**LITERATURE REVIEW**

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| Sr. No. | Name | Data Preprocessing | Model used | Remarks |
| 1. | [Image forgery detection using error level analysis and deep learning](https://www.researchgate.net/publication/332561655_Image_forgery_detection_using_error_level_analysis_and_deep_learning) | Image Normalization, ELA | VGG 16 | Training Accuracy: 92.2% Validation Accuracy: 88.46% |
| 2. | [Detection and localization of image forgeries using improved mask regional convolutional neural network](https://www.researchgate.net/publication/333266707_Detection_and_localization_of_image_forgeries_using_improved_mask_regional_convolutional_neural_network?enrichId=rgreq-f34efccfb4645b07b94a4272182c9a1e-XXX&enrichSource=Y292ZXJQYWdlOzMzMzI2NjcwNztBUzo5Mjg2MjgxMzcyNzk0ODlAMTU5ODQxMzYwOTg5Nw%3D%3D&el=1_x_3&_esc=publicationCoverPdf) | Synthetic dataset creation: using COCO dataset images to generate copy-move and splicing forgeries by copying and pasting objects within the same or different images. | Improved Mask R-CNN with Feature Pyramid Network (FPN) and ResNet-101 backbone. Sobel filter for edge detection. | Outperforms state-of-the-art methods with higher AP and F1 scores. More robust to JPEG compression and resizing attacks. AP improved from 0.713 to 0.769 with Sobel filter. Maintains 5 FPS processing speed​ |
| 3. | [Copy-Move Forgery Detection using Integrated DWT and](https://www.researchgate.net/publication/316667407_Copy-move_forgery_detection_using_integrated_DWT_and_SURF) | Discrete Wavelet Transform (DWT) to reduce image dimensions. | Combination of Discrete Wavelet Transform (DWT) and Speeded-Up Robust Features (SURF). | High accuracy (95%) in detecting copy-move forgery, especially with geometric transformations such as rotation and scaling​ |
| 4. | [Image Forgery Detection using Deep Learning: A Survey](https://ieeexplore.ieee.org/document/9074408) | Hand-crafted feature extraction techniques like DCT, DWT, PCA, SIFT, SURF for traditional methods. Data augmentation and normalization for deep learning. | CNNs, Multi-task Fully Convolutional Network (MFCN), Autoencoders, Stacked Autoencoders (SAE), RRU-Net, BusterNet. | Deep learning methods outperform traditional methods by learning complex features automatically. Requires large datasets and high computational power but provides superior performance in tampering detection and localization​ |