

# CITATION REPORT

List of articles citing

The nonsampled contourlet transform: theory, design, and applications

DOI: 10.1109/tip.2006.877507

IEEE Transactions on Image Processing, 2006, 15, 3089-101.

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**Version:** 2024-04-25

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#	Paper	IF	Citations
1443	Multidimensional Nonsampled Hourglass Filter Banks: Geometry of Passband Support and Filter Design. <b>2006</b> ,		3
1442	Optimally Sparse Image Representations using Shearlets. <b>2006</b> ,		26
1441	Contourlet-based image denoising algorithm using directional windows. <b>2007</b> , 43, 92		27
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1439	Research on Image Fusion Based on the Nonsampled Contourlet Transform. <b>2007</b> ,		6
1438	Image Denoising Using Hybrid Contourlet and Bandelet Transforms. <b>2007</b> ,		4
1437	An improved image denoising technique using cycle spinning. <b>2007</b> ,		1
1436	Study on Properties of Directional Filter Banks in the Dual Tree Scheme. <b>2007</b> ,		2
1435	An automatic image registration scheme based on the nonsampled contourlet transform. <b>2007</b> ,		2
1434	A simple method to build oversampled filter banks and tight frames. <i>IEEE Transactions on Image Processing</i> , <b>2007</b> , 16, 2682-7	8.7	7
1433	Low-complexity implementation of non-sampled directional filter banks using polyphase representations and generalized separable processing. <b>2007</b> ,		1
1432	The nonsampled contourlet transform for image fusion. <b>2007</b> ,		11
1431	Image fusion using a NSDFB-based contourlet packet. <b>2007</b> ,		
1430	Life Beyond Bases: The Advent of Frames (Part II). <b>2007</b> , 24, 115-125		105
1429	A new family of nonredundant transforms using hybrid wavelets and directional filter banks. <i>IEEE Transactions on Image Processing</i> , <b>2007</b> , 16, 1152-67	8.7	58
1428	Feature extraction for man-made objects segmentation in aerial images. <b>2008</b> , 19, 57-64		6
1427	Construction of 2-D directional filter bank by cascading checkerboard-shaped filter pair and CMFB. <b>2008</b> , 88, 2500-2510		1

1426	Image Fusion Algorithm Based on Spatial Frequency-Motivated Pulse Coupled Neural Networks in Nonsubsampled Contourlet Transform Domain. <b>2008</b> , 34, 1508-1514	230
1425	An Efficient Pan-Sharpening Method via a Combined Adaptive PCA Approach and Contourlets. <b>2008</b> , 46, 1323-1335	373
1424	Artificial immune kernel clustering network for unsupervised image segmentation. <b>2008</b> , 18, 455-461	16
1423	Context adaptive image denoising through modeling of curvelet domain statistics. <b>2008</b> , 17, 033021	25
1422	Fusion Algorithm for Remote Sensing Images Based on Nonsubsampled Contourlet Transform. <b>2008</b> , 34, 274-281	53
1421	. <b>2008</b> , 56, 1466-1478	1
1420	Synthetic aperture radar image despeckling via spatially adaptive shrinkage in the nonsubsampled contourlet transform domain. <b>2008</b> , 17, 013013	8
1419	Variational Bayesian image restoration based on a product of t-distributions image prior. <i>IEEE Transactions on Image Processing</i> , <b>2008</b> , 17, 1795-805	8.7 62
1418	A new multiresolution generalized directional filter bank design and application in image enhancement. <b>2008</b> ,	5
1417	Combined Wavelet and Contourlet Denoising of SAR Images. <b>2008</b> ,	8
1416	The Shiftable Complex Directional Pyramid Part I: Theoretical Aspects. <b>2008</b> , 56, 4651-4660	43
1415	Contourlet based image watermarking using optimum detector in the noisy environment. <b>2008</b> ,	3
1414	A Comparison of the Bandelet, Wavelet and Contourlet Transforms for Image Denoising. <b>2008</b> ,	3
1413	Nonsubsampled Pyramid Contourlet Transform and Its Application. <b>2008</b> ,	2
1412	Restoration of images corrupted by multiplicative noise in the nonsubsampled contourlet domain. <b>2008</b> ,	1
1411	Contourlet Based Interest Points Detector. <b>2008</b> ,	7
1410	Design and Application of All Phase Pyramidal Directional Filter Bank. <b>2008</b> ,	
1409	Adaptive Fingerprint Image Enhancement with Contourlet Transform. <b>2008</b> ,	1

1408 Fusion of Multi-band SAR Images Based on Nonsubsampled Contourlet and PCNN. **2008,**

1407 Infrared Image Denoising Algorithm Based on Adaptive Threshold NSCT. **2008,**

1

1406 SAR Image Despeckling in the Undecimated Contourlet Domain: A Comparison of Lmmse and Map Approaches. **2008,**

2

1405 The Sonar Image Denosing Method of Surfacelet Based on Sample Matrix. **2008,**

1404 The Nonsubsampled Contourlet-Wavelet Hybrid Transform: Design and Application to Image Watermarking. **2008,**

1403 Compressed sensing MRI based on nonsubsampled contourlet transform. **2008,**

7

1402 Improving PWF Method of Despeckle in Polarimetric SAR Image by Fusion Based on Nonsubsampled Contourlet Transform. **2008,**

2

1401 Pavement Distress Detection Based on Nonsubsampled Contourlet Transform. **2008,**

8

1400 Image Denoising with Nonsubsampled Wavelet-Based Contourlet Transform. **2008,**

3

1399 Texture Classification using Combined Multiresolution Transformations and Support Vector Machines. **2008,**

1398 Nonsubsampled Contourlet Transform for Texture Classifications using Support Vector Machines. **2008,**

3

1397 . **2008,** 56, 4661-4672

18

1396 Robust Fingerprint Image Enhancement: An Improvement to Directional Analysis of Fingerprint Image Using Directional Gaussian Filtering and Non-subsampled Contourlet Transform. **2008,**

2

1395 Implementational Aspects of the Contourlet Filter Bank and Application in Image Coding. **2008,** 2008,

3

1394 Illumination Normalization for Robust Face Recognition Based on Nonsubsampled Contourlet Transform. **2009,**

1

1393 Residue-based fusion of denoised images by different filter banks. **2009,**

1392 Texture image retrieval using adaptive directional wavelet transform. **2009,**

1391 Shearlet-based deconvolution. *IEEE Transactions on Image Processing*, **2009,** 18, 2673-85

8.7 51

1390	Dim Small Target Detection Method Based on Nonsubsampled Contourlet Transform in Infrared Image. <b>2009,</b>	1
1389	Medical Image Retrieval Based On Nonsubsampled Contourlet Transform and Fractal Dimension. <b>2009,</b>	2
1388	Image Denoising Method Based on Nonsubsampled Contourlet Transform and Bandelet Transform. <b>2009,</b>	3
1387	Texture Classification Using Nonsubsampled Contourlet Transform and LS-SVM. <b>2009,</b>	
1386	Regional Contrast Fuzzy Enhancement for Remote Sensing Image Based on the Generalized Fuzzy Set in Nonsubsampled Contourlet Domain. <b>2009,</b>	0
1385	A novel nonsampled contourlet-domain image watermarking using support vector regression. <b>2009</b> , 11, 125407	1
1384	Non-subsampled Contourlet Transform Based Seismic Signal De-noising. <b>2009,</b>	0
1383	Digital Images Clarity Quality Evaluation Using Non-subsampled Contourlet Transform. <b>2009,</b>	1
1382	A Modified Feature Based Image Watermarking Scheme in NSCT Domain. <b>2009,</b>	2
1381	A New Adaptive Image Denoising Method Combining the Nonsubsampled Contourlet Transform and Total Variation. <b>2009,</b>	0
1380	Image Enhancement Based on Nonsubsampled Contourlet Transform. <b>2009,</b>	1
1379	Semisubsampled wavelet transform based image watermarking. <b>2009,</b>	
1378	IMAGE FUSION ALGORITHM BASED ON NONSUBSAMPLED CONTOURLET TRANSFORM AND ESTIMATION THEORY. <b>2009,</b> 06, 109-116	
1377	Remote Sensing Image Fusion Based on Nonsubsampled Contourlet Transform and PCA. <b>2009,</b>	1
1376	NonSubsampled Contourlet Transform Combined with Energy Entropy for Remote Sensing Image Fusion. <b>2009,</b>	1
1375	Novel image fusion algorithm based on human perception. <b>2009,</b> 48, 047002	1
1374	ADAPTIVE SELECTIVITY REPRESENTATION: DESIGN AND APPLICATIONS. <b>2009,</b> 07, 89-113	3
1373	Directional filter for SAR images based on nonsubsampled contourlet transform and immune clonal selection. <b>2009,</b> 6, 245-253	5

1372	The Translation Invariant Contourlet-like Transform for Image Denoising. <b>2009</b> , 35, 505-508		3
1371	Fusion of Infrared and Visible Light Images Based on Region Segmentation. <b>2009</b> , 22, 75-80		18
1370	Comparisons of wavelets, contourlets and curvelets in seismic denoising. <b>2009</b> , 69, 103-115		70
1369	Multifocus image fusion using the nonsubsamped contourlet transform. <b>2009</b> , 89, 1334-1346		444
1368	MMSE and MAP estimators for reduction of multiplicative noise in the nonsubsamped contourlet domain. <b>2009</b> , 89, 1891-1901		16
1367	Robust feature points extraction for image registration based on the nonsubsamped contourlet transform. <b>2009</b> , 63, 148-152		11
1366	A parallel fusion algorithm of remote sensing images. <b>2009</b> ,		
1365	Nonsubsamped contourlet transform combined with genetic algorithms for registration of satellite imaging. <b>2009</b> ,		0
1364	SAR image despeckling using undecimated directional filter banks and mean shift. <b>2009</b> ,		0
1363	Texture Image Classification Using Non-subsamped Contourlet Transform and Support Vector Machines. <b>2009</b> ,		
1362	Shearlet-based total variation diffusion for denoising. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 260-8	8.7	153
1361	Wavelet-based SAR image despeckling and information extraction, using particle filter. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 2167-84	8.7	22
1360	Design of Directional Filter Banks With Arbitrary Number of Subbands. <b>2009</b> , 57, 4936-4941		7
1359	NSCTWavelet: An efficient method for multimodal biometric recognition based on pixel level fusion. <b>2009</b> ,		2
1358	The Nonsubsamped Contourlet Transform for Enhancement of Microcalcifications in Digital Mammograms. <b>2009</b> , 292-302		4
1357	Efficient design of a low redundant Discrete Shearlet Transform. <b>2009</b> ,		15
1356	Illumination and Posture Invariant Face Recognition Using Radon and Nonsubsamped Contourlet Transform. <b>2009</b> ,		0
1355	Road extraction in remote sensing images based on Nonsubsamped Contourlet Transform. <b>2009</b> ,		2

1354	Automatic Registration of Satellite Images. <b>2009,</b>	2
1353	Skin Detection Using Contourlet-Based Texture Analysis. <b>2009,</b>	12
1352	Unsupervised image segmentation based on Nonsubsampled Contourlet hidden Markov trees model. <b>2009,</b>	2
1351	SAR and Infrared Image Fusion Using Nonsubsampled Contourlet Transform. <b>2009,</b>	3
1350	A Novel Method for Ship Detection Based on NSCT and ACO. <b>2009,</b>	1
1349	A comparative study on texture features used for segmentation of images rich in texture. <b>2009,</b>	
1348	A Multi-Stage Astronomical Images Registration Based on Nonsubsampled Contourlet Transform. <b>2009,</b>	2
1347	Fusion of remotely sensed images based on subsampled contourlet transform and spectral response. <b>2009,</b>	1
1346	Adaptive Fusion Algorithm of Multisensor Image in Nonsubsampled Contourlet Domain. <b>2009,</b>	
1345	Speckle reduction of TerraSAR-X imagery using TV segmentation. <b>2009,</b>	
1344	Cooperative Fusion of Stationary Wavelet Transform and Non-subsampled Contourlet for Multifocus Images. <b>2009,</b>	
1343	Fusion Segmentation Algorithm for SAR Images Based on the Persistence and Clustering in the Contourlet Domain. <b>2009,</b>	3
1342	Bottle image de-noising using adaptive threshold based on nonsubsampled contourlet transform. <b>2010,</b>	1
1341	The discrete shearlet transform: a new directional transform and compactly supported shearlet frames. <i>IEEE Transactions on Image Processing</i> , <b>2010</b> , 19, 1166-80	8.7 266
1340	A wavelet-based image denoising using least squares support vector machine. <b>2010</b> , 23, 862-871	13
1339	Image fusion based on a new contourlet packet. <b>2010</b> , 11, 78-84	134
1338	Extraction of illumination invariant facial features from a single image using nonsubsampled contourlet transform. <b>2010</b> , 43, 4177-4189	49
1337	Simple multiscale image enhancement for natural images. <b>2010</b> , 17, 130-138	4

1336	A fusion algorithm for remote sensing images based on nonsub-sampled pyramids and bidimensional empirical decomposition. <b>2010</b> , 53, 196-204	4
1335	Image denoising employing local mixture models in sparse domains. <b>2010</b> , 4, 413	28
1334	Multifocus Image Fusion and Restoration With Sparse Representation. <b>2010</b> , 59, 884-892	397
1333	Dictionaries for Sparse Representation Modeling. <b>2010</b> , 98, 1045-1057	762
1332	Despeckling of TerraSAR-X Data Using Second-Generation Wavelets. <b>2010</b> , 7, 68-72	26
1331	Robust face recognition based on illumination invariant in nonsubsampling contourlet transform domain. <b>2010</b> , 73, 2217-2224	30
1330	Automatic wavelet base selection and its application to contrast enhancement. <b>2010</b> , 90, 1279-1289	23
1329	Invariant pattern recognition using contourlets and AdaBoost. <b>2010</b> , 43, 579-583	23
1328	A New Wavelet-based image denoising using undecimated discrete wavelet transform and least squares support vector machine. <b>2010</b> , 37, 7040-7049	50
1327	Rotation invariant watermark embedding based on scale-adapted characteristic regions. <b>2010</b> , 180, 2875-2888	29
1326	Image Denoising Algorithm Based on Dyadic Contourlet Transform. <b>2010</b> , 40-41, 591-597	1
1325	Image Fusion Based on NSCT and Fuzzy Logic. <b>2010</b> ,	1
1324	Fractional Fourier-Contourlet Deblurring of Space Variant Degradation Coupled with Noise. <b>2010</b> ,	
1323	Performance analysis of multiresolution image denoising schemes. <b>2010</b> ,	0
1322	A new approach for intermediate view synthesis based on NSCT and fusion. <b>2010</b> ,	
1321	A robust watermarking scheme based on Non-Subsampled Contourlet Transform. <b>2010</b> ,	1
1320	Image retrieval using Contourlet based interest points. <b>2010</b> ,	1
1319	Infrared and visible image fusion based on NSCT and fuzzy logic. <b>2010</b> ,	12

1318	A New Space Image Segmentation Method Based on the Non-Subsampled Contourlet Transform. <b>2010,</b>	
1317	QuickBird remotely sensing image fusion between panchromatic image and multispectral image using nonsubsampled contourlet transform. <b>2010,</b>	
1316	A new image segmentation combining hidden Markov trees model with Bayesian approach. <b>2010,</b>	
1315	SAR Images Despeckling via Bayesian Shrinkage Based on Nonsubsampled Contourlet Transform. <b>2010,</b>	
1314	Bayesian super-resolution pansharpening using contourlets. <b>2010,</b>	5
1313	Adaptive Robust Watermarking Scheme Based on the Features of the Coefficients in NSCT Domain. <b>2010,</b>	0
1312	Contourlet-S and Generalized Gaussian Model Texture Image Retrieval System. <b>2010,</b>	0
1311	Fusion of remote sensing images based on Principal Component Analysis and Nonsubsampled Contourlet Transform. <b>2010,</b>	
1310	A synergetic prototype vectors fusion reconstruction classification algorithm based on nonsubsampled contourlet transform. <b>2010,</b>	
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1308	Fusion of Multi-focus Images Based on the Nonsubsampled Contourlet Transform. <b>2010,</b>	
1307	Rotation-invariant Bivariate features for texture image retrieval. <b>2010,</b>	
1306	Fuzzy contrast enhancement for remote sensing image based on fuzzy set in nonsubsampled contourlet domain. <b>2010,</b>	4
1305	A rigid image registration based on the nonsubsampled contourlet transform and genetic algorithms. <b>2010,</b> 10, 8553-71	12
1304	Pan-sharpening of QuickBird satellite images using multiresolution techniques: wavelets, contourlets, and curvelets. <b>2010,</b> 58, 125-135	2
1303	Multiscale principal contour direction for varying lighting face recognition. <b>2010,</b> 46, 680	3
1302	Image fusion algorithm based on nonsubsampled contourlet transform. <b>2010,</b>	1
1301	A new multi-focus image fusion algorithm based on Nonsubsampled Contourlet Transform. <b>2010,</b>	

1300	Fusion of multispectral and panchromatic satellite images using Principal Component Analysis and Nonsubsampled Contourlet Transform. <b>2010</b> ,		5
1299	Texture description and recognition using combined feature sets. <b>2010</b> ,		
1298	Locally adaptive bivariate shrinkage algorithm for image denoising based on Nonsubsampled Contourlet Transform. <b>2010</b> ,		1
1297	. <b>2010</b> , 58, 3618-3634		35
1296	Optimization for the directional filter bank of the nonsubsampled contourlet transform. <b>2010</b> ,		0
1295	Remote sensing image interpolation via the nonsubsampled contourlet transform. <b>2010</b> ,		1
1294	Image inpainting based on nonsubsampled contourlet transform and total variation. <b>2010</b> ,		
1293	. <b>2010</b> ,		4
1292	. <b>2010</b> ,		
1291	Adaptive directional wavelet transform based on directional prefiltering. <i>IEEE Transactions on Image Processing</i> , <b>2010</b> , 19, 934-45	8.7	14
1290	Texture Image Retrieval System Based on Non-Subsampled Contourlet and Generalized Gaussian Density Model. <b>2010</b> ,		0
1289	Contourlet-based image watermarking using optimum detector in a noisy environment. <i>IEEE Transactions on Image Processing</i> , <b>2010</b> , 19, 967-80	8.7	108
1288	Pyramidal dual-tree directional filter bank based exposure fusion for two complementary images. <b>2010</b> ,		4
1287	Fusion for CT image and MR image based on nonsubsampled transformation. <b>2010</b> ,		
1286	Sparse Image Representation by Directionlets. <b>2010</b> , 161, 147-209		0
1285	Variational bayesian image restoration with a product of spatially weighted total variation image priors. <i>IEEE Transactions on Image Processing</i> , <b>2010</b> , 19, 351-62	8.7	110
1284	High capacity watermark embedding based on local invariant features. <b>2010</b> ,		1
1283	Image denoising and contrast enhancement based on nonsubsampled contourlet transform. <b>2010</b> ,		

1282	A color multi-focus image fusion algorithm with nonsubsamped Contourlet transform in space domain. <b>2010,</b>	1
1281	A Novel Medical Image Feature Extraction Algorithm. <b>2010,</b>	2
1280	Iterative thresholding compressed sensing MRI based on contourlet transform. <b>2010,</b> 18, 737-758	99
1279	Object Extraction Using Novel Region Merging and Multidimensional Features. <b>2010,</b>	3
1278	Multi-Spectral and Panchromatic Image Fusion Based on Region Correlation Coefficient in Nonsubsamped Contourlet Transform Domain. <b>2010,</b>	
1277	Hybrid Multiresolution Method for Multisensor Multimodal Image Fusion. <b>2010,</b> 10, 1519-1526	89
1276	Contourlet Retrieval System Using Absolute Mean and Kurtosis Features. <b>2010,</b>	
1275	Mixed image denoising method of non-local means and adaptive bayesian threshold estimation in NSCT domain. <b>2010,</b>	2
1274	An adaptive sparse representation for remote sensing image based on combination of wavelet and adaptive directional filter. <b>2010,</b>	2
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1272	A Non-Local Means Filter with Translating Invariant Shearlet Feature Descriptors. <b>2010,</b>	1
1271	Image Fusion Algorithm Based on Pulse Coupled Neural Networks and Nonsubsamped Contourlet Transform. <b>2010,</b>	2
1270	Variational Bayesian inference image restoration using a product of total variation-like image priors. <b>2010,</b>	1
1269	MR image monomodal registration based on the nonsubsamped contourlet transform and mutual information. <b>2010,</b>	3
1268	Interest points matching system based On Non-Subsamped Contourlet Transform. <b>2010,</b>	1
1267	Multiscale directional AM-FM demodulation of images using a 2D optimized method. <b>2011,</b>	
1266	Contourlet appearance model for facial age estimation. <b>2011,</b>	32
1265	A hybrid method for contrast enhancement. <b>2011,</b>	

- 1264 Improvement on Image Decomposition Based on Morphological Component Analysis. **2011**,
- 1263 A Contour-Based Approach to Image Compression. **2011**,
- 1262 An IHS Fusion Method Integrated by the Nonsubsampled Contourlet Transform to Fuse the Airborne X-Band InSAR and P-Band Full PolSAR Images. **2011**,
- 1261 Example-driven manifold priors for image deconvolution. *IEEE Transactions on Image Processing*, **2011**, 20, 3086-96 8.7 15
- 1260 Preliminary classification of palmprint-A novel approach. **2011**,
- 1259 Parameter estimation in Bayesian super-resolution pansharpening using contourlets. **2011**, 1
- 1258 . **2011**,
- 1257 Multitemporal Images Change Detection Using Nonsubsampled Contourlet Transform and Kernel Fuzzy C-Means Clustering. **2011**, 3
- 1256 Image Edge Detection Using Nonsubsampled Contourlet Transform. **2011**, 181-182, 261-266
- 1255 Image Fusion Based on Nonsubsampled Contourlet Transform and Pulse Coupled Neural Networks. **2011**, 3
- 1254 A New Technique for Multispectral and Panchromatic Image Fusion. **2011**, 24, 182-186 2
- 1253 Multi-temporal Satellite Images Change Detection Algorithm Based on NSCT. **2011**, 24, 252-256 5
- 1252 NSCT Remote Sensing Image Denoising Based on Threshold of Free Distributed FDR. **2011**, 24, 616-620 3
- 1251 Panchromatic and Multispectral Image Fusion Based on Maximization of Both Spectral and Spatial Similarities. **2011**, 49, 1976-1985 62
- 1250 CT-PCA Algorithm Based on Contourlet Transform and KPCA for Image Enhancement. **2011**, 615-621
- 1249 Poisson noise removal from images using the fast discrete Curvelet transform. **2011**, 2
- 1248 Compression of iris images using DTCNN based Wavelet decomposition and Directional Filter Bank analysis. **2011**,
- 1247 Kernel spectral regression of perceived age from hybrid facial features. **2011**, 4

