|  |  |
| --- | --- |
| **METHOD** | **4** |
| **SRCNN** | **4 EXPERIMENTS**  **4.1 Training Data**  **4.2 Learned Filters for Super-Resolution**  **4.3 Model and Performance Trade-offs**  **4.3.1 Filter Number**  **4.3.2 Filter Size**  **4.3.3 Number of layers**  **4.4 Comparisons to State-of-the-Arts**  **4.4.1 Quantitative and qualitative evaluation**  **4.4.2 Running time**  **4.5 Experiments on Color Channels** |
| **FSRCNN** | **4 Experiments**  **4.1 Implementation Details**    **Training dataset**    **Test and validation dataset**  **Training samples**  **Training strategy**  **4.2 Investigation of Different Settings**  **4.3 Towards Real-Time SR with FSRCNN**  **4.4 Experiments for Different Upscaling Factors**  **4.5 Comparison with State-of-the-Arts** |
| **VDSR** | **5. Experimental Results**  **5.1 Datasets for Training and Testing**  **Training dataset**  **Test dataset**  **5.2 Training Parameters**  **5.3. Benchmark**  **5.4 Comparisons with State-of-the-Art Methods** |
| **DRRN** | **4. Experiments**  **4.1. Datasets**  **4.2. Implementation Details**  **4.3 study of B and U**  **4.4 Comparison with State-of-the-Art Models**  **4.5 Discussion** |
| **Dense Skip Connection** | **4. Experiments**  **4.1 Datasets and metrics**  **4.2 Implementation details**  **4.3 Benefit of feature combination**  **4.4 Comparison with state-of-the-art methods** |
| **Deep Wavelet** | **4. Experimental Evaluation**  **4.1 Data Preparation**  **4.2 Training Settings**  **4.3 Convergence Speed**  **4.4 Comparison with State-of-the-Art**  **4.5 Large Scaling Factor SR Artifacts** |
| **Two Channel Convolution** | **4. Experiments and results**  **4.1 Datasets for Training and Testing**  **Training dataset**  **Testing dataset**  **Training**  **4.2 Experimental results**  **4.2.1 Image super-resolution results**  **Computational complexity**  **4.2.2 Highway real scene videos super-resolution results**  **4.2.3 Number of layers** |
| **Single Image SR Dilated** | **4. EXPERIMENTAL RESULTS**  **4.1. Datasets for Training and Testing**  **4.2. Implementing Details and Parameters**  **4.3 Comparison with State-of-the-Art Methods** |
| **Deep Back Projection** | **4. Experimental Results**  **4.1. Implementation and training details**  **4.2. Model analysis**  **Depth analysis**  **Number of parameters**  **Deep Concatenation**  **Dense connection**  **4.3 Comparison with the state-of-the-arts** |
| **Joint Conv: Pyramid** | **4. EXPERIMENTS AND APPLICATIONS**  **4.1. Training Settings**  **4.2. Pyramid Levels vs. Performance**  **4.3 Depth Map SR**  **4.4 Chromatically Map SR**  **4.5. Saliency Map SR** |
| **Deep Laplacian** | **4. Experiment Results**  **4.1. Model analysis**  **Residual Learning**  **Loss function**  **Pyramid structure**  **Network depth**  **4.2. Comparison with the state-of-the arts**  **4.3. Execution time**  **4.4. Super-resolving real-world photos**  **4.5. Super-resolving video sequences**  **4.6. Limitations** |
| **End to end Image** | **IV. EXPERIMENTS**   1. **Setup** 2. **Comparison with state-of-the-arts** 3. **Architecture Analysis** |
| **SR With Adaptive** | **4. Experiments**  **Datasets**  **Implementation details**  **4.1. Filter visualization**  **4.2. Ablation Study**  **Adaptive image re sampling**  **Large Upscaling factor**  **Recursive refinement**  **4.3 Comparison with state-of-the-art-methods**  **4.4. joint Image Filtering** |
| **Frequency Domain** | **6. Experiments**  **6.1. Datasets**  **6.2. Parameter Selection**  **6.3. Network Behavior**  **6.4. Results** |
| **Single Image ..Multiscale** | **4. Experimental Section**  **4.1. Datasets and Evaluation Criteria**  **4.2. Parameters and Performance**  **4.2.1. Filter Size and Performance**  **4.2.2 Epoch and Performance**  **4.3. Results** |