial Networks</td>
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<tr>
<td>GAP</td>
<td>Global Average Pooling</td>
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<tr>
<td>HGLMM</td>
<td>Hybrid Gaussian-Laplacian Mixture Model</td>
</tr>
<tr>
<td>I2I</td>
<td>Image-to-Image Translation</td>
</tr>
<tr>
<td>I2T</td>
<td>Image-to-Text Translation</td>
</tr>
<tr>
<td>IoU</td>
<td>Intersection over Union</td>
</tr>
<tr>
<td>IS</td>
<td>Inception Score</td>
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<tr>
<td>LC</td>
<td>Locally-connected Layer</td>
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<tr>
<td>LSGAN</td>
<td>Least Square Generative Adversarial Networks</td>
</tr>
<tr>
<td>LSTM</td>
<td>Long Short-Term Memory</td>
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<td>MA</td>
<td>Multiple Assignment</td>
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<tr>
<td>mAP</td>
<td>Mean Average Precision</td>
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<tr>
<td>MC-Net</td>
<td>Multi-modal Classification Network</td>
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<tr>
<td>MDS</td>
<td>Multi-Dimensional Scaling</td>
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<td>MM-Net</td>
<td>Multi-modal Matching Network</td>
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<tr>
<td>MMC-Net</td>
<td>Multi-modal Matching and Classification Network</td>
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<tr>
<td>NMS</td>
<td>Non-maximal Suppression</td>
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<td>ODS</td>
<td>Fixed Contour Threshold</td>
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<tr>
<td>OIS</td>
<td>Per-image Best Threshold</td>
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<tr>
<td>PCA</td>
<td>Principal Component Analysis</td>
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<td>RDS</td>
<td>Relaxed Deep Supervision</td>
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<td>ReLU</td>
<td>Rectified Linear Units</td>
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<td>RNN</td>
<td>Recurrent Neural Networks</td>
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<td>RRF</td>
<td>Recurrent Residual Fusion</td>
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<tr>
<td>SGD</td>
<td>Stochastic Gradient Descent</td>
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<td>SIFT</td>
<td>Scale Invariant Feature Transform</td>
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<tr>
<td>SVM</td>
<td>Support Vector Machine</td>
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<td>T2I</td>
<td>Text-to-Image Translation</td>
</tr>
<tr>
<td>TF</td>
<td>Term Frequency</td>
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<tr>
<td>TPS</td>
<td>Thin Plate Spline</td>
</tr>
<tr>
<td>t-SNE</td>
<td>t-Distributed Stochastic Neighbor Embedding</td>
</tr>
<tr>
<td>VLAD</td>
<td>Vector of Aggregate Locally Descriptor</td>
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