1246	A New NSCT Based Contrast Enhancement Algorithm for Amplification of Early Signs of Ischemic Stroke in Brain CT Images. <b>2011</b> ,	
1245	Cell imaging beyond the diffraction limit using sparse deconvolution spatial light interference microscopy. <b>2011</b> , 2, 1815-27	20
1244	Fusion technique for grey-scale visible light and infrared images based on non-subsampled contourlet transform and intensity hue saturation transform. <b>2011</b> , 5, 75	27
1243	A normalization-based robust digital watermarking scheme using nonsubsamped contourlet transform. <b>2011</b> ,	
1242	Contour Code: Robust and efficient multispectral palmprint encoding for human recognition. <b>2011</b> ,	50
1241	A novel approach of infrared small weak target detection based on an improved nonsubsamped contourlet transform. <b>2011</b> ,	1
1240	Dual Tree Complex Contourlet Texture Image Retrieval. <b>2011</b> , 55-61	
1239	Shift and gray scale invariant features for palmprint identification using complex directional wavelet and local binary pattern. <b>2011</b> , 74, 3351-3360	33
1238	High Capacity Watermark Embedding Based on Invariant Regions of Visual Saliency. <b>2011</b> , E94-A, 889-893	4
1237	Multifocus image fusion scheme using focused region detection and multiresolution. <b>2011</b> , 284, 4376-4389	55
1236	A panorama on multiscale geometric representations, intertwining spatial, directional and frequency selectivity. <b>2011</b> , 91, 2699-2730	60
1235	Improved bi-dimensional empirical mode decomposition based on 2D-assisted signals: analysis and application. <b>2011</b> , 5, 205	21
1234	Relevance feedback approach for image retrieval combining support vector machines and adapted Gaussian mixture models. <b>2011</b> , 5, 531	9
1233	Image fusion technique based on non-subsampled contourlet transform and adaptive unit-fast-linking pulse-coupled neural network. <b>2011</b> , 5, 113	33
1232	Nonuniform directional filter banks with arbitrary frequency partitioning. <i>IEEE Transactions on Image Processing</i> , <b>2011</b> , 20, 283-8	8.7 13
1231	Image denoising using bilateral filter and Gaussian scale mixtures in shiftable complex directional pyramid domain. <b>2011</b> , 37, 656-668	18
1230	Geometrically invariant image watermarking using SVR correction in NSCT domain. <b>2011</b> , 37, 695-713	7
1229	An evident sidelobe control method based on NSCT for ship target in SAR images. <b>2011</b> , 28, 419-426	

1228	Image Denoising Using Gaussian Scale Mixtures with Gaussian Hermite PDF in Steerable Pyramid Domain. <b>2011</b> , 39, 245-258	3
1227	A new pan-sharpening method using multiobjective particle swarm optimization and the shiftable contourlet transform. <b>2011</b> , 66, 365-381	32
1226	Fusion of remote sensing images based on nonsubsampling contourlet transform and region segmentation. <b>2011</b> , 16, 722-727	4
1225	A multi-scale and multi-orientation image retrieval method based on rotation-invariant texture features. <b>2011</b> , 54, 732-744	5
1224	Statistical modeling for the detection, localization and extraction of text from heterogeneous textual images using combined feature scheme. <b>2011</b> , 5, 165-183	8
1223	A survey of classical methods and new trends in pansharpening of multispectral images. <b>2011</b> , 2011,	139
1222	Performance comparison of different multi-resolution transforms for image fusion. <b>2011</b> , 12, 74-84	374
1221	Biological image fusion using a NSCT based variable-weight method. <b>2011</b> , 12, 85-92	101
1220	A novel color image watermarking scheme in nonsampled contourlet-domain. <b>2011</b> , 38, 2081-2098	53
1219	Similarity-based multimodality image fusion with shiftable complex directional pyramid. <b>2011</b> , 32, 1544-1553	25
1218	Image denoising with anisotropic bivariate shrinkage. <b>2011</b> , 91, 2078-2090	24
1217	Nonlocal Patch Functional Minimization for Image Denoising Using Nonsampled Contourlet. <b>2011</b> ,	
1216	Simultaneous cartoon and texture reconstruction for image restoration by bivariate function. <b>2011</b> , 90, 1275-1289	1
1215	Design Image Retrieval Based on Nonsampled Contourlet Transform and Neural Networks. <b>2011</b> ,	
1214	Multi-sensor image fusion by NSCT-PCNN transform. <b>2011</b> ,	
1213	A new filter bank algorithm for enhancement of early signs of ischemic stroke in brain CT images. <b>2011</b> ,	1
1212	Remote sensing image fusion using Gramian as a rule of fusion. <b>2011</b> , 98, 279-287	4
1211	Image enhancement based on adaptive and fuzzy complex contourlet transform. <b>2011</b> ,	1

1210 . 2011,

1209 Improved fusion method for infrared and visible remote sensing imagery using NSCT. 2011, 1

1208 Material Texture Retrieval Using Contourlet-2.3 and Three Statistical Features. 2011, 233-235, 2495-2498 1

1207 Contourlet-1.3 Texture Retrieval Using Absolute Mean Energy and Kurtosis Features. 2011, 48-49, 327-330

1206 Wavelet-Contourlet Retrieval Using Energy and Kurtosis Features. 2011, 201-203, 2330-2333

1205 Fusion of complementary catadioptric panoramic images based on nonsubsamped contourlet transform. 2011, 50, 127002 6

1204 Image fusion scheme by combining local image structures and directive contrasts. 2011, 50, 077005 3

1203 NSCT De-Noising Algorithm Based on Image Partition and Noise Variance Estimation. 2011, 58-60, 1842-1846

1202 Multi-Frame Image Fusion Method Combining Spatial-Temporal Saliency Detection and NSCT. 2011, 403-408, 1927-1932

1201 Infrared and Visible Remote Sensing Imagery Fusion Based on Fuzzy Logic and NSCT. 2011, 148-149, 158-162

1200 Nonsubsamped contourlet transform-based algorithm for no-reference image quality assessment. 2011, 50, 067010

1199 Non-subsamped contourlet texture image retrieval system utilizing three features. 2011,

1198 . 2011,

1197 Non-subsamped contourlets and gray level co-occurrence matrix based images segmentation. 2011,

1196 A spot segmentation method of low contrast and strong noise based on NSCT and 2D histogram. 2011, 0

1195 An adaptive infrared image enhancement algorithm based on NSCT. 2011,

1194 NSCT-based image denoising using 3-D directional windows. 2011,

1193 Image super-resolution based on hybrid multiresolution analysis. 2011,

- 1192 A New Non-Aliasing Nonsampled Contourlet Transform. **2011**, 480-481, 893-898
- 1191 Automatic image enhancement using intrinsic geometrical information. **2012**, 48, 917 2
- 1190 A Separation Method of 3D Engineering Surface with Correlation Analysis of NSCT Sub-Bands. **2012**, 248, 443-449
- 1189 Contourlet-S Texture Image Retrieval System. **2012**, 433-440, 3408-3412
- 1188 Comparison of Two Texture Retrieval Algorithms. **2012**, 182-183, 1962-1966 1
- 1187 A Local Feature Based Fusion Algorithm for Fire Detection Image. **2012**, 588-589, 1081-1085 1
- 1186 A Novel Statistical Fusion Rule for Image Fusion in Non Subsampled Contourlet Transform Domain. **2012**, 367-376 1
- 1185 Study on Crack Detection System of PC Beam Surface. **2012**, 217-219, 2336-2340
- 1184 Contourlet-1.3 Texture Retrieval Algorithm by Sub-Bands Energy and Consistency. **2012**, 220-223, 2684-2687
- 1183 Improved image fusion method based on NSCT and accelerated NMF. **2012**, 12, 5872-87 23
- 1182 Semi-Subsampled Contourlet Retrieval Algorithm Using Three Statistical Features. **2012**, 433-440, 3117-3123
- 1181 Spatial Images Feature Extraction Based on Bayesian Nonlocal Means Filter and Improved Contourlet Transform. **2012**, 2012, 1-16 2
- 1180 Non-Subsampled Contourlet Texture Retrieval Using Four Estimators. **2012**, 263-266, 167-170 1
- 1179 An algorithm of remote sensing image fusion based on nonsampled contourlet transform. **2012**,
- 1178 Multi-sensor image fusion based on moment calculation. **2012**, 1
- 1177 Hyperbolic shearlets. **2012**, 1
- 1176 Image fusion based on nonsampled contourlet transform. **2012**, 2
- 1175 Multi-focus image fusion based on the non-sampled contourlet transform. **2012**, 59, 1355-1362 3

1174	Hyperspectral classification using selected contourlet subbands. <b>2012,</b>	
1173	Face recognition based on nonsubsamped contourlet transform and block-based kernel Fisher linear discriminant. <b>2012,</b>	5
1172	Image denoising with union of directional orthonormal DWTS. <b>2012,</b>	4
1171	Effective classification of radiographic medical images using LS-SVM and NSCT based retrieval system. <b>2012,</b>	2
1170	A Watermarking Scheme Based on NSCT Using Computer-Generated Hologram. <b>2012,</b> 263-266, 3100-3103	
1169	Variance Distribution and Energy Featured Non-Subsampled Contourlet Texture Retrieval. <b>2012,</b> 472-475, 893-896	
1168	Contourlet-S Retrieval Algorithm Using Absolute Mean Energy and Kurtosis Features. <b>2012,</b> 197, 473-476	0
1167	An Approach to Lumbar Vertebra CT Image Segmentation Using Contourlet Transform and ANNs. <b>2012,</b> 468-471, 613-618	1
1166	Active contour for noisy image segmentation based on contourlet transform. <b>2012,</b> 21, 013009	2
1165	Material Texture Contourlet Retrieval by Energy and Variance Distribution Features. <b>2012,</b> 562-564, 208-211	
1164	Palmprint feature extraction approach using nonsubsamped contourlet transform and orthogonal moments. <b>2012,</b>	2
1163	. <b>2012,</b> 5, 809-823	78
1162	Multitemporal Image Change Detection Using a Detail-Enhancing Approach With Nonsubsamped Contourlet Transform. <b>2012,</b> 9, 836-840	21
1161	Feature Extraction. <b>2012,</b> 123-217	
1160	. <b>2012,</b>	2
1159	Bionic vision-based synthetic aperture radar image edge detection method in non-subsamped contourlet transform domain. <b>2012,</b> 6, 526-535	6
1158	Image denoising by random walk with restart Kernel and non-subsamped contourlet transform. <b>2012,</b> 6, 148	5
1157	Enhancement of blood vessels in retinal imaging using the nonsubsamped contourlet transform. <b>2012,</b> 23, 423-436	5

1156	Nonsubsampled Contourlet Transform Based Classification of Microcalcification in Digital Mammograms. <b>2012</b> , 38, 622-631	3
1155	Multi-focus image fusion algorithm based on NSCT. <b>2012</b> ,	
1154	Image Denoising Method with Adaptive Bayes Threshold in Nonsubsampled Contourlet Domain. <b>2012</b> , 1, 512-518	10
1153	. <b>2012</b> ,	
1152	Underwater image de-noising algorithm based on Nonsubsampled Contourlet Transform and Total Variation. <b>2012</b> ,	3
1151	Spatially adaptive threshold for image denoising based on nonsubsampled contourlet transform. <b>2012</b> ,	
1150	Face recognition based on texture features using hybrid projection function. <b>2012</b> ,	1
1149	Non-subsampled contourlets based Synthetic Aperture Radar images segmentation. <b>2012</b> ,	
1148	C14. Estimation of the optimal set of parameters for PAN-sharpening of satellite images based on the Non-Sub-sampled Contourlet Transform. <b>2012</b> ,	
1147	Design and Application of a New Multiscale Multidirectional Non-subsampled Filter Bank. <b>2012</b> ,	0
1146	Image Fusion Based on NSCT and Bandelet Transform. <b>2012</b> ,	1
1145	Multi-temporal SAR images change detection based on nonsubsampled contourlet transform. <b>2012</b> ,	1
1144	Blood vessel segmentation in retinal images based on the nonsubsampled contourlet transform. <b>2012</b> ,	1
1143	Nonsubsampled Contourlet Transform based expectation maximization method for segmentation of images. <b>2012</b> ,	0
1142	A fusion method of multi-spectral image and panchromatic image based on NSCT and IHS transform. <b>2012</b> ,	1
1141	Texture classification using reduced set of nonsubsampled contourlet transform features. <b>2012</b> ,	1
1140	Fusion algorithm of infrared and visible images based on local energy using NSCT. <b>2012</b> ,	
1139	A new automatic segmentation method for lung tumor based on SUV threshold on 18F-FDG PET images. <b>2012</b> ,	1

1138	Multi-focus image fusion based on nonsubsamped contourlet transform and multi-objective optimization. <b>2012,</b>		
1137	SAR and panchromatic image fusion based on region features in nonsubsamped contourlet transform domain. <b>2012,</b>		2
1136	Detecting for the aerial small target in infrared image based on the correlation coefficients of nonsubsamped contourlet transform. <b>2012,</b>		1
1135	Affine invariant image watermarking using intensity probability density-based Harris Laplace detector. <b>2012, 23, 892-907</b>		15
1134	Illumination Invariant Face Recognition Based on Nonsubsamped Contourlet Transform and NeighShrink Denoise. <b>2012, 358-366</b>		1
1133	A method of multispectral finger-vein image fusion. <b>2012,</b>		1
1132	A high capacity and strong robust fingerprinting for compressed images. <b>2012, 38, 1249-1261</b>		1
1131	Image Fusion Algorithm Based on Simplified PCNN in Nonsubsamped Contourlet Transform Domain. <b>2012, 29, 1434-1438</b>		13
1130	An efficient PAN sharpening technique by merging two hybrid approaches. <b>2012, 30, 535-541</b>		11
1129	NSCT-based multimodal medical image fusion using pulse-coupled neural network and modified spatial frequency. <b>2012, 50, 1105-14</b>		102
1128	A Flexible Directional Image Representation Using Pseudo Polar Fourier Transform Based DFBs. <b>2012, 686-696</b>		
1127	A New Method to Segment X-Ray Microtomography Images of Lamellar Titanium Alloy Based on Directional Filter Banks and Gray Level Gradient. <b>2012, 105-112</b>		1
1126	Hyperspectral feature extraction using contourlet transform. <b>2012,</b>		0
1125	. <b>2012,</b>		1
1124	Contrast-enhanced fusion of multi-sensor images using subband-decomposed multiscale retinex. <i>IEEE Transactions on Image Processing, 2012, 21, 3479-90</i>	8.7	47
1123	An Algorithm of Infrared and Visible Light Images Fusion Based on Infrared Object Extraction. <b>2012, 159-165</b>		
1122	Multi-focus image fusion algorithm based on UDCT. <b>2012,</b>		
1121	Improved registration method for infrared and visible remote sensing image using NSCT and SIFT. <b>2012,</b>		4

1120	Image fusion based on principal component analysis in dual-tree complex wavelet transform domain. <b>2012,</b>		1
1119	A novel image fusion algorithm based on an improved compressed sensing. <b>2012,</b>		
1118	Research on similarity measurement for texture image retrieval. <b>2012,</b> 7, e45302		5
1117	Watermark performance contrast between contourlet and non-subsampled contourlet transform. <b>2012,</b>		1
1116	A new SVM-based image watermarking using Gaussian Hermite moments. <b>2012,</b> 12, 887-903		31
1115	Multiscaled combination of MR and SPECT images in neuroimaging: A simplex method based variable-weight fusion. <b>2012,</b> 105, 31-9		14
1114	Multifocus image fusion based on features contrast of multiscale products in nonsubsampling contourlet transform domain. <b>2012,</b> 123, 569-581		55
1113	Intensity image denoising for laser active imaging system using nonsubsampling contourlet transform and SURE approach. <b>2012,</b> 123, 808-813		7
1112	Pixel-level image fusion with simultaneous orthogonal matching pursuit. <b>2012,</b> 13, 10-19		239
1111	The multiscale directional bilateral filter and its application to multisensor image fusion. <b>2012,</b> 13, 196-206		90
1110	Grey theory applied in non-subsampling Contourlet transform. <b>2012,</b> 6, 264		10
1109	Self-embedding fragile watermarking with restoration capability based on adaptive bit allocation mechanism. <b>2012,</b> 92, 1137-1150		86
1108	An Multi-scale Edge Detection Approach. <b>2012,</b> 25, 1616-1620		1
1107	Bayesian texture classification based on contourlet transform and BYY harmony learning of Poisson mixtures. <i>IEEE Transactions on Image Processing</i> , <b>2012,</b> 21, 909-18	8.7	24
1106	Directional lapped orthogonal transform: theory and design. <i>IEEE Transactions on Image Processing</i> , <b>2012,</b> 21, 2434-48	8.7	27
1105	Multifocus image fusion scheme based on feature contrast in the lifting stationary wavelet domain. <b>2012,</b> 2012,		6
1104	Image fusion scheme based on nonsubsampling contourlet and block-based cosine transform. <b>2012,</b> 17, 8-12		1
1103	Construction of Compactly Supported Shearlet Frames. <b>2012,</b> 35, 21-72		89

1102	Image inpainting with nonsubsampling contourlet transform. <b>2013</b> , 34, 1508-1518		5
1101	A new fusion scheme for multifocus images based on focused pixels detection. <b>2013</b> , 24, 1167-1181		16
1100	. <b>2013</b> , 15, 1014-1024		250
1099	Wavelet-based denoising: A brief review. <b>2013</b> ,		11
1098	A multi-focus image fusion algorithm based on an improved dual-channel PCNN in NSCT domain. <b>2013</b> , 124, 4104-4109		22
1097	Improved image enhancement method for flotation froth image based on parameter extraction. <b>2013</b> , 20, 1602-1609		3
1096	Fusion framework for multi-focus images based on compressed sensing. <b>2013</b> , 7, 290-299		12
1095	A Color Digital Watermarking in Nonsampled Contourlet Domain Using Generic Algorithm. <b>2013</b> ,		2
1094	Image denoising by non-subsampling shearlet domain multivariate model and its method noise thresholding. <b>2013</b> , 124, 5756-5760		11
1093	Multiscale image fusion using the undecimated wavelet transform with spectral factorization and nonorthogonal filter banks. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 1005-17	8.7	65
1092	Image denoising using SVM classification in nonsubsampling contourlet transform domain. <b>2013</b> , 246, 155-176		44
1091	An Adaptive Threshold Method Based on the Local Energy of NSCT Coefficients for Image Denoising. <b>2013</b> , 279-285		
1090	Infrared and visible image fusion based on region of interest detection and nonsubsampling contourlet transform. <b>2013</b> , 18, 526-534		5
1089	Local thresholding with adaptive window shrinkage in the contourlet domain for image denoising. <b>2013</b> , 56, 1-9		10
1088	Image restoration with dual-prior constraint models based on Split Bregman. <b>2013</b> , 20, 491-495		9
1087	Mutual spectral residual approach for multifocus image fusion. <b>2013</b> , 23, 1121-1135		29
1086	The Color Fusion of Infrared and Visual Images Based on NSCT. <b>2013</b> ,		1
1085	An Improved Scheme for Watermarking QR-code Based on SVD in NSCT-CT. <b>2013</b> ,		

1084	Deformed iris recognition using bandpass geometric features and lowpass ordinal features. <b>2013,</b>	5
1083	A study on NSCT based super-resolution reconstruction for infrared image. <b>2013,</b>	1
1082	Fusing Local Patterns of Gabor and Non-subsampled Contourlet Transform for Face Recognition. <b>2013,</b>	4
1081	A fractional Fourier transform based method of image fusion. <b>2013,</b>	3
1080	Multimodal image fusion in Visual Sensor Networks. <b>2013,</b>	4
1079	Multiscale spectral-spatial classification for hyperspectral imagery. <b>2013,</b>	
1078	Image quality assessment based on nonsubsampling contourlet transform and structural similarity. <b>2013,</b>	
1077	Image De-Noising Algorithm Using Adaptive Bayes Threshold by Subband Based on Nonsubsampling Contourlet Transform. <b>2013,</b>	0
1076	Pan-sharpening based on Non-subsampling Contourlet Transform detail extraction. <b>2013,</b>	2
1075	Unsupervised change detection in multitemporal SAR images via NSCT-domain feature clustering. <b>2013,</b>	2
1074	Multi-focus image fusion based on nonsubsampling contourlet transform and focused regions detection. <b>2013,</b> 124, 40-51	62
1073	A multifocus image fusion method by using hidden Markov model. <b>2013,</b> 287, 63-72	29
1072	Sharpening enhancement of ultrasound images using contourlet transform. <b>2013,</b> 124, 4789-4792	10
1071	Medical Image Fusion in Compressed Sensing Based on Non-subsampling Contourlet Transform. <b>2013,</b>	1
1070	Technique for image fusion between gray-scale visual light and infrared images based on NSST and improved RF. <b>2013,</b> 124, 6423-6431	23
1069	Tunable-Q contourlet-based multi-sensor image fusion. <b>2013,</b> 93, 1879-1891	16
1068	Contourlet based seismic reflection data non-local noise suppression. <b>2013,</b> 95, 16-22	11
1067	Image denoising using trivariate prior model in nonsubsampling dual-tree complex contourlet transform domain and non-local means filter in spatial domain. <b>2013,</b> 124, 6896-6904	17

