

## **DIP, DSP AND COMMUNICATION PROJECTS**

1. Online payment system using steganography and visual cryptography.
2. Image quality assessment based on inter patch and intra-patch similarity.
3. An improved method of audio denoising based on wavelet transform.
4. Satellite image resolution and brightness enhancement using discrete, stationary wavelet and singular value decomposition.
5. Removal of salt and pepper noise using advanced modified decision based unsymmetric trimmed median filter.
6. Improved image fusion algorithm based on wavelet transform in EFVS.
7. Image retrieval using interactive genetic algorithm.
8. Face detection using skin color modeling and geometric feature.
9. Digital watermarking in video for copy right protection.
10. Detection of fake currency using image processing.
11. Comparative performance analysis of digital image watermarking scheme in DWT and DWT-FWHTSVD domains.
12. Block based robust blind image watermarking using discrete wavelet transform audio steganography.
13. An improved technique for hiding data in audio.
14. A robust substitution technique to implement audio steganography.
15. A real time approach for secure text transmission using video cryptography.
16. A new secure image transmission technique via secret-fragment- visible mosaic images by nearly reversible color transformations.
17. Voice verification system using wavelets.
18. Moving object detection by detecting contiguous outliers in the low-rank representation.
19. Improved image fusion algorithm based on wavelet transform in EFVS.
20. Image retrieval based on YCBCR color histogram.
21. Image denoising using neighboring coefficients of nonsubsampling contourlet transform.

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22. Fast adaptive bilateral filtering with fixed parameters for sharpness enhancement and noise reduction.
23. Extracting spread-spectrum hidden data from digital media.
24. Design of digital video watermarking scheme using.
25. An effective fuzzy clustering algorithm for image segmentation.
26. Adaptive ct image segmentation using mathematical morphology.
27. A novel robust digital image watermarking algorithm based on two-level DCT.
28. Automatic image equalization and contrast enhancement using gaussian mixture modeling.
29. An improved empirical model for radar sea clutter reflectivit.
30. Speech enhancement based on a robust adaptive kalman filter.
31. Number plate recognition for use in different countries using an improved segmentation.
32. A wavelet based de-noising of the electro encephalogram (eeg) signal to correct for the presence of of the ocular artifact (OA).
33. A fast adaptive kalman filtering algorithm for speech enhancement.
34. A DWT based approach for steganography using biometrics.
35. Image retrieval using both color and texture features.
36. Image encryption using binary key-images.
37. Effective fuzzy clustering algorithm for abnormal MR brain image segmentation.
38. Adaptive fuzzy filtering for artifact reduction in compressed images and videos.
39. A robust image watermarking using two level DCT and wavelet packets denoising.
40. Non-parametric linear time-invariant system identification by DWT.
41. Linear array synthesis using an ant-colony-opti mization -based algorithm.
42. ECG signal denoising and base line wander correction based on the empirical modede composition.
43. Combined DWT-DCT digital image watermarking.
44. Adaptive bilateral filter for sharpness enhancement and noise removal.

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45. Vision approach of human detection and tracking using focus tracing analysis.
46. Super-resolution method for face recognition using nonlinear mappings on coherent features.
47. Stationary and non-stationary noise removal from cardiac signals using a constrained stability least mean square algorithm.
48. Salient motion features for video quality assessment.
49. Quality assessment of deblocked images.
50. Number plate recognition for use in different countries using an improved segmentation.
51. Lossless visible water marking by using translucent & opaque monochrome methods.
52. Image resolution enhancement by using discrete and stationary wavelet decomposition.
53. ECG signal denoising and base line wander correction based on the empirical.
54. Data hiding in motion vectors of compressed video based on their associated prediction error.
55. Combined Invariants To Similarity Transformation And To Blur Using Orthogonal Zernike Moments.
56. A high capacity CDMA watermarking scheme based on orthogonal pseudo random sequence subspace project.
57. Reversible data hiding based on histogram modification of pixel differences.
58. Image retrieval using both color and texture features.
59. Image encryption using binary key-images.
60. Identification of inpainted images and natural images for digital forensics.
61. Effective fuzzy clustering algorithm for abnormal mr brain image segmentation.
62. Compress compound images in H.264MPEG-4 AVC by fully exploiting spatial correlation.
63. An automatic wavelet-based nonlinear image enhancement technique for aerial imagery.

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64. A unified relevance feedback framework for web image retrieval.
65. A robust image watermarking using two level DCT and wavelet packets denoising.
66. Using gabor filters features for multi-pose face recognition in color images.
67. DWT-SVD based dual watermarking scheme.
68. Comparison and improvement of wavelet-based image fusion.
69. Investigation of fault-tolerant adaptive filtering for noisy ecg signals.
70. Adaptive bilateral filter for sharpness enhancement and noise removal.
71. Counterlet transform for image denoising.
72. An edge guided image interpolation algorithm via directional filtering and data fusion.
73. Score-aging calibration for speaker verification.



# **DIP, DSP AND COMMUNICATION PROJECTS**

## **COMMUNICATION**

- 1) COM2015-A simulation design of LTE communication system under adaptive modulation schemes
- 2) COM2013-A new family of low-complexity STBCS for four transmit antennas
- 3) COM2011-PAPR analysis of DHT-PRECODED OFDM system for M-QAM
- 4) COM2011-BEST-KNOWN autocorrelation peak side lobe levels for binary codes of length 71 TO 105
- 5) COM2011-adaptive overlap-and-add technique in MB-OFDM based UWB receiver design
- 6) COM2011-adaptive DS-CDMA receiver with code tracking in phase unknown environments
- 7) COM2011-adaptive active constellation extension algorithm for peak to average ratio reduction in OFDM
- 8) COM2011-A two-level FH-CDMA scheme for wireless communication systems over fading channels
- 9) COM2010-MIMO-OFDM channel estimation using pilot carries
- 10) COM2009-preamble-based SNR estimation in frequency selective channels for wireless OFDM systems
- 11) COM2008-development of a novel voice verification system using wavelets
- 12) performance of OFDM in time selective multipath fading channel in 4G systems
- 13) Compressive spectrum sensing for MIMO-OFDM based cognitive radio networks.
- 14) DFT based channel estimation analysis in OFDM supported wireless communication system
- 15) Implementation of orthogonal frequency division multiplexing for frequency selective fading channels.
- 16) A novel channel estimation error minimizing interpolation technique for OFDM systems.

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- 17) Pilot based pre FFT channel estimation for OFDM systems in rayleigh-fading channel.
- 18) Effect of doppler frequency and ber in FFT based OFDM system with rayleigh fading channel
- 19) A simulation design of LTE communication system under adaptive modulation schemes
- 20) A study of recursive least squares (RLS) adaptive filter algorithm in noise removal from ECG signals.



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