Abbreviations used in the article

The abbreviations used in this work are given below.

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| ML | Machine Learning |
| DL | Deep Learning |
| AE | Auto Encoders |
| CNN | Convolutional Neural Networks |
| ANN | Artificial Neural Networks |
| DBN | Deep Belief Networks |
| DCNN | Deep Convolutional Neural Networks |
| GAN | Generative Adversarial Networks |
| LSTM | Long Short Term Memory |
| MLP | Multi Layer Perceptrons |
| RNN | Recurrent Neural Networks |
| RBM | Restricted Boltzmann Machines |
| RBFN | Radial Basis Function Networks |
| SOM | Self Organizing Maps |
| SSD | Single Shot Detector |
| SVM | Support Vector Machine |
| RF | Random Forest |
| NiN | Network In Network |
| VGG | Visual Geometry Group |
| FCN | Fully Convolutional Networks |
| RCNN | Regions with Convolutional Neural Networks |
| SegNet | Semantic Segmentation Model |
| YOLO | You Only Look Once |
| IRCNN | Inception-Recurrent Convolutional Neural Networks |
| IRRCNN | Iterative Residual Refinement Convolutional Neural Networks |
| PSPNet | Pyramid Scene Parsing Network |
| DCRN | Deeply Recursive Convolutional Network |
| R2U-Net | Recurrent Residual Convolutional Neural Network based on U-Net |
| HCA | Hierarchical clustering analysis |
| PCA | Principal Component Analysis |
| PLS-DA | Partial Least Square- Discriminant Analysis |