1066	Technique for image fusion based on NSST domain improved fast non-classical RF. <b>2013</b> , 61, 27-36	16
1065	Image fusion based on nonsubsamped contourlet transform for infrared and visible light image. <b>2013</b> , 61, 94-100	69
1064	Nonseparable shearlet transform. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 2056-65	8.7 65
1063	Combining Superresolution and Fusion Methods for Sharpening Misrsat-1 Data. <b>2013</b> , 51, 2292-2301	1
1062	SAR image multiclass segmentation using a multiscale and multidirection triplet Markov fields model in nonsubsamped contourlet transform domain. <b>2013</b> , 14, 441-449	13
1061	Pectoral muscle segmentation in mammograms based on homogenous texture and intensity deviation. <b>2013</b> , 46, 681-691	32
1060	Speckle reduction in SAR images via Shearlet transform-based thresholding. <b>2013</b> ,	1
1059	Pansharpening via sparsity optimization using overcomplete transforms. <b>2013</b> ,	2
1058	Region-based multi-focus image fusion using the local spatial frequency. <b>2013</b> ,	12
1057	Image fusion method and robustness test based on multiscale decomposition and spiking cortical model. <b>2013</b> ,	
1056	Multi-focus image fusion based on non-subsamped shearlet transform. <b>2013</b> , 7, 633-639	103
1055	Survey on pixel level image fusion techniques. <b>2013</b> ,	4
1054	A Neuro-Fuzzy Approach for Medical Image Fusion. <b>2013</b> , 60, 3347-53	91
1053	Medical image fusion techniques for remote surgery. <b>2013</b> ,	1
1052	Image Fusion Based on Nonsubsamped Contourlet Transform and Saliency-Motivated Pulse Coupled Neural Networks. <b>2013</b> , 2013, 1-10	12
1051	Contourlet transform-based sharpening enhancement of retinal images and vessel extraction application. <b>2013</b> , 58, 87-96	6
1050	Multi-sensor image fusion based on NSST domain I2CM. <b>2013</b> , 49, 802-803	18
1049	A Novel Fusion Method Using NSCT and PCNN. <b>2013</b> , 380-384, 3994-3997	1

1048	A novel multi-modal medical image fusion method based on shift-invariant shearlet transform. <b>2013</b> , 61, 529-540	8
1047	A New Image Fusion Method Based on Improved PCNN and Multiscale Decomposition. <b>2013</b> , 834-836, 1011-1015	2
1046	A Novel Image Fusion Method Based on FRFT-NSCT. <b>2013</b> , 2013, 1-9	12
1045	Contourlet-1.3 Texture Retrieval with Energy, Standard Deviation and Kurtosis. <b>2013</b> , 446-447, 1347-1352	
1044	Image fusion scheme based on modified dual pulse coupled neural network. <b>2013</b> , 7, 407-414	29
1043	An Improved Compressive Sensing Image Fusion Algorithm Based on NSCT Transform. <b>2013</b> , 433-435, 306-309	1
1042	Center-Symmetric Local Nonsampled Contourlet Transform Binary Pattern Histogram Sequence for Face Recognition. <b>2013</b> , 433-435, 405-411	
1041	A New Fusion Method of Multispectral and Panchromatic Image Based on NSCT and HIS Transform. <b>2013</b> , 462-463, 443-447	
1040	Fusion Algorithm for Terahertz and Visible Light Images Based on Region Segmentation and NSCT. <b>2013</b> , 373-375, 613-618	
1039	Multifocus Image Fusion Based on Multiresolution Transform and Particle Swarm Optimization. <b>2013</b> , 756-759, 3281-3285	4
1038	Multi-Features Fusion Algorithm Based on NSCT for Face Recognition. <b>2013</b> , 753-755, 2967-2970	
1037	Pixel-Level Image Fusion Based on Programmable GPU. <b>2013</b> , 347-350, 3872-3876	
1036	An Image Fusion Algorithm Based on NSCT. <b>2013</b> , 427-429, 1589-1592	
1035	Fusion of SAR Image Using Stationary Contourlet Transform. <b>2013</b> , 462-463, 373-377	
1034	Multispectral and panchromatic image fusion based on unsubsampled contourlet transform. <b>2013</b> ,	
1033	An Effective Image Fusion Method Based on Nonsampled Contourlet Transform and Pulse Coupled Neural Network. <b>2013</b> , 756-759, 3542-3548	3
1032	Segmentation improvement of pig contour based on registration and fusion of IR thermal and optical images. <b>2013</b> ,	1
1031	A Unifying Parametric Framework for 2D Steerable Wavelet Transforms. <b>2013</b> , 6, 102-135	53

1030	Multimodal image fusion via sparse representation with local patch dictionaries. <b>2013,</b>	1
1029	Sharpness for texture retrieval in multiscale domain. <b>2013,</b>	
1028	Multispectral Palmprint Recognition Using Score-Level Fusion. <b>2013,</b>	3
1027	Research on edge detection algorithm for plate image. <b>2013,</b>	1
1026	A New Image Watermarking Algorithm Using NSCT and Harris Detector in Green Manufacturing. <b>2013,</b> 340, 277-282	2
1025	Fusion of the multispectral image and the panchromatic image based on nonsubsamped contourlet transform. <b>2013,</b>	
1024	Medical Images Fusion Using Parameterized Logarithmic Image Processing Model and Wavelet Sub-band Selection Schemes. <b>2013,</b> 469-477	1
1023	Image denoising using redundant finer directional wavelet transform. <b>2013,</b>	0
1022	An effective method for night time video enhancement. <b>2013,</b>	
1021	Fusion of multisensor images using Nonsubsampled Contourlet Transform and Fuzzy Logic. <b>2013,</b>	6
1020	A fast, low complexity image fusion algorithm based on multiscale transforms. <b>2013,</b>	2
1019	SAR image denoising in nonsubsamped contourlet transform domain based on maximum a posteriori and non-local constraint. <b>2013,</b> 4, 270-278	6
1018	FUSION OF MULTISPECTRAL AND PANCHROMATIC IMAGES BASED ON THE NONSUBSAMPLED CONTOURLET TRANSFORM. <b>2013,</b> 13, 1350010	0
1017	Multi-Modality Image Fusion Using the Nonsubsampled Contourlet Transform. <b>2013,</b> E96.D, 2215-2223	1
1016	Improved Nonsubsampled Contourlet Transform for Multi-sensor Image Registration. <b>2013,</b> 79, 51-66	1
1015	Feature-Based Image Fusion with a Uniform Discrete Curvelet Transform. <b>2013,</b> 10, 255	2
1014	Multiscale spectral-spatial hyperspectral classification using Multilinear PCA and contourlet transform. <b>2013,</b>	
1013	Anisotropic Diffusion for Details Enhancement in Multiexposure Image Fusion. <b>2013,</b> 2013, 1-18	9

1012	Multi-Focus Image Fusion Using the Local Fractal Dimension. <b>2013</b> , 10, 251	1
1011	An efficient image compressor for charge coupled devices camera. <b>2014</b> , 2014, 840762	3
1010	Nonlocal image denoising via collaborative spatial-domain LMMSE estimation. <b>2014</b> ,	1
1009	Medical image fusion using enhanced gradient exposure bracketed pairs. <b>2014</b> ,	
1008	. <b>2014</b> ,	18
1007	Multimodality medical image fusion based on new features in NSST domain. <b>2014</b> , 4, 414-424	40
1006	Fusion algorithm of infrared and visible images based on NSCT and PCNN. <b>2014</b> ,	0
1005	CAD for detection of microcalcification and classification in mammograms. <b>2014</b> ,	
1004	A new approach of image enhancement based on improved fuzzy domain algorithm. <b>2014</b> ,	2
1003	An improved visible and Infrared image fusion based on local energy and fuzzy logic. <b>2014</b> ,	3
1002	Design of extrafine complex directional wavelet transform and application to image denoising. <b>2014</b> ,	
1001	A Multi-View Sonar Image Fusion Method Based on Nonsubsampled Contourlet Transform and Morphological Modification. <b>2014</b> , 530-531, 567-570	1
1000	Analysis of Three-Dimensional Reality Modeling Algorithm in Animation Design. <b>2014</b> , 602-605, 3235-3238	
999	A Novel Image Fusion Method Using Non-Subsampled Shearlet Transform. <b>2014</b> , 668-669, 1033-1036	
998	Dual-tree complex wavelet transform and image block residual-based multi-focus image fusion in visual sensor networks. <b>2014</b> , 14, 22408-30	22
997	Fusion of Visual and Infrared Image Based on NSCT. <b>2014</b> , 568-570, 643-646	0
996	A Novel Blind Watermark Extraction Algorithm Based on Nonsubsampled Contourlet Transform. <b>2014</b> , 989-994, 1901-1904	
995	Robust Edge Detection Based on Anisotropic Mathematical Morphology and Scale Multiplication in NSCT Domain. <b>2014</b> , 595, 289-294	

994	Detail-Enhanced Multimodal Medical Image Fusion. <b>2014,</b>	0
993	Shift-invariant Non-aliasing Multiscale Geometric Analysis Filter Banks. <b>2014,</b>	
992	The Nonlocal Sparse Reconstruction Algorithm by Similarity Measurement with Shearlet Feature Vector. <b>2014,</b> 2014, 1-8	12
991	Log-Gabor energy based multimodal medical image fusion in NSCT domain. <b>2014,</b> 2014, 835481	31
990	Non-subsampled contourlet transform based image Denoising in ultrasound thyroid images using adaptive binary morphological operations. <b>2014,</b> 8, 718-728	13
989	A Novel Approach for Image Enhancement via Nonsubsampled Contourlet Transform. <b>2014,</b> 23, 345-355	1
988	A New Ultrasound Image Denoising Method Combining Nonsubsampled Contourlet Transform and Edge-Preserving Self-Snake Model. <b>2014,</b> 971-973, 1495-1498	
987	Fusion of visible and infrared images based on spiking cortical model in nonsubsampled contourlet transform domain. <b>2014,</b>	1
986	Image enhancement in spatial domain: A comprehensive study. <b>2014,</b>	9
985	High-quality fusion for visible and infrared images based on the double NSCT. <b>2014,</b>	1
984	Research on fabric defect detection via different filters combination in NSCT. <b>2014,</b>	1
983	A novel video denoising algorithm in communication base station monitoring system. <b>2014,</b>	
982	Multifocus Image Fusion Based on NSCT and Focused Area Detection. <b>2014,</b> 1-1	48
981	Image Fusion Using Region Segmentation and Sigmoid Function. <b>2014,</b>	5
980	Stochastic extraction of elongated curvilinear structures with applications. <i>IEEE Transactions on Image Processing</i> , <b>2014,</b> 23, 5360-73	8.7 6
979	Improvement of Benign and Malignant Probability Detection Based on Non-subsample Contourlet Transform and Super-resolution. <b>2014,</b>	0
978	The remote sensing image enhancement based on nonsubsampled contourlet transform and unsharp masking. <b>2014,</b> 26, 742-747	5
977	Medical image fusion using combination of PCA and wavelet analysis. <b>2014,</b>	32

- 976 Retargeting pyramid using direct decimation. **2014**, 1
- 975 Structured dictionary learning with 2-D non-separable oversampled lapped transform. **2014**, 5
- 974 A quasi-local method for instantaneous frequency estimation with application to structural magnetic resonance images. **2014**, 2014, 1477-80
- 973 Two new methods based on contourlet transform for despeckling synthetic aperture radar images. **2014**, 8, 083604 3
- 972 Research on compressive fusion for remote sensing images. **2014**,
- 971 Coefficient Feature Extraction and Analysis on SAR Image with Non-Subsampled Contourlet Transform. **2014**, 1073-1076, 1982-1986
- 970 Image Fusion Algorithm Based on Contourlet Transform. **2014**, 1044-1045, 1173-1177
- 969 An infrared polarization image fusion method based on NSCT and fuzzy C-means clustering segmentation algorithms. **2014**,
- 968 NSCT-NLmeans based CS reconstruction for noisy image. **2014**, 0
- 967 An Improved Medical Image Fusion Method Based on Nonsubsampled Contourlet Transform. **2014**, 989-994, 1082-1087
- 966 NSCT-Based Image Enhancement Combing Homomorphic Filtering with Fuzzy Theory. **2014**, 989-994, 4136-4139
- 965 Image fusion algorithm based on redundant-lifting NSWMDA and adaptive PCNN. **2014**,
- 964 Novel Infrared and Visible Images Fusion Algorithm Based on NSCT. **2014**, 989-994, 3763-3767
- 963 A robust image watermarking scheme with kinoform in hybrid NSCT and SVD domain. **2014**, 2
- 962 Medical Ultrasound Image Denoising Algorithm Based on Nosubsampled Contourlet Transform. **2014**, 644-650, 3999-4004
- 961 Fast Algorithm for Nonsubsampled Contourlet Transform. **2014**, 40, 757-762 8
- 960 Multi-scale weighted gradient-based fusion for multi-focus images. **2014**, 20, 60-72 209
- 959 Directional Multiscale Processing of Images Using Wavelets with Composite Dilations. **2014**, 48, 13-34 8

958	Image fusion with morphological component analysis. <b>2014</b> , 18, 107-118		75
957	Despeckling SAR images based on a new probabilistic model in nonsubsamped contourlet transform domain. <b>2014</b> , 8, 1459-1474		5
956	PM equation based multiscale decomposition and its application to image fusion. <b>2014</b> , 17, 167-178		4
955	Image Fusion by Hierarchical Joint Sparse Representation. <b>2014</b> , 6, 281-292		20
954	Noise reduction of welding defect image based on NSCT and anisotropic diffusion. <b>2014</b> , 20, 60-65		0
953	CT and MR image fusion scheme in nonsubsamped contourlet transform domain. <b>2014</b> , 27, 407-18		61
952	Attribute relation learning for zero-shot classification. <b>2014</b> , 139, 34-46		39
951	Patch based image denoising using the finite ridgelet transform for less artifacts. <b>2014</b> , 25, 1006-1017		11
950	Discrete Multi-Scale Transforms in Signal Processing. <b>2014</b> , 1, 467-560		
949	Image fusion based on shearlet transform and regional features. <b>2014</b> , 68, 471-477		43
948	A novel image fusion algorithm based on nonsubsamped shearlet transform. <b>2014</b> , 125, 2274-2282		64
947	Translation invariant directional framelet transform combined with Gabor filters for image denoising. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 44-55	8.7	20
946	Image fusion using multiscale edge-preserving decomposition based on weighted least squares filter. <b>2014</b> , 8, 183-190		53
945	Novel fusion method for visible light and infrared images based on NSSTBFBCNN. <b>2014</b> , 65, 103-112		120
944	Multi-modal medical image fusion using the inter-scale and intra-scale dependencies between image shift-invariant shearlet coefficients. <b>2014</b> , 19, 20-28		112
943	Image fusion using intuitionistic fuzzy sets. <b>2014</b> , 20, 21-30		78
942	Nonsubsamped Contourlet Transform based expectation maximization method with adaptive mean shift for automatic segmentation of MR brain images. <b>2014</b> ,		
941	An effective color image fusion algorithm of visual and infrared night images. <b>2014</b> ,		2

940	Unsupervised Change Detection in SAR Image Based on Gauss-Log Ratio Image Fusion and Compressed Projection. <b>2014</b> , 7, 3297-3317	89
939	Image factorization and feature fusion for enhancing robot vision in human face recognition. <b>2014</b> ,	
938	Noise reduction in small-animal PET images using a multiresolution transform. <b>2014</b> , 33, 2010-9	10
937	Novel designs for nonsubsampling multiresolution directional filter banks and an extra finer directional wavelet transform. <b>2014</b> ,	0
936	Self-adaptive spatial image denoising model based on scale correlation and SURE-LET in the nonsubsampling contourlet transform domain. <b>2014</b> , 57, 1-15	3
935	LS-SVM-based image segmentation using pixel color-texture descriptors. <b>2014</b> , 17, 341-359	10
934	A new robust digital watermarking based on exponent moments invariants in nonsubsampling contourlet transform domain. <b>2014</b> , 40, 942-955	17
933	A new image processing method for discriminating internal layers from radio echo sounding data of ice sheets via a combined robust principal component analysis and total variation approach. <b>2014</b> , 57, 838-846	2
932	Multifocus image fusion using focus measure of fractional differential and NSCT. <b>2014</b> , 24, 234-242	6
931	Discrete shearlet transform on GPU with applications in anomaly detection and denoising. <b>2014</b> , 2014,	17
930	Efficient pan-sharpening of satellite images with the contourlet transform. <b>2014</b> , 35, 1979-2002	7
929	Automatic SAR image enhancement based on nonsubsampling contourlet transform and memetic algorithm. <b>2014</b> , 134, 70-78	20
928	Image fusion algorithm based on redundant-lifting NSWMDA and adaptive PCNN. <b>2014</b> , 125, 6247-6255	20
927	Medical image fusion using multi-level local extrema. <b>2014</b> , 19, 38-48	93
926	Multi-focus image fusion algorithm based on compound PCNN in Surfacelet domain. <b>2014</b> , 125, 296-300	22
925	MRI-PET image fusion based on NSCT transform using local energy and local variance fusion rules. <b>2014</b> , 38, 211-9	23
924	Technique for gray-scale visual light and infrared image fusion based on non-subsampling shearlet transform. <b>2014</b> , 63, 110-118	31
923	Technique for image fusion based on NSST domain INMF. <b>2014</b> , 125, 2716-2722	15

922	Synthetic Aperture Radar image nonlinear enhancement algorithm based on NSCT transform. <b>2014</b> , 13, 239-243	5
921	Diagnosis of high-resolution upper ocean dynamics from noisy sea surface temperatures. <b>2014</b> , 119, 121-132	12
920	A Pan-Sharpener Based on the Non-Subsampled Contourlet Transform: Application to Worldview-2 Imagery. <b>2014</b> , 7, 1806-1815	34
919	BASI: a new index to extract built-up areas from high-resolution remote sensing images by visual attention model. <b>2014</b> , 5, 305-314	21
918	Fusion method of infrared and visible images based on neighborhood characteristic and regionalization in NSCT domain. <b>2014</b> , 125, 4980-4984	28
917	Catenary image enhancement using wavelet-based contourlet transform with cycle translation. <b>2014</b> , 125, 3922-3925	11
916	Traffic Video Surveillance Using Contourlet Transform. <b>2015</b> ,	
915	Medical image fusion technique based on type-2 near fuzzy set. <b>2015</b> ,	2
914	Research on image fusion algorithm based on Compressed Sensing theory. <b>2015</b> ,	
913	Hybrid method for medical image denoising using Shearlet transform and bilateral filter. <b>2015</b> ,	2
912	Infrared Image and Visual Image Fusion Algorithm Based on NSCT and Improved Weight Average. <b>2015</b> ,	
911	A new image denoising algorithm with multiscale products. <b>2015</b> ,	
910	Visible and infrared image fusion technique using advance fuzzy set theory. <b>2015</b> ,	1
909	Endoscopic Image Retrieval System Using Multi-scale Image Features. <b>2015</b> ,	1
908	An improved digital watermarking technology based on QR code. <b>2015</b> ,	
907	A medical image enhancement method using adaptive thresholding in NSCT domain combined unsharp masking. <b>2015</b> , 25, 199-205	17
906	Multi-Focus Image Fusion Based on Multiple Directional LOTs. <b>2015</b> , E98.A, 2360-2365	4
905	Poisson-Gaussian Noise Reduction Using the Hidden Markov Model in Contourlet Domain for Fluorescence Microscopy Images. <b>2015</b> , 10, e0136964	14

904	A Novel Multiscale Edge Detection Approach Based on Nonsubsampled Contourlet Transform and Edge Tracking. <b>2015</b> , 2015, 1-14	7
903	Automatic Side-Scan Sonar Image Enhancement in Curvelet Transform Domain. <b>2015</b> , 2015, 1-14	4
902	The Nonsubsampled Contourlet Transform Based Statistical Medical Image Fusion Using Generalized Gaussian Density. <b>2015</b> , 2015, 262819	3
901	Normal Inverse Gaussian Model-Based Image Denoising in the NSCT Domain. <b>2015</b> , 2015, 1-13	
900	New models of visual saliency: Contourlet transform based model and hybrid model. <b>2015</b> ,	0
899	Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction. <b>2015</b> , 53, 5054-5066	23
898	Infrared-visible video fusion based on motion-compensated wavelet transforms. <b>2015</b> , 9, 318-328	11
897	Multi-focus image fusion based on improved spectral graph wavelet transform. <b>2015</b> ,	
896	Perceptual-Based Fusion of Infrared and Visual Images in Nonsubsampled Contourlet Transform. <b>2015</b> ,	
895	Multiscale random projection based background suppression of infrared small target image. <b>2015</b> , 73, 255-262	4
894	Smooth affine shear tight frames: digitization and applications. <b>2015</b> ,	
893	Infrared and visible image fusion based on shearlet transform and image enhancement. <b>2015</b> ,	1
892	Infrared Image Super-Resolution by Using Sparse Dictionary and Nonsubsampled Contourlet Transform. <b>2015</b> ,	
891	Comparative analysis of different fusion rules for SAR and multi-spectral image fusion based on NSCT and IHS transform. <b>2015</b> ,	1
890	Multimodal biomedical image fusion: Use of log-Gabor and guided filters with non-subsampled contourlet transform. <b>2015</b> ,	3
889	Multifocus color image sequence fusion based on mean shift segmentation. <b>2015</b> , 54, 8982-9	10
888	An Adaptive Enhancement Algorithm for Infrared Images. <b>2015</b> ,	
887	Fusion of Multi-Sensor Satellite Images Using Non-Subsampled Contourlet Transform. <b>2015</b> , 54, 713-720	5

886	Improved Fusion Method for Remote Sensing Imagery Using NSCT and Extend IHS. <b>2015</b> , 48, 64-69	5
885	Gradient-domain image decomposition for image recovery. <b>2015</b> ,	
884	Performance analysis of retargeting pyramid and its applications. <b>2015</b> ,	
883	PMPA: A patch-based multiscale products algorithm for image denoising. <b>2015</b> ,	11
882	Lossy compression of hyperspectral images using shearlet transform and 3D SPECK. <b>2015</b> ,	
881	Infrared dim small target detection algorithm based on NSCT and SVD. <b>2015</b> ,	
880	A novel image steganography scheme based on morphological associative memory and permutation schema. <b>2015</b> , 8, 110-121	6
879	A fusion algorithm for infrared and visible images based on adaptive dual-channel unit-linking PCNN in NSCT domain. <b>2015</b> , 69, 53-61	119
878	Expansion of LISS III swath using AWiFS wider swath data and contourlet coefficients learning. <b>2015</b> , 52, 78-93	9
877	Robust multi-modal medical image fusion via anisotropic heat diffusion guided low-rank structural analysis. <b>2015</b> , 26, 103-121	30
876	A shearlet-based separation method of 3D engineering surface using high definition metrology. <b>2015</b> , 40, 55-73	30
875	Reducing Impurities in Medical Images Based on Curvelet Domain. <b>2015</b> , 306-319	5
874	Image denoising in hybrid wavelet and quincunx diamond filter bank domain based on Gaussian scale mixture model. <b>2015</b> , 46, 384-393	7
873	A novel image fusion framework for night-vision navigation and surveillance. <b>2015</b> , 9, 165-175	25
872	A new contrast based multimodal medical image fusion framework. <b>2015</b> , 157, 143-152	114
871	Facial aging and asymmetry decomposition based approaches to identification of twins. <b>2015</b> , 48, 3843-3856	15
870	Breast cancer detection and classification in digital mammography based on Non-Subsampled Contourlet Transform (NSCT) and Super Resolution. <b>2015</b> , 122, 89-107	41
869	A comparative study of directional filters with application to angiogram image enhancement. <b>2015</b> ,	

868	A novel image fusion approach based on compressive sensing. <b>2015</b> , 354, 299-313	13
867	A novel multi-focus image fusion method using PCNN in nonsubsampling contourlet transform domain. <b>2015</b> , 126, 2508-2511	29
866	Simultaneous image fusion and denoising with adaptive sparse representation. <b>2015</b> , 9, 347-357	191
865	Scale-rotation invariant features from Non-Subsampled Contourlets. <b>2015</b> ,	
864	The seismic random noise attenuation method based on enhanced bandelet transform. <b>2015</b> , 116, 146-155	9
863	Fully automated diabetic retinopathy screening using morphological component analysis. <b>2015</b> , 43, 78-88	35
862	A no-reference image quality assessment approach based on steerable pyramid decomposition using natural scene statistics. <b>2015</b> , 26, 77-90	7
861	Comparative assessment of efficiency for content based image retrieval systems using different wavelet features and pre-classifier. <b>2015</b> , 74, 11595-11630	7
860	Multi-Focus Image Fusion Based on NSCT and NSST. <b>2015</b> , 16, 1	9
859	Nonsubsampled shearlet based CT and MR medical image fusion using biologically inspired spiking neural network. <b>2015</b> , 18, 91-101	96
858	Texture classification and retrieval using shearlets and linear regression. <b>2015</b> , 45, 358-69	87
857	Color-direction patch-sparsity-based image inpainting using multidirection features. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 1138-52	8.7 35
856	Iris Recognition using Robust Localization and Nonsubsampled Contourlet Based Features. <b>2015</b> , 81, 111-128	15
855	An Edge Preserving Multiresolution Fusion: Use of Contourlet Transform and MRF Prior. <b>2015</b> , 53, 3210-3220	34
854	Infrared image and visual image fusion algorithm based on NSCT and improved regional cross entropy. <b>2015</b> ,	
853	A Novel Fusion Method of Infrared and Visible Images Based on Non-subsampling Contourlet Transform. <b>2015</b> , 297-306	1
852	An infrared-visible image fusion scheme based on NSCT and compressed sensing. <b>2015</b> ,	1
851	Image Denoising Using Modified Nonsubsampled Contourlet Transform Combined with Gaussian Scale Mixtures Model. <b>2015</b> , 196-207	2

850	Fusion technique for multi-focus images based on NSCT-TCM. <b>2015</b> , 126, 3185-3192	16
849	Edge detection in polarimetric SAR images based on the nonsubsamped contourlet transform. <b>2015</b> ,	
848	Enhanced medical image fusion of PET and CT using NonsubsampedContourlet transform. <b>2015</b> ,	
847	. <b>2015</b> , 15, 6783-6790	127
846	Iris Recognition Using the Nonsubsamped Contourlet Transform. <b>2015</b> , 29, 1556014	
845	Local sparsity enhanced compressed sensing magnetic resonance imaging in uniform discrete curvelet domain. <b>2015</b> , 15, 28	7
844	Infrared image denoising using mixed statistical model in nonsubsamped contourlet domain. <b>2015</b> ,	
843	An image super resolution reconstruction algorithm based on Undecimated Morphological Wavelet. <b>2015</b> ,	2
842	Infrared and visible image fusion using multiscale directional nonlocal means filter. <b>2015</b> , 54, 4299	26
841	A Novel NSCT Fusion Algorithm for Images Based on Compressive Sensing and Dynamic WNMF. <b>2015</b> , 361-372	
840	A fast fusion scheme for infrared and visible light images in NSCT domain. <b>2015</b> , 72, 266-275	51
839	An Adaptive Support Vector Machine-Based Workpiece Surface Classification System Using High-Definition Metrology. <b>2015</b> , 64, 2590-2604	40
838	A multi-focus color image fusion method based on edge detection. <b>2015</b> ,	1
837	A novel medical image fusion with $\mathbb{R}$ -color transformation. <b>2015</b> ,	
836	Multi-sensor image enhanced fusion algorithm based on NSST and top-hat transformation. <b>2015</b> , 126, 4184-4190	24
835	Image denoising via bivariate shrinkage function based on a new structure of dual contourlet transform. <b>2015</b> , 109, 25-37	19
834	PCA Based Medical Image Fusion in Ridgelet Domain. <b>2015</b> , 475-482	9
833	A novel image denoising scheme based on fusing multiresolution and spatial filters. <b>2015</b> , 9, 885-892	2

832	Image denoising using normal inverse gaussian model in quaternion wavelet domain. <b>2015</b> , 74, 1107-1124	8
831	Stereo matching cost computation based on nonsubsampling contourlet transform. <b>2015</b> , 26, 275-283	8
830	A novel fusion scheme for visible and infrared images based on compressive sensing. <b>2015</b> , 335, 168-177	37
829	A graph-based relevance feedback mechanism in content-based image retrieval. <b>2015</b> , 73, 254-264	48
828	Scaling-based watermarking with universally optimum decoder. <b>2015</b> , 74, 5995-6018	3
827	NSCT Domain Additive Watermark Detection Using RAO Hypothesis Test and Cauchy Distribution. <b>2016</b> , 2016, 1-18	2
826	Representation of Block-Based Image Features in a Multi-Scale Framework for Built-Up Area Detection. <b>2016</b> , 8, 155	13
825	Image Edge Detection Based on Gaussian Mixture Model in Nonsampled Contourlet Domain. <b>2016</b> , 2016, 1-10	5
824	A Strong Robust Zero-Watermarking Scheme Based on Shearlets High Ability for Capturing Directional Features. <b>2016</b> , 2016, 1-11	6
823	A Novel Image Fusion Algorithm for Visible and PMMW Images based on Clustering and NSCT. <b>2016</b> , 56, 02004	
822	Pansharpening with a Guided Filter Based on Three-Layer Decomposition. <b>2016</b> , 16,	24
821	Nonsampled contourlet transform method for optical fringe pattern analysis in profilometry and interferometry. <b>2016</b> , 55, 7718-25	4
820	Optical nonsampled contourlet transform. <b>2016</b> , 55, 7726-34	
819	Image fusion based on visual salient features and the cross-contrast. <b>2016</b> , 40, 218-224	12
818	NSCT-Based Infrared Image Enhancement Method for Rotating Machinery Fault Diagnosis. <b>2016</b> , 65, 2293-2301	25
817	Vision model based image fusion in nonsampled contourlet transform domain. <b>2016</b> ,	
816	Fusion of infrared and visual images through multiscale hybrid unidirectional total variation. <b>2016</b> ,	0
815	Contourlet versus Gabor Transform for Texture Feature Extraction and Image Retrieval. <b>2016</b> ,	2

814	MSVD based image watermarking in NSCT domain. <b>2016,</b>	1
813	SAR image segmentation for land cover change detection. <b>2016,</b>	6
812	Multi-focus image fusion based on scale vector norm of nonsubsampling Contourlet Transform. <b>2016,</b>	
811	A novel medical image fusion scheme employing sparse representation and dual PCNN in the NSCT domain. <b>2016,</b>	4
810	Human body region enhancement method based on Kinect infrared imaging. <b>2016,</b>	
809	Image denoising using bilateral filter in subsampled pyramid and nonsubsampling directional filter bank domain. <b>2016, 31, 237-247</b>	3
808	A novel fusion method of infrared and visual images based on Undecimated Discrete Wavelet Transform and saliency map. <b>2016,</b>	
807	Seafloor segmentation using combined texture features of sidescan sonar images. <b>2016,</b>	
806	Multimodal image fusion via sparse representation and clustering-based dictionary learning algorithm in NonSubsampling Contourlet domain. <b>2016,</b>	4
805	Multimodal medical image fusion based on nonsubsampling contourlet transform using improved PCNN. <b>2016,</b>	2
804	Refined Pan-Sharpener With NSCT and Hierarchical Sparse Autoencoder. <b>2016, 9, 5715-5725</b>	7
803	Satellite image denoising using shearlet transform. <b>2016,</b>	3
802	Multispectral medical image fusion in Contourlet domain for computer based diagnosis of Alzheimer's disease. <b>2016, 87, 074303</b>	18
801	CT and MR Images Fusion Method Based on Nonsubsampling Contourlet Transform. <b>2016,</b>	1
800	Fusion of multi-voltage digital radiography images based on nonsubsampling contourlet transform. <b>2016, 24, 67-77</b>	3
799	Denoising of digital images using shearlet transform. <b>2016,</b>	
798	Image Fusion Method Based on Improved NSCT Transform and PCNN Model. <b>2016,</b>	2
797	A novel fusion approach for multimodal medical images using Non-Subsampling contourlet transform. <b>2016,</b>	1

796	Multi-focus color image fusion using NSCT and PCNN. <b>2016,</b>	3
795	MRI brain pattern analysis for detection of Alzheimer's disease using random forest classifier. <b>2016,</b> 10, 331-340	2
794	Improvement of system quality in a generalized finite element method using discrete curvelet transform. <b>2016,</b>	
793	A fast multi-focus image fusion algorithm by DWT and focused region decision map. <b>2016,</b>	6
792	Infrared and visible image fusion via gradient transfer and total variation minimization. <b>2016,</b> 31, 100-109	423
791	Infrared and visible image fusion using total variation model. <b>2016,</b> 202, 12-19	67
790	Performance improvement scheme of multifocus image fusion derived by difference images. <b>2016,</b> 128, 474-493	35
789	A study on image denoising in contourlet domain using the alpha-stable family of distributions. <b>2016,</b> 128, 459-473	18
788	Infrared and visible images fusion based on RPCA and NSCT. <b>2016,</b> 77, 114-123	45
787	Computational aesthetics of photos quality assessment based on improved artificial neural network combined with an autoencoder technique. <b>2016,</b> 188, 50-62	13
786	Scheme for unsupervised colour texture image segmentation using neutrosophic set and non-subsampled contourlet transform. <b>2016,</b> 10, 464-473	31
785	Local feature descriptor using entropy rate. <b>2016,</b> 194, 157-167	4
784	Warp-knitted fabric defect segmentation based on non-subsampled Contourlet transform. <b>2016,</b> 1-8	
783	A robust vision inspection system for detecting surface defects of film capacitors. <b>2016,</b> 124, 54-62	35
782	Warp-knitted fabric defect segmentation based on the non-subsampled wavelet-packet-based Contourlet transform. <b>2016,</b> 86, 2043-2055	3
781	Remote sensing image segmentation using active contours based on intercorrelation of nonsubsamped contourlet coefficients. <b>2016,</b> 25, 061405	3
780	Multi-temporal fusion of abdominal CT images for effective liver cancer diagnosis. <b>2016,</b>	1
779	A novel sparse-representation-based multi-focus image fusion approach. <b>2016,</b> 216, 216-229	57

778	Salient object detection fusing global and local information based on nonsubsampling contourlet transform. <b>2016</b> , 33, 1430-41	4
777	A novel fusion technique for CT and MRI medical image based on NSST. <b>2016</b> ,	6
776	Face recognition with local contourlet combined patterns. <b>2016</b> ,	3
775	NSCT based multispectral medical image fusion model. <b>2016</b> ,	4
774	Combination of anisotropic diffusion and non-subsampling shearlet transform for image denoising. <b>2016</b> , 30, 3087-3098	11
773	Digital Affine Shear Transforms: Fast Realization and Applications in Image/Video Processing. <b>2016</b> , 9, 1437-1466	9
772	Fast image super-resolution via multiple directional transforms. <b>2016</b> ,	0
771	Performance evaluation for image fusion technique in medical images using spatial and transform method. <b>2016</b> ,	2
770	Region based Multi-focus Image Fusion using the spectral parameter Variance. <b>2016</b> ,	2
769	Fusion of PAN and multispectral remote sensing images in shearlet domain by considering regional metrics. <b>2016</b> , 10, 045003	1
768	Remote sensing image enhancement based on the combination of nonsubsampling shearlet transform and guided filtering. <b>2016</b> , 55, 103104	15
767	A New Interpolation Algorithm Based on the Frequency Transform. <b>2016</b> ,	1
766	RISA. <b>2016</b> ,	
765	Multi-sensor mars image fusion based on IHS combined robust PCA. <b>2016</b> ,	
764	A novel visible and infrared image fusion algorithm based on detail enhancement. <b>2016</b> ,	
763	Weak point target detection in star sensor. <b>2016</b> ,	1
762	Stripe artifact elimination based on nonsubsampling contourlet transform for light sheet fluorescence microscopy. <b>2016</b> , 21, 106005	20
761	A new method of building extraction from high resolution remote sensing images based on NSCT And PCNN. <b>2016</b> ,	1

760	. 2016,	2
759	Edge Detection in Low Quality Medical Images. 2016, 351-362	1
758	Developing a retrieval based diagnostic aid for automated melanoma recognition of dermoscopic images. 2016,	9
757	PCA-DWT based medical image fusion using non sub-sampled contourlet transform. 2016,	9
756	Fusing Facial Texture Features for Face Recognition. 2016, 86, 395-403	0
755	Improved Multiscale Edge Detection Method for Polarimetric SAR Images. 2016, 13, 1104-1108	8
754	Multi-focus pixel-based image fusion in dual domain. 2016,	3
753	Coupling fault diagnosis of rotating machinery by information fusion. 2016,	2
752	The optimal algorithm for Multi-source RS image fusion. 2016, 3, 87-101	3
751	A novel surface defect inspection algorithm for magnetic tile. 2016, 375, 118-126	19
750	Fusion of infrared and visible images based on BEMD and NSDFB. 2016, 77, 82-93	17
749	Cross-Examination for Angle-Closure Glaucoma Feature Detection. 2016, 20, 343-54	24
748	Joint Binary Classifier Learning for ECOC-Based Multi-Class Classification. 2016, 38, 2335-2341	56
747	. 2016, 13, 227-231	27
746	Image denoising using sparse representation classification and non-subsampled shearlet transform. 2016, 10, 1081-1087	20
745	An adaptive fusion approach for infrared and visible images based on NSCT and compressed sensing. 2016, 74, 11-20	45
744	Hallucinating faces based on adaptive neighborhood selection and dual tree complex wavelet transform. 2016, 127, 525-534	2
743	Perceptual fusion of infrared and visible images through a hybrid multi-scale decomposition with Gaussian and bilateral filters. 2016, 30, 15-26	171

742	A new Pansharpening Approach Based on NonSubsampled Contourlet Transform Using Enhanced PCA Applied to SPOT and ALSAT-2A Satellite Images. <b>2016</b> , 44, 665-674	8
741	ShearLab 3D. <b>2016</b> , 42, 1-42	75
740	Image fusion for synthetic aperture radar and multispectral images based on sub-band-modulated non-subsampled contourlet transform and pulse coupled neural network methods. <b>2016</b> , 64, 87-93	9
739	. <b>2016</b> , 54, 2563-2576	66
738	Using two coefficients modeling of nonsubsampled Shearlet transform for despeckling. <b>2016</b> , 10, 015002	8
737	Multimodal Sensor Medical Image Fusion Based on Type-2 Fuzzy Logic in NSCT Domain. <b>2016</b> , 16, 3735-3745	121
736	Performance evaluation of wavelet, ridgelet, curvelet and contourlet transforms based techniques for digital image denoising. <b>2016</b> , 45, 509-533	14
735	Infrared and visible image fusion scheme based on NSCT and low-level visual features. <b>2016</b> , 76, 174-184	70
734	A pan-sharpening method based on NSCT and formulated as compressive sensing problem. <b>2016</b> , 31, 1142-1157	1
733	Multifocus image fusion by combining with mixed-order structure tensors and multiscale neighborhood. <b>2016</b> , 349-350, 25-49	49
732	Segmentation of non-stochastic surfaces based on non-subsampled contourlet transform and mathematical morphologies. <b>2016</b> , 79, 137-146	7
731	An Affinity-Based Algorithm in Nonsubsampled Contourlet Transform Domain: Application to Synthetic Aperture Radar Image Denoising. <b>2016</b> , 83, 373-388	1
730	Adaptive speckle reduction in ultrasound images using fuzzy logic on Coefficient of Variation. <b>2016</b> , 23, 93-103	23
729	Despeckling of SAR images by directional representation and directional restoration. <b>2016</b> , 127, 116-121	5
728	Brain MR Image Denoising for Rician Noise Using Intrinsic Geometrical Information. <b>2016</b> , 275-284	2
727	Structuring of Contourlet Transform for Pipeline-Based Implementation. <b>2016</b> , 35, 953-976	
726	Joint patch clustering-based dictionary learning for multimodal image fusion. <b>2016</b> , 27, 198-214	109
725	Fractional differential and variational method for image fusion and super-resolution. <b>2016</b> , 171, 138-148	34

724	Image fusion based on complex-shearlet domain with guided filtering. <b>2017</b> , 28, 207-224	36
723	A remote sensing image enhancement method using mean filter and unsharp masking in non-subsampled contourlet transform domain. <b>2017</b> , 39, 183-193	14
722	Color monogenic wavelet transform for multichannel image denoising. <b>2017</b> , 28, 1463-1480	4
721	Description of Salient Features Combined with Local Self-Similarity for SAR Image Registration. <b>2017</b> , 45, 131-138	4
720	Design of complex adaptive multiresolution directional filter bank and application to pansharpening. <b>2017</b> , 11, 259-266	2
719	Improved Image Pansharpening Technique using Nonsubsampled Contourlet Transform with Sparse Representation. <b>2017</b> , 45, 385-394	3
718	Multisensor image fusion approach utilizing hybrid pre-enhancement and double nonsubsampled contourlet transform. <b>2017</b> , 26, 010501	3
717	A hybrid NSCT domain image watermarking scheme. <b>2017</b> , 2017,	8
716	A novel image fusion algorithm based on 2D scale-mixing complex wavelet transform and Bayesian MAP estimation for multimodal medical images. <b>2017</b> , 10, 1750001	3
715	Satellite Image Resolution Enhancement Using Nonsubsampled Contourlet Transform and Clustering on Subbands. <b>2017</b> , 45, 979-991	4
714	Infrared and visible image fusion based on target extraction in the nonsubsampled contourlet transform domain. <b>2017</b> , 11, 1	19
713	Automated melanoma recognition in dermoscopic images based on extreme learning machine (ELM). <b>2017</b> ,	3
712	Fusion of infrared and visible images based on nonsubsampled contourlet transform and sparse K-SVD dictionary learning. <b>2017</b> , 82, 85-95	29
711	Multi-pose system for geometric measurement of large-scale assembled rotational parts. <b>2017</b> , 28, 055011	1
710	Evaluating optical properties of real photonic crystal fibers with compressed sensing based on non-subsampled contourlet transform. <b>2017</b> , 85, 266-272	3
709	A Novel, Efficient, Robust, and Blind Imperceptible 3D Anaglyph Image Watermarking. <b>2017</b> , 42, 3521-3533	4
708	Image Fusion With Cospase Analysis Operator. <b>2017</b> , 24, 943-947	25
707	Image denoising in dual contourlet domain using hidden Markov tree models. <b>2017</b> , 67, 17-29	20

706	High-TV Based CS Framework Using MAP Estimator for SAR Image Enhancement. <b>2017</b> , 10, 4059-4073	6
705	Deep Convolutional Neural Network for Inverse Problems in Imaging. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 4509-4522	8.7 933
704	Derivative Kernels: Numerics and Applications. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 4596-4617	13
703	Choosing the filter for catenary image enhancement method based on the non-subsampled contourlet transform. <b>2017</b> , 88, 054701	5
702	A Hybrid Method for Multi-Focus Image Fusion Based on Fast Discrete Curvelet Transform. <b>2017</b> , 5, 14898-14913	13
701	Target recognition of floating raft aquaculture in SAR image based on statistical region merging. <b>2017</b> ,	7
700	Robust local features for remote face recognition. <b>2017</b> , 64, 34-46	29
699	A comparative study on clutter reduction techniques in GPR images. <b>2017</b> ,	7
698	Hybrid semi-blind image watermarking in redundant wavelet domain. <b>2017</b> , 76, 19113-19137	35
697	Multifocus image fusion via fixed window technique of multiscale images and non-local means filtering. <b>2017</b> , 138, 71-85	55
696	Image Denoising Algorithms: From Wavelet Shrinkage to Nonlocal Collaborative Filtering. <b>2017</b> , 1-17	9
695	Wavelet Variants for 2D Analysis. <b>2017</b> , 345-468	
694	Interactive radiographic image retrieval system. <b>2017</b> , 139, 209-220	8
693	A Local Correlation and Directive Contrast Based Image Fusion. <b>2017</b> , 419-430	1
692	A Hybrid Method Based CT Image Denoising Using Nonsubsampling Contourlet and Curvelet Transforms. <b>2017</b> , 571-580	
691	Automated classification of maxillofacial cysts in cone beam CT images using contourlet transformation and Spherical Harmonics. <b>2017</b> , 139, 197-207	20
690	Surface area-based focus criterion for multi-focus image fusion. <b>2017</b> , 36, 284-295	35
689	Comparison of Fusion Techniques for Very High Resolution Data for Extraction of Urban Land-Cover. <b>2017</b> , 45, 709-724	4

688	A novel infrared and visible image fusion algorithm based on shift-invariant dual-tree complex shearlet transform and sparse representation. <b>2017</b> , 226, 182-191		72
687	Multidimensional Nonseparable Oversampled Lapped Transforms: Theory and Design. <b>2017</b> , 65, 1251-1264		7
686	Fusion of PET and MR Brain Images Based on IHS and Log-Gabor Transforms. <b>2017</b> , 17, 6995-7010		18
685	QUALITY ASSESSMENT OF MEDICAL IMAGE COMPRESSED BY CONTOURLET QUINCUNX AND SPIHT CODING. <b>2017</b> , 17, 1750097		4
684	Anatomical-functional image fusion by information of interest in local Laplacian filtering domain. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 5855-5866	8.7	74
683	An image denoising method based on nonsubsampling contourlet transform with SQP optimization. <b>2017</b> ,		3
682	A framework based on hidden Markov trees for multimodal PET/CT image co-segmentation. <b>2017</b> , 44, 5835-5848		7
681	An efficient and automatic glioblastoma brain tumor detection using shift-invariant shearlet transform and neural networks. <b>2017</b> , 27, 216-226		10
680	Enhancement of Perivascular Spaces in 7 T MR Image using Haar Transform of Non-local Cubes and Block-matching Filtering. <b>2017</b> , 7, 8569		16
679	The application of nonlocal total variation in image denoising for mobile transmission. <b>2017</b> , 76, 17179-17191		19
678	Analysis of synthetic aperture radar image enhancement algorithm. <b>2017</b> ,		0
677	A multi-focus color image fusion algorithm based on an adaptive SF-PCNN in NSCT domain. <b>2017</b> ,		1
676	A medical image fusion method based on SIST and adaptive PCNN. <b>2017</b> ,		2
675	. <b>2017</b> ,		
674	. <b>2017</b> ,		
673	Multi-Focus Image Fusion via Clustering PCA Based Joint Dictionary Learning. <b>2017</b> , 5, 16985-16997		22
672	A survey of infrared and visual image fusion methods. <b>2017</b> , 85, 478-501		119
671	Weighted contourlet binary patterns and image-based fisher linear discriminant for face recognition. <b>2017</b> , 267, 436-446		4

670	Feature enhancement for multi-polarimetric SAR images: A novel approach based on PDE and regularization. <b>2017,</b>	
669	Image fusion based on object region detection and Non-Subsampled Contourlet Transform. <b>2017,</b> 62, 375-383	29
668	An Efficient Multi-focus Image Fusion Approach Based on DWT. <b>2017,</b> 45-52	
667	Image sharpening detection based on multiresolution overshoot artifact analysis. <b>2017,</b> 76, 16563-16580	9
666	Crack detection in magnetic tile images using nonsubsampling shearlet transform and envelope gray level gradient. <b>2017,</b> 90, 7-17	20
665	A social spider optimized image fusion approach for contrast enhancement and brightness preservation. <b>2017,</b> 52, 575-592	31
664	Combination of PCA and Contourlets for Multispectral Image Fusion. <b>2017,</b> 577-585	8
663	Exposure fusion via sparse representation and shiftable complex directional pyramid transform. <b>2017,</b> 76, 15755-15775	5
662	Digital watermark extraction in wavelet domain using hidden Markov model. <b>2017,</b> 76, 3731-3749	18
661	Using Anatomic Magnetic Resonance Image Information to Enhance Visualization and Interpretation of Functional Images: A Comparison of Methods Applied to Clinical Arterial Spin Labeling Images. <b>2017,</b> 36, 487-496	4
660	Image Fusion for Mars Data Using Mix of Robust PCA. <b>2017,</b> 31, 1754002	3
659	Hybrid NSCT domain multiple watermarking for medical images. <b>2017,</b> 76, 3557-3575	25
658	Technique for multi-focus image fusion based on fuzzy-adaptive pulse-coupled neural network. <b>2017,</b> 11, 439-446	22
657	Fusion of local and non-local filters for denoising MRI images. <b>2017,</b>	0
656	Medical image fusion based on GPU accelerated nonsubsampling shearlet transform and 2D principal component analysis. <b>2017,</b>	
655	MRI brain tumor images classification using K-means clustering, NSCT and SVM. <b>2017,</b>	7
654	A Novel Multi-Focus Image Fusion Method Based on Stationary Wavelet Transform and Local Features of Fuzzy Sets. <b>2017,</b> 5, 20286-20302	44
653	Multi-Sensor Fusion Based on Local Activity Measure. <b>2017,</b> 17, 7487-7496	3

652	SAR image de-noising using local properties analysis and discrete non-separable shearlet transform. <b>2017,</b>	1
651	Multimodal medical image fusion using modified weight maps and guided filter. <b>2017,</b>	0
650	Combination of wavelet and contourlet transforms for PET and MRI image fusion. <b>2017,</b>	9
649	Fusion of infrared and visible images based on a hybrid decomposition via the guided and Gaussian filters. <b>2017,</b>	
648	Edge enhancement of liver CT images using non subsampled shearlet transform based multislice fusion. <b>2017,</b>	2
647	Warp-Knitted Fabric Defect Segmentation Based on Non-Subsampled Wavelet-Based Contourlet Transform. <b>2017, 17, 319-327</b>	
646	Infrared-visible image fusion based on stacked sparse autoencoder and non-subsampled contourlet transform. <b>2017,</b>	
645	Feature extraction using DPSO for medical image fusion based on NSCT. <b>2017,</b>	3
644	Bio-medical image fusion based on phase-congruency and guided filter. <b>2017,</b>	2
643	Script Identification Based on Nonsubsampled Contourlet Transform. <b>2017,</b>	
642	NSCT-based fusion method for forward-looking sonar image mosaic. <b>2017, 11, 1512-1522</b>	5
641	Understanding Scenery Quality: A Visual Attention Measure and Its Computational Model. <b>2017,</b>	1
640	CS-MRA reconstruction based on nonsubsampled contourlet transform in frequency domain (NSCT-FD). <b>2017,</b>	
639	Multi-focus image fusion using Gaussian filter and dynamic programming. <b>2017,</b>	3
638	Cellular automata based color image watermarking using NSCT and SVD. <b>2017,</b>	1
637	Patch-based salient region detection using statistical modeling in the non-subsampled contourlet domain. <b>2017,</b>	
636	Method of Improved Fuzzy Contrast Combined Adaptive Threshold in NSCT for Medical Image Enhancement. <b>2017, 2017, 3969152</b>	11
635	A Novel Pan-Sharpener Framework Based on Matting Model and Multiscale Transform. <b>2017, 9, 391</b>	34

634	Airborne Infrared and Visible Image Fusion Combined with Region Segmentation. <b>2017</b> , 17,	15
633	Remote Sensing Image Change Detection Based on NSCT-HMT Model and Its Application. <b>2017</b> , 17,	11
632	Locally adaptive image denoising of "the first satellite of high resolution" image based on generalized Gaussian distribution. <b>2017</b> ,	
631	Remote Sensing Image Enhancement Based on Non-Local Means Filter in NSCT Domain. <b>2017</b> , 10, 116	5
630	A robust hybrid video watermarking algorithm using NSCT and SVD. <b>2017</b> ,	0
629	Medical Image Fusion Algorithm Based on Nonlinear Approximation of Contourlet Transform and Regional Features. <b>2017</b> , 2017, 1-9	11
628	Image Fusion of CT and MR with Sparse Representation in NSST Domain. <b>2017</b> , 2017, 9308745	8
627	Lithium-Ion Battery Capacity Estimation: A Method Based on Visual Cognition. <b>2017</b> , 2017, 1-13	5
626	A Novel Fusion Framework Based on Adaptive PCNN in NSCT Domain for Whole-Body PET and CT Images. <b>2017</b> , 2017, 8407019	3
625	Digital affine shear filter banks with 2-layer structure. <b>2017</b> ,	0
624	An improved non-subsampled contourlet transform-based hybrid pan-sharpening algorithm. <b>2017</b> ,	4
623	Fusion algorithm of infrared and visible images based on joint bilateral filter. <b>2017</b> ,	1
622	Image fusion algorithm based on gradient similarity filter. <b>2017</b> ,	0
621	Image denoising using shift-invariant techniques for camera images. <b>2017</b> ,	
620	A novel infrared and visible face fusion recognition method based on non-subsampled contourlet transform. <b>2017</b> ,	1
619	Multiscale directional bilateral filter based clutter removal in GPR image analysis. <b>2017</b> ,	3
618	A Novel Overlapping Fingerprint Partition and Reconstruction Based on Vector Flow Method. <b>2017</b> ,	
617	Image enhancement using thermal-visible fusion for human detection. <b>2017</b> , 890, 012038	

616	FPGA Implementation of Non-Subsampled Shearlet Transform for Image Fusion. <b>2017</b> ,	1
615	SAR Interferogram Filtering of Shearlet Domain Based on Interferometric Phase Statistics. <b>2017</b> , 7, 141	1
614	Detail-enhanced multimodality medical image fusion based on gradient minimization smoothing filter and shearing filter. <b>2018</b> , 56, 1565-1578	8
613	Remote Sensing Image Fusion Based on Adaptively Weighted Joint Detail Injection. <b>2018</b> , 6, 6849-6864	23
612	Towards a tone mapping-robust watermarking algorithm for high dynamic range image based on spatial activity. <b>2018</b> , 65, 187-200	10
611	An extensive review on Despeckling of medical ultrasound images using various transformation techniques. <b>2018</b> , 138, 18-27	23
610	Note: Eliminating stripe artifacts in light-sheet fluorescence imaging. <b>2018</b> , 89, 036107	8
609	Joint medical image fusion, denoising and enhancement via discriminative low-rank sparse dictionaries learning. <b>2018</b> , 79, 130-146	121
608	. <b>2018</b> , 18, 2494-2505	15
607	Non-subsampled contourlet domain image de-noising employing joint statistical model. <b>2018</b> , 34, 721-731	1
606	Sparse-Based Classification of Hyperspectral Images Using Extended Hidden Markov Random Fields. <b>2018</b> , 11, 4101-4112	12
605	Practical remote sensing image fusion method based on guided filter and improved SML in the NSST domain. <b>2018</b> , 12, 959-966	9
604	Image Adaptive Denoising Based on Nonsubsampled Contourlet Transform. <b>2018</b> , 103, 761-772	
603	Design of linear-phase nonsubsamped nonuniform directional filter bank with arbitrary directional partitioning. <b>2018</b> , 51, 23-28	3
602	Hybrid image denoising method based on non-subsampled contourlet transform and bandelet transform. <b>2018</b> , 12, 778-784	14
601	Digital Affine Shear Filter Banks with 2-Layer Structure and Their Applications in Image Processing. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> ,	8.7 7
600	CT and MR image information fusion scheme using a cascaded framework in ripplelet and NSST domain. <b>2018</b> , 12, 696-707	23
599	DC cable feature extraction based on the PD image in the non-subsampled contourlet transform domain. <b>2018</b> , 25, 533-540	12

598	Detection of Rock Discontinuity Traces Using Terrestrial LiDAR Data and Space-Frequency Transforms. <b>2018</b> , 36, 1745-1765	12
597	Infrared Aerial Small Target Detection with NSCT and Two-Dimensional Property Histogram. <b>2018</b> , 32, 1850031	4
596	Fusion of GFP and phase contrast images with complex shearlet transform and Haar wavelet-based energy rule. <b>2018</b> , 81, 569-578	4
595	A Dynamic Graph Cuts Method with Integrated Multiple Feature Maps for Segmenting Kidneys in 2D Ultrasound Images. <b>2018</b> , 25, 1136-1145	18
594	Remote Sensing Image Fusion With Deep Convolutional Neural Network. <b>2018</b> , 11, 1656-1669	164
593	Compensation Details-Based Injection Model for Remote Sensing Image Fusion. <b>2018</b> , 15, 734-738	13
592	Visible and infrared image fusion using $\mathcal{D}$ -generalized total variation model. <b>2018</b> , 61, 1	7
591	Multichannel image denoising using color monogenic curvelet transform. <b>2018</b> , 22, 635-644	4
590	Video shot boundary detection using multiscale geometric analysis of nsct and least squares support vector machine. <b>2018</b> , 77, 8139-8161	14
589	Multi-focus image fusion based on nonsubsamped compactly supported shearlet transform. <b>2018</b> , 77, 8327-8358	5
588	Novel approach on fusion of multisensor images based on neutrosophic domain in consideration of regional relevance. <b>2018</b> , 77, 1843-1860	
587	Automatic video superimposed text detection based on Nonsubsamped Contourlet Transform. <b>2018</b> , 77, 7033-7049	4
586	Blind multi-image super-resolution based on combination of ANN learning and non-subsampled Contourlet directional image representation. <b>2018</b> , 12, 25-31	3
585	SVD-DCT Based Medical Image Watermarking in NSCT Domain. <b>2018</b> , 467-488	27
584	Phase unwrapping in digital holography based on non-subsampled contourlet transform. <b>2018</b> , 407, 367-374	7
583	. <b>2018</b> , 20, 866-879	79
582	Local contourlet tetra pattern for image retrieval. <b>2018</b> , 12, 591-598	11
581	A Combined Detail Enhancing Algorithm and Texture Feature Extraction Method for Supervised Classification of Remote Sensing Images. <b>2018</b> , 46, 327-336	1

580	Infrared and visual image fusion method based on discrete cosine transform and local spatial frequency in discrete stationary wavelet transform domain. <b>2018</b> , 88, 1-12	34
579	A novel image fusion algorithm using an NSCT and a PCNN with digital filtering. <b>2018</b> , 9, 82-94	2
578	Low-Quality Medical Image Contours in Nonsubsampled Contourlet Domain. <b>2018</b> , 345-349	1
577	Change Detection in Remotely Sensed Images Based on Modified Log Ratio and Fuzzy Clustering. <b>2018</b> , 412-419	1
576	Image Restoration. <b>2018</b> , 133-198	1
575	A novel brain image enhancement method based on nonsubsampled contourlet transform. <b>2018</b> , 28, 124-131	7
574	Evaluation of pavement surface drainage using an automated image acquisition and processing system. <b>2018</b> , 86, 240-255	19
573	Multiresolution Monogenic Wavelet Transform Combined with Bivariate Shrinkage Functions for Color Image Denoising. <b>2018</b> , 37, 1162-1176	7
572	MRI and PET image fusion using structure tensor and dual ripplelet-II transform. <b>2018</b> , 77, 22649-22670	22
571	A New Visible and Infrared Image Fusion Algorithm Based on NSCT. <b>2018</b> ,	1
570	A Hybrid Multimodal Medical Image Fusion Technique for CT and MRI Brain Images. <b>2018</b> , 8, 1-15	3
569	Image fusion based on shift invariant shearlet transform and stacked sparse autoencoder. <b>2018</b> , 12, 73-84	2
568	A low complexity secure force encryption based multiple image watermarking in NSCT domain. <b>2018</b> ,	3
567	An Image Enhancement Method Based on Non-Subsampled Shearlet Transform and Directional Information Measurement. <b>2018</b> , 9, 308	2
566	Extracting Painted Pottery Pattern Information Based on Deep Learning. <b>2018</b> ,	
565	Script Identification of Central Asia Based on Fused Texture Features. <b>2018</b> ,	
564	Breast Cancer Cell-Nuclei Extraction Using Modified Multi-Phase Level Sets. <b>2018</b> ,	
563	Zero-Watermarking in Transform Domain and Quadtree Decomposition for Under Water Images Captured by Robot. <b>2018</b> , 133, 385-392	2

562	. 2018,	1
561	A Modified Objective Quality Index for Image Fusion. 2018,	
560	Nonsubsampled Contourlet Domain Fusion Approach for Infrared and Visible Fire Images. 2018,	0
559	Fusion Method for Infrared and Visible Light Images Utilizing SWT and NSCT. 2018,	
558	Salient region detection using feature extraction in the non-subsampled contourlet domain. 2018, 12, 2275-2282	4
557	Wind Direction Extraction from Sar Images Using Nsct Transform. 2018,	
556	SAR image change detection based on equal weight image fusion and adaptive threshold in the NSST domain. 2018, 51, 785-794	6
555	Liver Segmentation using Bidirectional Region Growing with Edge Enhancement in NSCT Domain. 2018,	1
554	A Multi-Direction Subbands and Deep Neural Networks Based Pan-Sharpening Method. 2018,	0
553	Bone Age Assessment with X-Ray Images Based on Contourlet Motivated Deep Convolutional Networks. 2018,	2
552	Strong robust zero watermarking algorithm based on NSCT transform and image normalization. 2018,	4
551	Optimal multi-scale geometric fusion based on non-subsampled contourlet transform and modified central force optimization. 2018, 29, 4	3
550	On Combination of Fuzzy Memberships for Medical Image Fusion using NSST based Fuzzy-PCNN. 2018,	1
549	SAR Image Change Detection Using Saliency Extraction and Shearlet Transform. 2018, 11, 4701-4710	14
548	Medical Image Fusion Using Non-subsampled Shearlet Transform and Improved PCNN. 2018, 635-645	3
547	Multi-focus image fusion algorithm based on focus detection in spatial and NSCT domain. 2018, 13, e0204225	4
546	Multi-focus: Focused region finding and multi-scale transform for image fusion. 2018, 320, 157-170	19
545	The NSCT-HMT Model of Remote Sensing Image Based on Gaussian-Cauchy Mixture Distribution. 2018, 6, 66007-66019	4

544	Beta Chaotic Map Based Image Encryption Using Genetic Algorithm. <b>2018</b> , 28, 1850132	32
543	Medical Image Fusion based on Frei-Chen Masks in NSST Domain. <b>2018</b> ,	3
542	Nonsubsampled contourlet domain visible and infrared image fusion framework for fire detection using pulse coupled neural network and spatial fuzzy clustering. <b>2018</b> , 101, 84-101	13
541	Microscopy mineral image enhancement based on improved adaptive threshold in nonsubsampled shearlet transform domain. <b>2018</b> , 8, 035002	5
540	Efficient image steganography using graph signal processing. <b>2018</b> , 12, 1065-1071	19
539	General fusion method for infrared and visual images via latent low-rank representation and local non-subsampled shearlet transform. <b>2018</b> , 92, 68-77	20
538	. <b>2018</b> , 11, 3196-3208	16
537	Comparative study of feature extraction using several wavelet transforms for source camera identification. <b>2018</b> ,	1
536	Multi-focus image fusion based on edges and focused region extraction. <b>2018</b> , 171, 611-624	8
535	Infrared and Visible Image Fusion Combining Interesting Region Detection and Nonsubsampled Contourlet Transform. <b>2018</b> , 2018, 1-15	4
534	Infrared and visible image fusion using co-occurrence filter. <b>2018</b> , 93, 223-231	29
533	NSCT-PCNN image fusion based on image gradient motivation. <b>2018</b> , 12, 377-383	18
532	Multi-Focus Image Fusion Using Cross Bilateral Filter in NSCT Domain. <b>2018</b> ,	1
531	Multi-resolution transforms-based hybrid feature extraction technique for differentiating glioma grades. <b>2018</b> , 16, 1850048	
530	Poisson-Gaussian Noise Analysis and Estimation for Low-Dose X-ray Images in the NSCT Domain. <b>2018</b> , 18,	19
529	Structure-aware image fusion. <b>2018</b> , 172, 1-11	37
528	Adaptive fusion framework of infrared and visual image using saliency detection and improved dual-channel PCNN in the LNSST domain. <b>2018</b> , 92, 30-43	7
527	Multispectral medical image fusion scheme based on hybrid contourlet and shearlet transform domains. <b>2018</b> , 89, 084301	6

526	Infrared and Visible Images Fusion with Multi-visual Cues. <b>2018</b> , 19, 1	
525	Multimodal sensor medical image fusion based on nonsubsampling shearlet transform and S-PCNNs in HSV space. <b>2018</b> , 153, 379-395	46
524	Infrared and visible image fusion based on NSCT and stacked sparse autoencoders. <b>2018</b> , 77, 22407-22431	8
523	A Segmentation Method for High Spatial Resolution Remote Sensing Images Based on the Fusion of Multifeatures. <b>2018</b> , 15, 1274-1278	5
522	Colour image encryption technique using differential evolution in non-subsampling contourlet transform domain. <b>2018</b> , 12, 1273-1283	30
521	A Contrast Enhancement Method for Improving Surface Defects Detection of Elevator Compensation Chain. <b>2019</b> , 33, 1954011	0
520	Technical Information. <b>2019</b> , 11-21	1
519	Infrared and visible images fusion using visual saliency and optimized spiking cortical model in non-subsampling shearlet transform domain. <b>2019</b> , 78, 28609-28632	18
518	Range-gated imaging in turbid conditions using a combination of intensity and polarization information. <b>2019</b> , 94, 105505	2
517	A Framelet-Based SFIM Method to Pan-Sharpen THEOS Imagery. <b>2019</b> , 47, 1417-1429	0
516	Zernike moments-based fingerprint recognition using weighted-support vector machine. <b>2019</b> , 33, 1950245	8
515	Denoising Method for Passive Photon Counting Images Based on Block-Matching 3D Filter and Non-Subsampling Contourlet Transform. <b>2019</b> , 19,	4
514	. <b>2019</b> , 7, 48725-48738	1
513	BEMD image fusion based on PCNN and compressed sensing. <b>2019</b> , 23, 10045-10054	3
512	Efficient multi-scale non-sub-sampling shearlet fusion system based on modified central force optimization and contrast enhancement. <b>2019</b> , 102, 102975	5
511	Automatic building change image quality assessment in high resolution remote sensing based on deep learning. <b>2019</b> , 63, 102585	12
510	A multi-algorithm block fusion method based on set-valued mapping for dual-modal infrared images. <b>2019</b> , 102, 102977	4
509	Computer aided tool for automatic detection and delineation of nucleus from oral histopathology images for OSCC screening. <b>2019</b> , 83, 105642	6

508	Coefficient difference based watermark detector in nonsampled contourlet transform domain. <b>2019</b> , 503, 274-290	11
507	A Segmentation-Cooperated Pansharpener Method Using Local Adaptive Spectral Modulation. <b>2019</b> , 8, 685	2
506	Two-Step Enhanced Deep Learning Approach for Electromagnetic Inverse Scattering Problems. <b>2019</b> , 18, 2254-2258	48
505	A Decision Support System (DSS) for Breast Cancer Detection Based on Invariant Feature Extraction, Classification, and Retrieval of Masses of Mammographic Images. <b>2019</b> ,	
504	Block-Extraction and Haar Transform Based Linear Singularity Representation for Image Enhancement. <b>2019</b> , 2019, 1-14	
503	Multiscale Directional Fusion for Depth Map Super Resolution with Denoising. <b>2019</b> ,	
502	MRI and PET/SPECT fusion with pseudo spatial frequency in local laplacian filter domain. <b>2019</b> ,	
501	Medical image fusion based on saliency and adaptive similarity judgment. <b>2019</b> , 1	0
500	Pansharpener With Joint Local Low Rank Decomposition and Hierarchical Geometric Filtering. <b>2019</b> , 7, 130578-130589	1
499	Medical image fusion based on modified pulse coupled neural network model and kirsch operator. <b>2019</b> , 17, 1950052	2
498	Enhancement of hyperspectral remote sensing images based on improved fuzzy contrast in nonsampled shearlet transform domain. <b>2019</b> , 78, 18077-18094	6
497	Pairs trading strategies in a cointegration framework: back-tested on CFD and optimized by profit factor. <b>2019</b> , 51, 2436-2452	10
496	Image speckle noise denoising by a multi-layer fusion enhancement method based on block matching and 3D filtering. <b>2019</b> , 67, 224-235	5
495	Iterative Bayesian denoising based on variance stabilization using Contourlet Transform with Sharp Frequency Localization: application to EFTEM images. <b>2019</b> , 1, 13	2
494	Locally optimum image watermark decoder by modeling NSCT domain difference coefficients with vector based Cauchy distribution. <b>2019</b> , 62, 309-329	12
493	Single Image Defogging Based on Multi-Channel Convolutional MSRCR. <b>2019</b> , 7, 72492-72504	38
492	Analysis of Transform-Based Features on Lateral View Breast Thermograms. <b>2019</b> , 38, 5734-5754	4
491	Marine Floating Raft Aquaculture Detection of GF-3 PolSAR Images Based on Collective Multikernel Fuzzy Clustering. <b>2019</b> , 12, 2741-2754	8

490	Infrared Dim Target Detection Using Shearlet's Kurtosis Maximization under Non-Uniform Background. <b>2019</b> , 11, 723	15
489	Design of 2D Checkboard Nonuniform Directional Filter Banks and Its Application to Image Nonlinear Approximation. <b>2019</b> , 45-54	
488	Image Compression with Reversible Image Watermarking Scheme Based on Non-subsampled Contourlet Transform and Singular Value Decomposition. <b>2019</b> ,	
487	. <b>2019</b> , 21, 2447-2460	25
486	The PAN and MS Image Pansharpening Algorithm Based on Adaptive Neural Network and Sparse Representation in the NSST Domain. <b>2019</b> , 7, 52508-52521	17
485	Multifocus Image Fusion Based on Fast Guided Filter and Focus Pixels Detection. <b>2019</b> , 7, 50780-50796	6
484	Interval type-2 fuzzy set and human vision based multi-scale geometric analysis for text-graphics segmentation. <b>2019</b> , 78, 22939-22957	2
483	Remote Sensing Image Matching Based Improved ORB in NSCT Domain. <b>2019</b> , 47, 801-807	12
482	A New Pulse Coupled Neural Network (PCNN) for Brain Medical Image Fusion Empowered by Shuffled Frog Leaping Algorithm. <b>2019</b> , 13, 210	32
481	An image watermarking method based on visual saliency and contourlet transform. <b>2019</b> , 186, 379-389	9
480	Multi-Resolution Parallel Magnetic Resonance Image Reconstruction in Mobile Computing-Based IoT. <b>2019</b> , 7, 15623-15633	8
479	An automatic vision inspection system for detecting surface cracks of welding joint. <b>2019</b> , 19, 635-646	1
478	Catenary image denoising method using lifting wavelet-based contourlet transform with cycle shift-invariance. <b>2019</b> , 17, 1850060	3
477	A bio-inspired motion sensitive model and its application to estimating human gaze positions under classified driving conditions. <b>2019</b> , 345, 23-35	10
476	How Can Despeckling and Structural Features Benefit to Change Detection on Bitemporal SAR Images?. <b>2019</b> , 11, 421	10
475	A multi-scale data fusion framework for bone age assessment with convolutional neural networks. <b>2019</b> , 108, 161-173	16
474	Infrared and visible image fusion based on BEMSD and improved fuzzy set. <b>2019</b> , 98, 201-211	6
473	. <b>2019</b> , 12, 685-699	10

472	Multifocus image fusion using random forest and hidden Markov model. <b>2019</b> , 23, 9385-9396	5
471	Improved Wavelet Denoising by Non-Convex Sparse Regularization Under Double Wavelet Domains. <b>2019</b> , 7, 30659-30671	11
470	High frequency assisted fusion for infrared and visible images through sparse representation. <b>2019</b> , 98, 212-222	4
469	Wavelet Deep Neural Network for Stripe Noise Removal. <b>2019</b> , 7, 44544-44554	36
468	MRI Watermarking Technique Using Chaotic Maps, NSCT and DCT. <b>2019</b> ,	4
467	MRI and PET image fusion using the nonparametric density model and the theory of variable-weight. <b>2019</b> , 175, 73-82	13
466	Poisson Reconstruction-Based Fusion of Infrared and Visible Images via Saliency Detection. <b>2019</b> , 7, 20676-20688	8
465	Image classification method rationally utilizing spatial information of the image. <b>2019</b> , 78, 19181-19199	4
464	An improved multimodal medical image fusion scheme based on hybrid combination of nonsubsampling contourlet transform and stationary wavelet transform. <b>2019</b> , 29, 146-160	19
463	A Phase Congruency and Local Laplacian Energy Based Multi-Modality Medical Image Fusion Method in NSCT Domain. <b>2019</b> , 7, 20811-20824	131
462	Marine Multi-Target Detection Based on Improved Wavelet Transform. <b>2019</b> ,	1
461	Multi-focus Image Fusion Method Based on MCA and Focus Region Detection. <b>2019</b> ,	
460	Vector extension of quaternion wavelet transform and its application to colour image denoising. <b>2019</b> , 13, 133-140	5
459	Fusion Method Based on Non-Subsampled Contourlet Transform and Fuzzy Biochemical Ion Exchange Model. <b>2019</b> ,	
458	Random Noise Reduction of Seismic Data in NSCT Domain. <b>2019</b> ,	1
457	Color image fusion utilizing NSCT and YUV transform. <b>2019</b> ,	
456	Single Image Super-Resolution Technique using Precision learning of Low Resolution Images. <b>2019</b> ,	
455	A Machine Learning Algorithm for No Reference Image Quality Assessment using Non-Subsampled Contourlet and Curvelet Transform. <b>2019</b> ,	

454	Directional relative total variation for structure-texture decomposition. <b>2019</b> , 13, 1835-1845	1
453	A Novel Infrared and Visible Image Information Fusion Method Based on Phase Congruency and Image Entropy. <b>2019</b> , 21, 1135	25
452	A SAR/Infrared Image Fusion Method Based on NSCT and PCNN. <b>2019</b> ,	1
451	A Method for Road Extraction from High-Resolution Remote Sensing Images Based on Multi-Kernel Learning. <b>2019</b> , 10, 385	
450	Image Fusion via Domain and Feature Transfer. <b>2019</b> ,	
449	Detection of Intoxicated Person using Thermal Infrared Images. <b>2019</b> ,	
448	. <b>2019</b> ,	1
447	A New Method for Detecting Architectural Distortion in Mammograms by NonSubsampled Contourlet Transform and Improved PCNN. <b>2019</b> , 9, 4916	2
446	MAD-based Estimation of the Noise Level in the Contourlet Domain. <b>2019</b> , 53, 461-470	
445	High-Resolution SAR Change Detection Based on ROI and SPP Net. <b>2019</b> , 7, 177009-177022	7
444	Sar and Optical Image Fusion for Coastal Surveillance. <b>2019</b> ,	1
443	Fusion Evaluation of X-Ray Backscatter Image and Holographic Subsurface Radar Image. <b>2019</b> ,	
442	Joint Framework for Image Fusion and Super-Resolution via Multicomponent Analysis and Residual Compensation. <b>2019</b> , 7, 174092-174107	5
441	Pansharpening with a Gradient Domain GIF Based on NSST. <b>2019</b> , 8, 229	2
440	A Novel Partial Discharge Detection Method Based on the Photoelectric Fusion Pattern in GIL. <b>2019</b> , 12, 4120	2
439	Multimodal Sensor Medical Image Fusion Based on Local Difference in Non-Subsampled Domain. <b>2019</b> , 68, 938-951	23
438	Multi-focus image fusion with alternating guided filtering. <b>2019</b> , 13, 727-735	14
437	Infrared and low-light-level image fusion based on $\alpha$ -energy minimization and mixed- $\beta$ -gradient regularization. <b>2019</b> , 96, 163-173	4

436	Brain CT and MRI medical image fusion using convolutional neural networks and a dual-channel spiking cortical model. <b>2019</b> , 57, 887-900	46
435	Weighted Tensor Schatten p-norm Minimization for Image Denoising. <b>2019</b> , 163-172	1
434	Speckle noise removal in SAR images using Multi-Objective PSO (MOPSO) algorithm. <b>2019</b> , 76, 671-681	23
433	Efficient edge-preserved sonar image enhancement method based on CVT for object recognition. <b>2019</b> , 13, 15-23	10
432	. <b>2019</b> , 7, 20273-20280	3
431	An image segmentation technique using nonsubsampling contourlet transform and active contours. <b>2019</b> , 23, 1823-1832	4
430	Multimodal neurological image fusion based on adaptive biological inspired neural model in nonsubsampling Shearlet domain. <b>2019</b> , 29, 50-64	14
429	Speech and music classification using spectrogram based statistical descriptors and extreme learning machine. <b>2019</b> , 78, 15141-15168	9
428	Fragile watermarking for copyright authentication and tamper detection of medical images using compressive sensing (CS) based encryption and contourlet domain processing. <b>2019</b> , 78, 13905-13924	23
427	Mining painted cultural relic patterns based on principal component images selection and image fusion of hyperspectral images. <b>2019</b> , 36, 32-39	11
426	Image Denoising method based on NSCT bivariate model and Variational Bayes threshold estimation. <b>2019</b> , 78, 8927-8941	4
425	A novel medical image enhancement algorithm based on improvement correction strategy in wavelet transform domain. <b>2019</b> , 22, 10969-10977	6
424	A spatio-frequency orientational energy based medical image fusion using non-sub sampled contourlet transform. <b>2019</b> , 22, 11193-11205	3
423	Multi-focus image fusion combining focus-region-level partition and pulse-coupled neural network. <b>2019</b> , 23, 4685-4699	15
422	Weibull statistical modeling for textured image retrieval using nonsubsampling contourlet transform. <b>2019</b> , 23, 4749-4764	7
421	Infrared and visible image fusion methods and applications: A survey. <b>2019</b> , 45, 153-178	463
420	Medical image fusion using type-2 fuzzy and near-fuzzy set approach. <b>2020</b> , 42, 399-414	1
419	SPIHT-based multiple image watermarking in NSCT domain. <b>2020</b> , 32, e4912	21

418	Dynamic Texture Segmentation Approaches for Natural and Manmade Cases: Survey and Experimentation. <b>2020</b> , 27, 285-297	0
417	Discriminative Dictionary Learning-Based Multiple Component Decomposition for Detail-Preserving Noisy Image Fusion. <b>2020</b> , 69, 1082-1102	45
416	A novel medical image fusion by combining TV-L1 decomposed textures based on adaptive weighting scheme. <b>2020</b> , 23, 225-239	10
415	Fast curvelet transform through genetic algorithm for multimodal medical image fusion. <b>2020</b> , 24, 1815-1836	37
414	Image classification with an RGB-channel nonsubsampling contourlet transform and a convolutional neural network. <b>2020</b> , 396, 266-277	5
413	A Modified Framework for Multislice Image Fusion for High Contrast Liver Cancer Detection. <b>2020</b> , 66, 139-149	1
412	Analysis-synthesis dictionary pair learning and patch saliency measure for image fusion. <b>2020</b> , 167, 107327	13
411	3D shape reconstruction from multifocus image fusion using a multidirectional modified Laplacian operator. <b>2020</b> , 98, 107065	11
410	Image denoising review: From classical to state-of-the-art approaches. <b>2020</b> , 55, 220-244	87
409	. <b>2020</b> , 22, 1407-1422	10
408	Infrared and visible image fusion via hybrid decomposition of NSCT and morphological sequential toggle operator. <b>2020</b> , 201, 163497	15
407	Fusion of mis-registered GFP and phase contrast images with convolutional sparse representation and adaptive region energy rule. <b>2020</b> , 83, 35-47	3
406	A novel multi-focus image fusion method using multiscale shearing non-local guided averaging filter. <b>2020</b> , 166, 107252	11
405	Exemplar-Based Denoising: A Unified Low-Rank Recovery Framework. <b>2020</b> , 30, 2538-2549	9
404	A Novel Despeckling Method for Medical Ultrasound Images Based on the Nonsubsampling Shearlet and Guided Filter. <b>2020</b> , 39, 1449-1470	0
403	Research on fundus image registration and fusion method based on nonsubsampling contourlet and adaptive pulse coupled neural network. <b>2020</b> , 79, 34795-34812	1
402	Multi-modality medical image fusion based on separable dictionary learning and Gabor filtering. <b>2020</b> , 83, 115758	15
401	Brain Medical Image Fusion Using L2-Norm-Based Features and Fuzzy-Weighted Measurements in 2-D Littlewood-Paley EWT Domain. <b>2020</b> , 69, 5900-5913	15

400	A Review of Multi-resolution Analysis (MRA) and Multi-geometric Analysis (MGA) Tools Used in the Fusion of Remote Sensing Images. <b>2020</b> , 39, 3145-3172	10
399	Infrared and visual image fusion based on multi-scale feature decomposition. <b>2020</b> , 203, 163900	18
398	Remote Sensing Image Fusion Based on Fuzzy Logic and Saliency Measure. <b>2020</b> , 17, 1943-1947	11
397	An image NSCT-HMT model based on copula entropy multivariate Gaussian scale mixtures. <b>2020</b> , 193, 105387	0
396	A nonsubsampling contourlet transform based CNN for real image denoising. <b>2020</b> , 82, 115727	10
395	Towards perceptual image fusion: A novel two-layer framework. <b>2020</b> , 57, 102-114	10
394	Complex Contourlet-CNN for polarimetric SAR image classification. <b>2020</b> , 100, 107110	20
393	Infrared and visible image fusion based on intuitionistic fuzzy sets. <b>2020</b> , 105, 103124	14
392	Low-Frequency Desert Noise Intelligent Suppression in Seismic Data Based on Multiscale Geometric Analysis Convolutional Neural Network. <b>2020</b> , 58, 650-665	17
391	Image fuzzy enhancement algorithm based on contourlet transform domain. <b>2020</b> , 79, 35017-35032	3
390	Two-stage sparse representation of NSCT features with application to SAR target classification. <b>2020</b> , 34, 2371-2384	1
389	Infrared and visible image fusion via global variable consensus. <b>2020</b> , 104, 104037	1
388	Change Detection in Multispectral Remote Sensing Images with Leader Intelligence PSO and NSCT Feature Fusion. <b>2020</b> , 9, 462	1
387	Blind watermarking scheme based on Schur decomposition and non-subsampling contourlet transform. <b>2020</b> , 79, 30007-30021	6
386	A robust watermarking approach for security issue of binary documents using fully convolutional networks. <b>2020</b> , 23, 219-239	1
385	A review on the wavelet methods for sonar image segmentation. <b>2020</b> , 17, 172988142093609	5
384	PolSAR Image Classification Based on Low-Frequency and Contour Subbands-Driven Polarimetric SENet. <b>2020</b> , 13, 4760-4773	9
383	Pansharpening Based on Low-Rank Fuzzy Fusion and Detail Supplement. <b>2020</b> , 13, 5466-5479	8

382	Light Field Reconstruction With a Hybrid Sparse Regularization-Pseudo 4DCNN Framework. <b>2020</b> , 8, 171009-171020	1
381	A Line Objects Recognition Algorithm based on Non-subsampled Contourlet Transform. <b>2020</b> ,	1
380	An Enhanced Image Fusion Algorithm by Combined Histogram Equalization and Fast Gray Level Grouping Using Multi-Scale Decomposition and Gray-PCA. <b>2020</b> , 8, 157005-157021	8
379	Fusion of 3-D medical image gradient domain based on detail-driven and directional structure tensor. <b>2020</b> , 28, 1001-1016	2
378	CNN based tool monitoring system to predict life of cutting tool. <b>2020</b> , 2, 1	9
377	Pan-sharpening via multi-scale and multiple deep neural networks. <b>2020</b> , 85, 115850	2
376	Fractal dimension based parameter adaptive dual channel PCNN for multi-focus image fusion. <b>2020</b> , 133, 106141	19
375	NSCT-Based Robust and Perceptual Watermarking for DIBR 3D Images. <b>2020</b> , 8, 93760-93781	6
374	A Learning-Based Image Fusion for High-Resolution SAR and Panchromatic Imagery. <b>2020</b> , 10, 3298	0
373	Medical Image Super-Resolution Via Granular Multi-Scale Network In Nsct Domain. <b>2020</b> ,	1
372	A novel approach for multi-focus image fusion based on SF-PAPCNN and ISML in NSST domain. <b>2020</b> , 79, 24303-24328	8
371	NSST and vector-valued $C\bar{V}$ model based image segmentation algorithm. <b>2020</b> , 14, 1614-1620	3
370	. <b>2020</b> , 58, 4803-4817	4
369	Vague set theory based segmented image fusion technique for analysis of anatomical and functional images. <b>2020</b> , 159, 113592	4
368	Infrared and visible image fusion via gradientlet filter. <b>2020</b> , 197-198, 103016	15
367	Improved contourlet transform construction and its application to surface defect recognition of metals. <b>2020</b> , 31, 951-964	1
366	A Survey on Computer-Aided Diagnosis of Brain Disorders through MRI Based on Machine Learning and Data Mining Methodologies with an Emphasis on Alzheimer Disease Diagnosis and the Contribution of the Multimodal Fusion. <b>2020</b> , 10, 1894	12
365	Infrared small target detection based on non-subsampled shearlet transform and phase spectrum of quaternion Fourier transform. <b>2020</b> , 52, 1	4

364	Ferrite Magnetic Tile Defects Detection Based on Nonsampled Contourlet Transform and Texture Feature Measurement. <b>2020</b> , 56, 386-395	3
363	A Novel Zero-Watermarking Scheme Based on Variable Parameter Chaotic Mapping in NSPD-DCT Domain. <b>2020</b> , 8, 182391-182411	11
362	Two-scale decomposition-based multifocus image fusion framework combined with image morphology and fuzzy set theory. <b>2020</b> , 541, 442-474	6
361	Multi-focus image fusion: A Survey of the state of the art. <b>2020</b> , 64, 71-91	53
360	Seismic Random Noise Attenuation Based on PCC Classification in Transform Domain. <b>2020</b> , 8, 30368-30377	1
359	Novel fusion method for SAR and optical images based on non-sampled shearlet transform. <b>2020</b> , 41, 4590-4604	10
358	Spatially adaptive polarimetric image despeckling using bandelet transform. <b>2020</b> , 53, 73-81	2
357	Denoising of Uncertain Type Noise Images by Spatial Feature Classification in Nonsampled Shearlet Transform. <b>2020</b> , 8, 5009-5021	
356	. <b>2020</b> , 8, 31295-31305	
355	Adaptive Background Suppression Method Based on Intelligent Optimization for IR Small Target Detection Under Complex Cloud Backgrounds. <b>2020</b> , 8, 36930-36947	4
354	Side-Scan Sonar Image Fusion Based on Sum-Modified Laplacian Energy Filtering and Improved Dual-Channel Impulse Neural Network. <b>2020</b> , 10, 1028	4
353	. <b>2020</b> , 6, 640-651	51
352	Multiband Remote Sensing Image Pansharpening Based on Dual-Injection Model. <b>2020</b> , 13, 1888-1904	7
351	A Review of Multimodal Medical Image Fusion Techniques. <b>2020</b> , 2020, 8279342	20
350	NVST chromosphere data interference fringes removal based on NSCT and PCA. <b>2020</b> , 30, 100366	2
349	Performance degradation assessment for aircraft environmental control system: A method based on visual cognition. <b>2021</b> , 113, 64-80	3
348	Single spectrum image denoising via aggregation for intelligent monitoring system. <b>2021</b> , 4, e188	
347	Fast Blind Image Super Resolution Using Matrix-Variable Optimization. <b>2021</b> , 31, 945-955	7

346	Composite material terahertz image fusion based on PCNN and RGEDIM under non-subsampled shearlet transform. <b>2021</b> , 21, 329-339	0
345	A novel multi-modal medical image fusion algorithm. <b>2021</b> , 12, 1995-2002	7
344	NSCT-based robust image watermarking in DC components of APDCBT using singular value decomposition. <b>2021</b> , 4, 133-145	2
343	Improved partial differential equation-based total variation approach to non-subsampled contourlet transform for medical image denoising. <b>2021</b> , 80, 2663-2689	11
342	A new image restoration approach by combining empirical wavelet transform and total variation using chaotic squirrel search optimization. <b>2021</b> , 34, e2824	2
341	Alzheimer's disease classification using features extracted from nonsubsampling contourlet subband-based individual networks. <b>2021</b> , 421, 260-272	10
340	Infrared and visible image fusion using modified spatial frequency-based clustered dictionary. <b>2021</b> , 24, 575-589	3
339	IHS-based pan-sharpening technique for visual quality improvement using KPCA and enhanced SML in the NSCT domain. <b>2021</b> , 42, 537-566	3
338	Multimodal image fusion based on point-wise mutual information. <b>2021</b> , 105, 104047	1
337	Joint image fusion and super-resolution for enhanced visualization via semi-coupled discriminative dictionary learning and advantage embedding. <b>2021</b> , 422, 62-84	8
336	Multi-modality medical image fusion technique using multi-objective differential evolution based deep neural networks. <b>2020</b> , 12, 1-11	33
335	. <b>2021</b> , 23, 2883-2893	
334	Super-Resolution-Guided Progressive Pansharpening Based on a Deep Convolutional Neural Network. <b>2021</b> , 59, 5206-5220	23
333	An optimized SVM based possibilistic fuzzy c-means clustering algorithm for tumor segmentation. <b>2021</b> , 80, 409-437	6
332	Improving medical image fusion method using fuzzy entropy and nonsubsampling contourlet transform. <b>2021</b> , 31, 204-214	8
331	Exudate characterization to diagnose diabetic retinopathy using generalized method. <b>2021</b> , 12, 3633-3645	8
330	A novel multi-modal fundus image fusion method for guiding the laser surgery of central serous chorioretinopathy. <b>2021</b> , 18, 4797-4816	3
329	Infrared and Visible Image Fusion Method Based on ResNet in a Nonsubsampling Contourlet Transform Domain. <b>2021</b> , 9, 91883-91895	3

328	Supapixel-Based Multi-focus Image Fusion. <b>2021</b> , 221-233	
327	FDPPGAN: remote sensing image fusion based on deep perceptual patchGAN. <b>2021</b> , 33, 9589-9605	2
326	Enhanced textural analysis for endometrial tuberculosis identification from ultrasound images. <b>2021</b> , 13, 657-666	0
325	Image Haze Removal Algorithm Based on Nonsubsampled Contourlet Transform. <b>2021</b> , 9, 21708-21720	1
324	A Dual-Path Fusion Network for Pan-Sharpness. <b>2021</b> , 1-14	7
323	Pseudoreference Subaperture Images and Microlens Image-Based Blind Light Field Image Quality Measurement. <b>2021</b> , 70, 1-15	0
322	Learning a Deep Multi-scale Feature Ensemble and an Edge-attention Guidance for Image Fusion. <b>2021</b> , 1-1	18
321	A New Robust Adaptive Fusion Method for Double-Modality Medical Image PET/CT. <b>2021</b> , 2021, 1-18	1
320	Computational learning of features for automated colonic polyp classification. <b>2021</b> , 11, 4347	3
319	Parametrically Optimized Pulse Coupled Neural Network for Analysis of Multimodal Medical Images. <b>2021</b> ,	0
318	Multi-focus image fusion techniques: a survey. 1	6
317	Medical image fusion based on hybrid three-layer decomposition model and nuclear norm. <b>2021</b> , 129, 104179	9
316	Nonsubsampled contourlet transform based tone-mapping operator to optimize the dynamic range of diatom shells. <b>2021</b> , 84, 2034-2045	
315	Image Integration Procedures in Multisensory Medical Images: A Comprehensive Survey of the state-of-the-art Paradigms. <b>2021</b> ,	
314	Image Registration and Fusion using Moving Frame based Decomposition Framework Algorithm. <b>2021</b> , 10, 57-63	1
313	Hyperspectral image classification using an extended Auto-Encoder method. <b>2021</b> , 92, 116111	6
312	Saliency-Guided Nonsubsampled Shearlet Transform for Multisource Remote Sensing Image Fusion. <b>2021</b> , 21,	5
311	Goal oriented image quality assessment.	2

310	LWIR and MWIR Images Fusion Method Based on the TV Model and Saliency Analysis. <b>2021,</b>	
309	Fusion of Multispectral and Panchromatic Images by Integrating Standard PCA with Rotated Wavelet Transform. <b>2021, 49, 2033-2055</b>	2
308	A Multi-Objective Enhanced Fruit Fly Optimization (MO-EFOA) Framework for Despeckling SAR Images using DTCWT based Local Adaptive Thresholding. <b>2021, 42, 5493-5514</b>	1
307	High-Speed Lightweight Ship Detection Algorithm Based on YOLO-V4 for Three-Channels RGB SAR Image. <b>2021, 13, 1909</b>	16
306	Pulse Coupled Neural Network-Based Multimodal Medical Image Fusion via Guided Filtering and WSEML in NSCT Domain. <b>2021, 23,</b>	4
305	Shearlet-Based Structure-Aware Filtering for Hyperspectral and LiDAR Data Classification. <b>2021, 2021, 1-25</b>	6
304	Hybrid, blind and robust image watermarking: RDWT INSCT based secure approach for telemedicine applications. <b>2021, 80, 27593-27613</b>	3
303	Review of Dim Small Target Detection Algorithms in Single-frame Infrared Images. <b>2021,</b>	1
302	Medical image fusion based on convolutional neural networks and non-subsampled contourlet transform. <b>2021, 171, 114574</b>	10
301	Multimodal medical image fusion review: Theoretical background and recent advances. <b>2021, 183, 108036</b>	21
300	An infrared and visible image fusion method based on improved DenseNet and mRMR-ZCA. <b>2021, 115, 103707</b>	5
299	An improved IHS fusion method of GF-2 remote sensing images. <b>2021,</b>	
298	A Distributed Fusion Framework of Multispectral and Panchromatic Images Based on Residual Network. <b>2021, 13, 2556</b>	4
297	A total variation global optimization framework and its application on infrared and visible image fusion. 1	0
296	Multi-focus image fusion based on nonsubsamped contourlet transform and residual removal. <b>2021, 184, 108062</b>	10
295	FD-TR: feature detector based on scale invariant feature transform and bidirectional feature regionalization for digital image watermarking. <b>2021, 80, 32197</b>	
294	Multimodal medical image fusion based on joint bilateral filter and local gradient energy. <b>2021, 569, 302-325</b>	21
293	QRCP Decomposition-Based Hybrid Approach for Fusion of Visible and Infrared Images. 1	1

292	GPR clutter reduction by multi-resolution based tensor RPCA. <b>2021</b> , 42, 7295-7312	2
291	Fusion of medical images based on salient features extraction by PSO optimized fuzzy logic in NSST domain. <b>2021</b> , 69, 102852	4
290	Patterned fabric image retrieval using relevant feedback via geometric similarity. 004051752110362	2
289	Polarization dehazing method based on spatial frequency division and fusion for a far-field and dense hazy image. <b>2021</b> , 60, 9319-9332	2
288	Towards Better Understanding of SAR Image: Feature Enhancement via Non-Local and Low-Rank Approach. <b>2021</b> , 2025, 012071	
287	Pan-sharpening based on multi-objective decision for multi-band remote sensing images. <b>2021</b> , 118, 108022	5
286	. <b>2021</b> , 9, 100637-100651	2
285	A novel multiscale transform decomposition based multi-focus image fusion framework. <b>2021</b> , 80, 12389-12409	
284	An Artificially Intelligent Fusion Approach for Prognosis of Alzheimer's Disease. <b>2021</b> , 43-49	
283	Ultrasound liver tumour active contour segmentation with initialization using adaptive Otsu based thresholding. <b>2021</b> , 37, 251-262	
282	Relative Global Optimum-Based Measure for Fusion Technique in Shearlet Transform Domain for Prognosis of Alzheimer's Disease. <b>2021</b> , 279-291	
281	Shearlet transform based technique for image fusion using median fusion rule. <b>2021</b> , 80, 11491-11522	5
280	An efficient fusion algorithm based on hybrid multiscale decomposition for infrared-visible and multi-type images. <b>2021</b> , 112, 103601	2
279	Multispectral Image Pansharpening Based on the Contourlet Transform. <b>2010</b> , 247-261	5
278	Integration of Wavelet Transforms for Single and Multiple Image Watermarking. <b>2020</b> , 51-63	3
277	Multi-scale Information Distillation Network for Image Super Resolution in NSCT Domain. <b>2019</b> , 50-59	4
276	Color Texture Image Segmentation Based on Neutrosophic Set and Nonsubsampling Contourlet Transformation. <b>2014</b> , 164-173	4
275	Computational Aesthetic Measurement of Photographs Based on Multi-features with Saliency. <b>2014</b> , 357-366	3

274	Image Retrieval by Using Non-subsampled Shearlet Transform and Krawtchouk Moment Invariants. <b>2015</b> , 218-232	1
273	Scale-Space Feature Based Image Watermarking in Contourlet Domain. <b>2009</b> , 88-102	2
272	A New Image Enhancement Method Based on Nonsubsampled Contourlet Transform. <b>2010</b> , 74-80	2
271	Moving Vehicle Detection Combined Contourlet Transform with Frame Difference in Highways Surveillance Video. <b>2011</b> , 65-71	0
270	Apply Neutron Radiation and X-Ray Images Fusion for Defect Detection in Manufacturing. <b>2013</b> , 507-512	1
269	Color Image Restoration via Extended Joint Sparse Model. <b>2012</b> , 497-504	4
268	Image Fusion Using Compressed Sensing in Nonsubsampled Contourlet Transform Domain. <b>2013</b> , 803-810	2
267	A New Image Denoising and Enhancement Method Combining the Nonsubsampled Contourlet Transform and Improved Total Variation. <b>2013</b> , 860-867	1
266	Image Segmentation Based on NSCT and BF-PSO Algorithm. <b>2013</b> , 303-311	1
265	Medical Image Fusion Using Local Energy in Nonsubsampled Contourlet Transform Domain. <b>2015</b> , 29-35	3
264	Medical Image Fusion in Curvelet Domain Employing PCA and Maximum Selection Rule. <b>2016</b> , 1-9	11
263	Multi-focus Image Fusion Based on Non-subsampled Shearlet Transform and Sparse Representation. <b>2018</b> , 120-126	1
262	A Novel Approach to Ultrasound Image Thresholding Using Phase Gradients. <b>2020</b> , 71-88	2
261	Perceptual quality assessment for multimodal medical image fusion. <b>2020</b> , 85, 115852	2
260	Nonsubsampled contourlet transform-based conditional random field for SAR images segmentation. <b>2020</b> , 174, 107623	7
259	Projection onto the convex sets model based on non-downsampling contourlet transform and high-frequency iteration. <b>2020</b> , 56, 1054-1056	3
258	Multi-modal image fusion based on saliency guided in NSCT domain. <b>2020</b> , 14, 3188-3201	9
257	Enhanced Deep Learning Approach Based on the Deep Convolutional EncoderDecoder Architecture for Electromagnetic Inverse Scattering Problems. <b>2020</b> , 19, 1211-1215	21

256	Infrared and visible image fusion based on nonsubsampling shearlet transform and fuzzy C-means clustering. <b>2018</b> , 27, 1	3
255	Nonsubsampling contourlet transform and k-means clustering for degraded document image binarization. <b>2019</b> , 28, 1	3
254	Spectral preservation fusion for remote sensing images using focus measure operators based on fast discrete curvelet transform and hyperspherical color space. <b>2018</b> , 12, 1	2
253	Model-based variational pansharpening method with fast generalized intensity-saturation. <b>2019</b> , 13, 1	4
252	A deep learning-enabled iterative reconstruction of ultra-low-dose CT: use of synthetic sinogram-based noise simulation technique. <b>2018</b> ,	1
251	Infrared and Visible Light Images Fusion Utilizing Object Detection. <b>2015</b> , 04, 47-52	1
250	Multimodal Medical Image Fusion using Guided Filter in NSCT Domain. <b>2018</b> , 11, 1937-1946	7
249	Fusion of multi-focus images via a Gaussian curvature filter and synthetic focusing degree criterion. <b>2018</b> , 57, 10092-10101	18
248	Infrared and visible image perceptive fusion through multi-level Gaussian curvature filtering image decomposition. <b>2019</b> , 58, 3064-3073	32
247	Multispectral image fusion for illumination-invariant palmprint recognition. <b>2017</b> , 12, e0178432	9
246	Two Dimensional M-Channel Non-separable Filter Banks Based on Cosine Modulated Filter Banks with Diagonal Shifts. <b>2013</b> , E96.A, 1685-1694	1
245	Combining Segmentation Network and Nonsubsampling Contourlet Transform for Automatic Marine Raft Aquaculture Area Extraction from Sentinel-1 Images. <b>2020</b> , 12, 4182	10
244	Fusion of Multi-sensor Images Based on the Nonsubsampling Contourlet Transform. <b>2009</b> , 34, 135-141	8
243	Image Fusion Algorithm Based on Spatia Frequency-Motivated Pulse Coupled Neural Networks in Nonsubsampling Contourlet Transform Domain. <b>2009</b> , 34, 1508-1514	71
242	Remote Sensing Image Fusion Based on Differential Evolution Algorithm under Data Assimilation Framework. <b>2010</b> , 36, 392-398	2
241	Novel approach for texture retrieval using nonsubsampling Contourlet transform. <b>2010</b> , 30, 94-97	1
240	A New Image Denoising Method Combining the Nonsubsampling Contourlet Transform and Adaptive Total Variation. <b>2010</b> , 32, 360-365	3
239	Image noise reduction based on anisotropic diffusion: A survey. <b>2011</b> , 25, 105-116	9

238	Fusion Method for Visible Light and Infrared Images Based on Compressive Sensing of Non-subsampled Contourlet Transformation Sparsity. <b>2013</b> , 12, 672-679	3
237	A Novel Remote Sensing Image Enhancement Method Based on NSCT. <b>2013</b> , 13, 153-158	2
236	Coding of Clinical ROI Using S-FCM and WBCT. <b>2014</b> , 14, 2713-2721	1
235	Cluster Based Medical Image Registration Using Optimized Neural Network. <b>2016</b> , 551-581	1
234	The Combination of Adaptive Filters to Improve the Quality of Medical Images in New Wavelet Domain. 46-76	1
233	Clutter Removal Techniques in Ground Penetrating Radar for Landmine Detection. <b>2019</b> , 375-399	8
232	Multimodal Medical Image Fusion in Non-Subsampled Contourlet Transform Domain. <b>2016</b> , 07, 1598-1610	22
231	Shift Invariance Level Comparison of Several Contourlet Transforms and Their Texture Image Retrieval Systems. <b>2016</b> , 07, 1-6	2
230	Multimodal Medical Image Fusion Framework Based on Simplified PCNN in Nonsubsampled Contourlet Transform Domain. <b>2013</b> , 8,	27
229	Texture Feature Extraction Method Combining Nonsubsampled Contour Transformation with Gray Level Co-occurrence Matrix. <b>2013</b> , 8,	6
228	An Image Fusion Method Based on NSCT and Dual-channel PCNN Model. <b>2014</b> , 9,	3
227	Cloud Detection Method Using CNN Based on Cascaded Feature Attention and Channel Attention. <b>2021</b> , 1-1	2
226	A Multispectral and Panchromatic Image Fusion Method Based on NSST and PCA. <b>2021</b> ,	
225	High-quality image multi-focus fusion to address ringing and blurring artifacts without loss of information. 1	0
224	A Fusion Method of Optical Image and SAR Image Based on Dense-UGAN and Gram-Schmidt Transformation. <b>2021</b> , 13, 4274	3
223	Fast local Laplacian filtering based enhanced medical image fusion using parameter-adaptive PCNN and local features-based fuzzy weighted matrices. 1	0
222	Watermarking schemes for digital images: Robustness overview. <b>2021</b> , 100, 116523	4
221	Directional mean curvature for textured image demixing. <b>2022</b> , 102, 578-617	

- 220 Recent advances in image fusion technology in agriculture. **2021**, 191, 106491 6
- 219 The Autonomous Underwater Vehicle Vision Denoising Method of Surfacelet Based on Sample Matrix. **2008**, 771-778 1
- 218 SAR Image Denoising Using the Non-Subsampled Contourlet Transform and Morphological Operators. **2010**, 337-347
- 217 LMMSE-Based Image Denoising in Nonsampled Contourlet Transform Domain. **2010**, 36-43 1
- 216 Crack Image Enhancement of Track Beam Surface Based on Nonsampled Contourlet Transform. **2010**, 333-341
- 215 Image Fusion Algorithm in Nonsampled Contourlet Domain Based on Activity Measure and Closed Loop Feedback. **2010**, 32, 422-426 2
- 214 Novel approach for feature extraction of texture images. **2010**, 29, 3434-3436
- 213 STUDY ON THE ENHANCEMENT AND DENOISING OF MAMMOGRAMS. **2010**, 29, 27-31 0
- 212 Image denoising based on graph regularization and nonsampled Contourlet transform. **2010**, 30, 1556-1558 0
- 211 Comparison among Multi-resolution Decomposition-based Image Fusion Methods. **2010**, 12, 419-425
- 210 Image denoising based on spatially adaptive Bayesian shrinkage in NSCT domain. **2010**, 30, 2080-2084
- 209 Multi-focus image fusion algorithm based on region segmentation and nonsampled Contourlet transform. **2010**, 30, 2805-2807
- 208 Contourlet-2.3 Retrieval Algorithm Using Absolute Mean Energy and Kurtosis Features. **2011**, 319-326
- 207 Images Registration Based on Mutual Information and Nonsampled Contourlet Transform. **2011**, 304-311
- 206 A Fingerprint Image Enhancement Method Based on Contourlet Transform. **2011**, 331-338
- 205 Extraction and Recognition of Bridges over Water in High Resolution SAR Image. **2011**, 19-24
- 204 Retinal Vessel Segmentation Using Nonsampled Contourlet Transform. **2011**, 34, 574-582 3
- 203 SAR Image Despeckling Based on Bivariate Threshold Function in NSCT Domain. **2011**, 33, 1088-1094 2

- 202 Image Denoising Algorithm Based on Dyadic Contourlet Transform. **2011**, 6, 1
- 201 A Novel Intelligent Technique for Recognition of Coke Optical Texture. **2011**, 6, 1
- 200 A 2D Rigid Point Registration for Satellite Imaging Using Genetic Algorithms. **2012**, 442-450
- 199 Video Denoising Based on Adaptive Shrinkage in Surfacelet Transform Domain. **2012**, 684-692
- 198 Shift-invariant texture retrieval using P- contourlet. **2012**,
- 197 Using Anisotropic Bivariate Threshold Function for Image Denoising in NSCT Domain. **2012**, 349-356
- 196 A New Digital Watermarking Algorithm Based on NSCT and SVD. **2012**, 49-57
- 195 Super-Resolution with Multiselective Contourlets. **2012**, 02, 302-311
- 194 Attenuation of Random Noise for Seismic Data Based on Nonsampled Contourlet Transform. **2012**, 103-108 0
- 193 Texture Feature Extraction Approach to Palmprint using Nonsampled Contourlet Transform and Orthogonal Moments. **2012**, 298-301 2
- 192 Wavelet-Contourlet Retrieval Algorithm Using Four Statistical Features. **2012**, 411-418
- 191 Research on Multi-spectral and Panchromatic Image Fusion. **2012**, 132-138
- 190 Image Fusion Method based on Non-Sampled Contourlet Transform. **2012**, 7, 1
- 189 Saliency Preserved Image Fusion Using Nonsampled Contourlet Transform. **2013**, 349-357
- 188 Face Recognition Based on Non-Sampled Contourlet Transform and Multi-order Fusion Binary Patterns. **2013**, 521-528
- 187 Human Face Super-Resolution Based on NSCT. **2013**, 680-693
- 186 A Bi-level IHS Transform for Fusing Panchromatic and Multispectral Images. **2013**, 367-372 1
- 185 Image Enhancement Based on NSCT. **2013**, 753-759

- 184 Adaptive Threshold Nonlinear Image Enhancement Algorithm Based on NSCT Transform. **2014**, 279-286
- 183 Research on Medical Image Fusion Algorithms Based on Nonsubsampled Contourlet. **2014**, 543-551
- 182 Infrared and visible image fusion based on deep Boltzmann model. **2014**, 63, 184202 0
- 181 Face Recognition Based on Discriminative Dictionary with Multilevel Feature Fusion. **2014**, 252-263 1
- 180 Non-subsampled Contourlet Transform-Based Image Denoising in Ultrasound Images Using Elliptical Directional Windows and Block-Based Noise Estimation. **2014**, 241-250
- 179 A New Image Watermarking Algorithm Using the Contourlet Transform and the Harris Detector. **2015**, 439-447
- 178 SURE-LET Poisson Denoising with Multiple Directional LOTs. **2015**, E98.A, 1820-1828 1
- 177 Emergence of Shearlets and Its Applications. **2015**, 257-284
- 176 IMAGE FUSION BASED ON JOINT NONSUBSAMPLED CONTOURLET AND OVERCOMPLETE BRUSHLET TRANSFORMS. **2016**, 9, 2186-2203
- 175 Human Object Classification Based on Nonsubsampled Contourlet Transform Combined with Zernike Moment. **2016**, 212-222
- 174 Accurate reconstruction in measurement of microstructures using digital holographic microscopy. **2016**,
- 173 Cluster Based Medical Image Registration Using Optimized Neural Network. **2017**, 1437-1467
- 172 Non Sub-sampled Contourlet Transform Based Feature Extraction Technique for Differentiating Glioma Grades Using MRI Images. **2017**, 289-300
- 171 A New Infrared and Visible Image Fusion Algorithm in NSCT Domain. **2017**, 420-431 2
- 170 The Combination of Adaptive Filters to Improve the Quality of Medical Images in New Wavelet Domain. **2017**, 1935-1966
- 169 Medical Image Fusion in Wavelet and Ridgelet Domains. **2017**, 711-723
- 168 Shearlet Based Medical Image Fusion Using Pulse-Coupled Neural Network with Fuzzy Memberships. **2017**, 337-344
- 167 Image Fusion Method Based on Sparse and Redundant Representation. **2018**, 333-348

166 Affine shear tight frames with two-layer structure. **2017**,

165 Target interpretation of visible light image and infrared image fusion method. **2017**,

164 Visibility-enhanced dual-band infrared image fusion based on Nonsubsampled Contourlet transform. **2017**,

1

163 Hyperspectral image classification using nonsubsampled shearlet transform. **2017**,

0

162 Two-stage image denoising considering interscale and intrascale dependencies. **2017**, 26, 1

161 A Novel Image Denoising Algorithm Based on Non-subsampled Contourlet Transform and Modified NLN. **2018**, 689-699

160 Improving the Spatial Resolution of AWiFS Sensor Data Using LISS III and AWiFS DataPair with Contourlet Transform Learning. **2018**, 105-119

159 Accurate reconstruction in digital holographic microscopy using antialiasing shift-invariant contourlet transform. **2018**, 57, 1

158 Adaptive structured dictionary learning for image fusion based on group-sparse-representation. **2018**,

157 Multimodal medical image fusion by combining gradient minimization smoothing filter and non-subsampled directional filter bank. **2018**,

156 Transmission Tower Extraction in High Resolution SAR Image Based on NSCT. **2018**,

155 Surface Filtering. **2019**, 59-137

154 Surface Classification. **2019**, 139-194

153 Non-Subsampled Contourlet Transform-Based Effective Denoising of Medical Images. **2019**, 155-183

152 Feature Extraction of Foam Nickel Surface Based on Multi-Scale Texture Analysis. **2019**, 23, 175-182

151 Multimodel fusion method via sparse representation at pixel-level and feature-level. **2019**, 58, 1

1

150 Mathematical Preliminaries. **2020**, 7-24

149 Nonsubsampled Shearlet and Guided Filter Based Despeckling Method for Medical Ultrasound Images. **2020**, 123-142

- 148 Remote Sensing Image Fusion Based on Multi-morphological Convolutional Neural Network. **2020**, 485-495
- 147 Ground Penetrating Radar Image Denoising via Nonuniform Directional Filter Bank Method. 427-441
- 146 FREQUENCY ENCODED BINARY PATTERN: ANEW FEATURE DESCRIPTOR FOR MEDICAL IMAGE RETRIEVAL. **2020**, 15,
- 145 Wavelet Transforms: From Classical to New Generation Wavelets. **2020**, 13-29 0
- 144 Brain medical image fusion scheme based on shuffled frog-leaping algorithm and adaptive pulse-coupled neural network. **2021**, 15, 1203-1209 0
- 143 Enhancement Method for Aviation Image Based on Improved NSCT. **2020**,
- 142 A Nonlocal Denoising Framework Based on Tensor Robust Principal Component Analysis with  $\beta$  norm. **2020**, 0
- 141 Medical Image Fusion Based on Undecimated Dual-Tree Complex Wavelet Transform and NSCT. **2021**, 472-484
- 140 Fusion of Infrared and Visible Images Using Fuzzy Based Siamese Convolutional Network. **2022**, 70, 5503-5518 15
- 139 Multimodal image fusion and denoising in NSCT domain using CNN and FOTGV. **2022**, 71, 103214 1
- 138 Neuro-Fuzzy-Based Smart Irrigation System and Multimodal Image Analysis in Static-Clustered Wireless Sensor Network for Marigold Crops. **2020**, 237-255 1
- 137 A Bilevel Integrated Model With Data-Driven Layer Ensemble for Multi-Modality Image Fusion. *IEEE Transactions on Image Processing*, **2021**, 30, 1261-1274 8.7 16
- 136 Application Analysis of Contourlet Transform in Image Denoising of Flue-Cured Tobacco Leaves. **2020**, 511-516
- 135 Remote Sensing Image Fusion Using Improved IHS and Non-subsampled Contourlet Transform. **2020**, 55-67 0
- 134 Underwater Image Enhancement Based on Color Balance and Edge Sharpening. **2020**, 738-747
- 133 Image fusion with structural saliency measure and content adaptive consistency verification. **2020**, 29, 1 1
- 132 A cognitive approach to endometrial tuberculosis identification using hierarchical deep fusion method. 1
- 131 Infrared and visible image fusion based on non-subsampled shearlet transform, regional energy, and co-occurrence filtering. **2020**, 56, 761-764 3

- 130 Image Denoising Using Neighbouring Contourlet Coefficients. **2008**, 384-391 2
- 129 Feature identification of non-stochastic surfaces with non-subsampled contourlet transform. **2020**,
- 128 An investigation of data fusion for defects inspection in additive manufacturing. **2020**,
- 127 No-reference stereoscopic image quality assessment on both complex contourlet and spatial domain via Kernel ELM. **2022**, 101, 116547
- 126 Multimodal medical image fusion using gradient domain guided filter random walk and side window filtering in framelet domain. **2022**, 585, 418-440 0
- 125 Cloud Detection Method Using Convolutional Neural Network Based on Cascaded Color and Texture Feature Attention. **2021**, 0
- 124 Underwater Weak Target Detection Algorithm Based on Space-time Distribution Processing. **2021**,
- 123 Guided filter random walk and improved spiking cortical model based image fusion method in NSST domain. **2021**, 0
- 122 Fringe direction weighted autofocusing algorithm for gear tooth flank form deviation measurement based on an interferogram.. **2021**, 60, 11066-11074
- 121 A GAN-based visible and infrared image fusion algorithm. **2021**,
- 120 Performance Analysis of Multi-scale Transforms for Saliency-Based Infrared and Visible Image Fusion. **2022**, 801-809
- 119 WaveFuse: A Unified Unsupervised Framework for Image Fusion with Discrete Wavelet Transform. **2021**, 162-174 0
- 118 Effective Pan-Sharpening with Transformer and Invertible Neural Network. **2021**, 1-1 4
- 117 Modified Expectation Maximization Method for Automatic Segmentation of MR Brain Images. **2013** ,
- 116 Anisotropic Data-Specific Wavelets for Structure-aware Image Processing. **2020**,
- 115 Non-subsampled Shearlet Entropy and Logistic Regression Based Multiple Sclerosis Detection. **2020**,
- 114 Multi-modal Medical Image Fusion Technique to Improve Glioma Classification Accuracy. **2021**,
- 113 Focus-pixel estimation and optimization for multi-focus image fusion. **2022**, 81, 7711 1

112	Spatially adaptive multi-scale image enhancement based on nonsubsampling contourlet transform. <b>2022</b> , 121, 104014	2
111	Medical image fusion based on local Laplacian decomposition and iterative joint filter.	0
110	Unsupervised Spatial-Spectral CNN-Based Feature Learning for Hyperspectral Image Classification. <b>2022</b> , 60, 1-17	2
109	A combined approach of non-subsampling contourlet transform and convolutional neural network to detect gastrointestinal polyp. <b>2022</b> , 81, 9949-9968	0
108	Optimized multimodal medical image fusion framework using multi-scale geometric and multi-resolution geometric analysis. 1	0
107	Multiscale image fusion based on local standard deviation. <b>2022</b> ,	
106	A high capacity multi-image steganography technique based on golden ratio and non-subsampling contourlet transform. 1	1
105	Hilbert quantum image scrambling and graph signal processing-based image steganography. 1	1
104	Detection of Alzheimer's disease using features of brain region-of-interest-based individual network constructed with the sMRI image.. <b>2022</b> , 98, 102057	2
103	Robust restoration of low-dose cerebral perfusion CT images using NCS-Unet. <b>2022</b> , 33, 1	1
102	Robust Watermarking Algorithm against the Geometric Attacks based on Non-Subsampling Shearlet Transform and Harris-Laplace Detector. <b>2022</b> , 2022, 1-14	
101	Blind watermarking algorithm combining NSCT , DWT , SVD , and HVS.	
100	CT and MRI Medical Image Fusion Using Noise-Removal and Contrast Enhancement Scheme with Convolutional Neural Network.. <b>2022</b> , 24,	0
99	DEDNet: an infrared and visible image fusion architecture based on dual-encoder and channel-picking/Gaussian-filtering models. <b>2022</b> ,	
98	Robust Low-Rank Analysis with Adaptive Weighted Tensor for Image Denoising. <b>2022</b> , 102200	1
97	A homomorphic non-subsampling contourlet transform based ultrasound image despeckling by novel thresholding function and self-organizing map. <b>2022</b> , 42, 512-528	1
96	A novel intuitionistic-near fuzzy sets based image fusion approach: development on hybrid MPI+OpenMP parallel model. 1	
95	Zero-Watermarking Algorithm for Medical Images Based on Nonsubsampling Contourlet Transform and Double Singular Value Decomposition. <b>2021</b> ,	0

94	An Efficient Framework for the Segmentation of Glioma Brain Tumor Using Image Fusion and Co-Active Adaptive Neuro Fuzzy Inference System Classification Method. <b>2021</b> , 11, 3133-3140	
93	CT and MR Image Fusion based on Guided filtering and Phase congruency in Non-Subsampled Shearlet Transform domain. <b>2021</b> ,	
92	Infrared and Visible Image Fusion via Fast Approximate Bilateral Filter and Local Energy Characteristics. <b>2021</b> , 2021, 1-12	
91	Change Detection in Multi-Temporal SAR Images Based on Slow Feature Analysis Combined With Improving Image Fusion Strategy. <b>2022</b> , 1-1	1
90	When Pansharpening Meets Graph Convolution Network and Knowledge Distillation. <b>2022</b> , 1-1	5
89	Hybrid Discrete Wavelet Enhancement Model for Brain NCCT Images. <b>2022</b> ,	
88	An Infrared and Visible Fusion Framework Based on a Novel Decomposition Method. <b>2022</b> , 14, 786	0
87	BMIF: Privacy-Preserving Blockchain-Based Medical Image Fusion.	2
86	Infrared and visible image fusion based on saliency and fast guided filtering. <b>2022</b> , 104178	0
85	An Unsupervised Laplacian Pyramid Network for Radiometrically Accurate Data Fusion of Hyperspectral and Multispectral Imagery. <b>2022</b> , 60, 1-17	2
84	A Pansharpening Based on the Non-Subsampled Contourlet Transform and Convolutional Autoencoder: Application to QuickBird Imagery. <b>2022</b> , 10, 44778-44788	0
83	Hyperspectral image super-resolution using multi-scale decomposition and convolutional neural network based on relation type between low- and high-resolution images. 1	
82	Identification of endometrial tuberculosis in infertility using Non-Subsampled Contourlet based convolution neural network. <b>2022</b> , 202, 117282	0
81	An improved multiresolution technique for pavement texture image evaluating. 1	1
80	Infrared and Visible Image Fusion Based on Cross-modal Extraction Strategy. <b>2022</b> , 104205	
79	High Performance Image Super-Resolution Using Convolutional Neural Networks and Nonsubsampled Contourlet Transform. <b>2022</b> , 67, 418-429	
78	Research on Multivariate Image Processing and Pattern Recognition of Power Equipment Failure. <b>2022</b> ,	
77	X-ray Image Enhancement Based on Nonsubsampled Shearlet Transform and Gradient Domain Guided Filtering. <b>2022</b> , 22, 4074	2

76	Infrared and Visible Image Fusion using Multi-scale Pyramid Network.		0
75	A Self-supervised Residual Feature Learning Model for Multi-focus Image Fusion. <i>IEEE Transactions on Image Processing</i> , <b>2022</b> , 1-1	8.7	2
74	MRI image enhancement based on feature clustering in the NSCT domain. <b>2022</b> , 7, 15633-15658		
73	IGNFusion: An Unsupervised Information Gate Network for Multimodal Medical Image Fusion. <b>2022</b> , 1-15		0
72	Real-time denoising of ultrasound images based on deep learning.		1
71	Video Watermarking Algorithm Based on NSCT, Pseudo 3D-DCT and NMF. <b>2022</b> , 22, 4752		0
70	An efficient biomedical cell image fusion method based on the multilevel low rank representation.		0
69	Multimodal Medical Image Fusion Using Stacked Auto-encoder in NSCT Domain.		0
68	Deep learning with multiresolution handcrafted features for brain MRI segmentation. <b>2022</b> , 102365		0
67	Reliable and robust low rank representation based noisy images multi-focus image fusion.		
66	DUFuse: Deep U-Net for visual and infrared images fusion.		
65	Local-Global Based High-Resolution Spatial-Spectral Representation Network for Pansharpening. <b>2022</b> , 14, 3556		
64	Real Time Protein Crystal Monitoring System. <b>2022</b> ,		
63	Multi-modal medical image fusion based on densely-connected high-resolution CNN and hybrid transformer.		1
62	DAFuse: a fusion for infrared and visible images based on generative adversarial network. <b>2022</b> , 31,		3
61	A robust and secure blind color image watermarking scheme based on contourlet transform and Schur decomposition.		2
60	A Zero-watermark Algorithm for Copyright Protection of Remote Sensing Image Based on Blockchain. <b>2022</b> ,		
59	Denoising Seismic Data via a Threshold Shrink Method in the Non-Subsampled Contourlet Transform Domain. <b>2022</b> , 2022, 1-12		

58	Infrared and Visible Image Fusion Based on Visual Saliency Map and Image Contrast Enhancement. <b>2022</b> , 22, 6390	1
57	Non Sub-Sampled Contourlet with Joint Sparse Representation Based Medical Image Fusion. <b>2023</b> , 44, 1989-2005	
56	Adaptive Fuzzy Logic Despeckling in Non-Subsampled Contourlet Transformed Ultrasound Pictures. <b>2023</b> , 35, 2755-2771	
55	Hybrid pixel based method for multimodal image fusion based on Integration of Pulse Coupled Neural Network (PCNN) and Genetic Algorithm (GA) using Empirical Mode Decomposition (EMD). <b>2022</b> , 94, 104665	0
54	Pansharpener Based on Spectral-Spatial Dependence for Multibands Remote Sensing Images. <b>2022</b> , 10, 76153-76167	0
53	Paediatric Bone Age Assessment from Hand X-ray Using Deep Learning Approach. <b>2022</b> , 373-383	0
52	Simultaneous Seismic Data Interpolation and Denoising Based on Nonsampled Contourlet Transform Integrating With Two-Step Iterative Log Thresholding Algorithm. <b>2022</b> , 60, 1-10	0
51	Infrared and visible image fusion based on particle swarm optimization and dense block. 10,	0
50	New remote sensing image fusion for exploring spatiotemporal evolution of urban land use and land cover. <b>2022</b> , 16,	1
49	Enhanced Supervised Descent Learning Technique for Electromagnetic Inverse Scattering Problems by the Deep Convolutional Neural Networks. <b>2022</b> , 70, 6195-6206	2
48	Study of Multiscale Fused Extraction of Cropland Plots in Remote Sensing Images Based on Attention Mechanism. <b>2022</b> , 2022, 1-8	0
47	Statistical image watermark decoder using NSM-HMT in NSCT-FGPCET magnitude domain. <b>2022</b> , 69, 103312	0
46	DRUNet: A Method for Infrared Point Target Detection. <b>2022</b> , 12, 9299	1
45	MS-Pansharpener Algorithm Based on Dual Constraint Guided Filtering. <b>2022</b> , 14, 4867	0
44	Parameter adaptive unit-linking dual-channel PCNN based infrared and visible image fusion. <b>2022</b> , 514, 21-38	1
43	A grid-line suppression technique based on the nonsampled contourlet transform in digital radiography. <b>2022</b> ,	0
42	Multimodal Brain Image Fusion Based on Improved Rolling Guidance Filter and Wiener Filter. <b>2022</b> , 2022, 1-17	0
41	X-ray Image Enhancement Based on Adaptive Gradient Domain Guided Image Filtering. <b>2022</b> , 12, 10453	0

40	A Method for Medical Microscopic Images Sharpness Evaluation Based on NSST and Variance by Combining Time and Frequency Domains. <b>2022</b> , 22, 7607	0
39	Medical image fusion based on quasi-cross bilateral filtering. <b>2023</b> , 80, 104259	1
38	Polarization dehazing method based on separating and iterative optimizing airlight from frequency domain for different concentrations of haze.	0
37	Machine Learning Based Approach for Automated Cervical Dysplasia Detection Using Multi-Resolution Transform Domain Features. <b>2022</b> , 10, 4126	2
36	Image restoration algorithm incorporating methods to remove noise and blurring from positron emission tomography imaging for Alzheimer's disease diagnosis. <b>2022</b> , 103, 181-189	0
35	Multi-aperture optical flow estimation for artificial compound eye using non-subsampled contourlet transform and guided filter.	0
34	Infrared and visible image fusion based on residual dense network and gradient loss. <b>2023</b> , 128, 104486	1
33	Infrared and Visible Image Fusion Based on Multi-scale Gaussian Rolling Guidance Filter Decomposition. <b>2022</b> , 75-91	0
32	Infrared and Visible Image Fusion based on CNN and Saliency Detection. <b>2022</b> ,	0
31	Infrared and Visible Image Fusion based on Log-domain Decomposition and Information Interaction. <b>2022</b> ,	0
30	Visual Perception Based Blind Stereoscopic Omnidirectional Video Quality Assessment. <b>2022</b> ,	0
29	Medical image fusion using enhanced cross-visual cortex model based on artificial selection and impulse-coupled neural network. <b>2022</b> , 107304	1
28	Use of Metrological Characteristics in Ultrasound Imaging and Artificial Intelligence Techniques for Disease Prediction in Soft Tissue Organs. <b>2023</b> , 1-33	0
27	A multimodal fusion method for Alzheimer's disease based on DCT convolutional sparse representation. 16,	0
26	Infrared and Visible Image Fusion Technology and Application: A Review. <b>2023</b> , 23, 599	2
25	A perceptual framework for infrared-visible image fusion based on multiscale structure decomposition and biological vision. <b>2023</b> , 93, 174-191	0
24	Research on Single Object Detection Technology Based on Infrared Multi-spectrum Fusion. <b>2022</b> ,	0
23	Infrared and visible image fusion algorithm based on spatial domain and image features. <b>2022</b> , 17, e0278055	0

- 22 Automatic target recognition of SAR images based on Transformer. **2021**, ○
- 21 RADFNet: An infrared and visible image fusion framework based on distributed network. **2023**, 13, ○
- 20 Image Fusion Technology in Agriculture. **2023**, 1-15 ○
- 19 Panchromatic and Multispectral Image Fusion Combining GHS, NSST, and PCA. **2023**, 13, 1412 ○
- 18 Underwater bubble plumes multi-scale morphological feature extraction and state recognition method. ○
- 17 A novel cell image fusion approach based on the collaboration of multilevel latent Low-Rank representation and the convolutional neural network. **2023**, 83, 104654 ○
- 16 NSCT-DWT-SVD Composite Digital Watermarking Algorithm based on QR Code. **2022**, ○
- 15 JADD-GAN: A Joint Attention Generative Adversarial Data Fusion Network for Object Detection and Tracking. **2022**, ○
- 14 Medical Image Fusion Using a New Entropy Measure between Intuitionistic Fuzzy Sets Joint Gaussian Curvature Filter. **2023**, 1-1 ○
- 13 Multimodal Image Fusion for X-ray Grating Interferometry. **2023**, 23, 3115 ○
- 12 Infrared and visible image fusion with entropy-based adaptive fusion module and mask-guided convolutional neural network. **2023**, 131, 104629 ○
- 11 A cascading l0 regularization reconstruction method in nonsubsampling contourlet domain for limited-angle CT. **2023**, 451, 128013 ○
- 10 Image denoising technology of power equipment based on deep residual network. **2022**, ○
- 9 PCNN Model Guided by Saliency Mechanism for Image Fusion in Transform Domain. **2023**, 23, 2488 ○
- 8 Sparse Representation-Based Multi-Focus Image Fusion Method via Local Energy in Shearlet Domain. **2023**, 23, 2888 ○
- 7 Pansharpening Using Unsupervised Generative Adversarial Networks With Recursive Mixed-Scale Feature Fusion. **2023**, 16, 3742-3759 ○
- 6 Multimodal medical image fusion based on average cross bilateral filtering. **2022**, ○
- 5 Effective lung cancer diagnosis using multi-focus fusion of CT and PET images with deep learning strategies. 1-17 ○

- 4 Parameter adaptive pulse coupled neural network-based saliency map fusion strategy for salient object detection. ○
- 3 A spectral preserved model based on spectral contribution and dependence with detail injection for pansharpening. **2023**, 13, ○
- 2 An NSST-Based Fusion Method for Airborne Dual-Frequency, High-Spatial-Resolution SAR Images. **2023**, 16, 4362-4370 ○
- 1 Medical image fusion based on extended difference-of-Gaussians and edge-preserving. **2023**, 227, 120301 ○