Xiaoqiang Lu

List of Publications by Year
in descending order

170	10,898	44069	33894
papers	citations	48	99
		h-index	g-index

171	171	171	6405
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Semisupervised Consistent Projection Metric Learning for Person Reidentification. IEEE Transactions on Cybernetics, 2022, 52, 738-747.	9.5	8
2	Disentangled Representation Learning for Cross-Modal Biometric Matching. IEEE Transactions on Multimedia, 2022, 24, 1763-1774.	7.2	19
3	Semisupervised Spectral Degradation Constrained Network for Spectral Super-Resolution. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	8
4	A Novel NMF Guided for Hyperspectral Unmixing From Incomplete and Noisy Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	8
5	Mutual Attention Inception Network for Remote Sensing Visual Question Answering. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	48
6	Unsupervised Change Detection by Cross-Resolution Difference Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	41
7	Spectral Super-Resolution of Multispectral Images Using Spatial–Spectral Residual Attention Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	28
8	Generalized Scene Classification From Small-Scale Datasets With Multitask Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	44
9	Abnormal event detection by a weakly supervised temporal attention network. CAAI Transactions on Intelligence Technology, 2022, 7, 419-431.	8.1	13
10	Cross-Attention Spectral–Spatial Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	14
11	Remote Sensing Scene Classification with Multi-task Learning. Lecture Notes in Electrical Engineering, 2022, , 403-418.	0.4	1
12	Pairwise Comparison Network for Remote-Sensing Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
13	Human action recognition by multiple spatial clues network. Neurocomputing, 2022, 483, 10-21.	5.9	3
14	Remote Sensing Scene Classification by Local–Global Mutual Learning. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	10
15	Meta Self-Supervised Learning for Distribution Shifted Few-Shot Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	9
16	Multi-Level Alignment Network for Cross-Domain Ship Detection. Remote Sensing, 2022, 14, 2389.	4.0	11
17	Rotation-Invariant Attention Network for Hyperspectral Image Classification. IEEE Transactions on Image Processing, 2022, 31, 4251-4265.	9.8	80
18	A Spatial–Spectral Joint Attention Network for Change Detection in Multispectral Imagery. Remote Sensing, 2022, 14, 3394.	4.0	4

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19	Bio-Inspired Representation Learning for Visual Attention Prediction. IEEE Transactions on Cybernetics, 2021, 51, 3562-3575.	9.5	17
20	Deep Category-Level and Regularized Hashing With Global Semantic Similarity Learning. IEEE Transactions on Cybernetics, 2021, 51, 6240-6252.	9.5	22
21	Generative Adversarial Capsule Network With ConvLSTM for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 523-527.	3.1	23
22	TTH-RNN: Tensor-Train Hierarchical Recurrent Neural Network for Video Summarization. IEEE Transactions on Industrial Electronics, 2021, 68, 3629-3637.	7.9	46
23	Fine-Grained Visual Categorization by Localizing Object Parts With Single Image. IEEE Transactions on Multimedia, 2021, 23, 1187-1199.	7.2	14
24	Vision-to-Language Tasks Based on Attributes and Attention Mechanism. IEEE Transactions on Cybernetics, 2021, 51, 913-926.	9.5	31
25	Person Reidentification via Unsupervised Cross-View Metric Learning. IEEE Transactions on Cybernetics, 2021, 51, 1849-1859.	9.5	21
26	Audio description from image by modal translation network. Neurocomputing, 2021, 423, 124-134.	5.9	14
27	Spectralâ€"Spatial Joint Sparse NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2391-2402.	6.3	40
28	Local and correlation attention learning for subtle facial expression recognition. Neurocomputing, 2021, 453, 742-753.	5.9	8
29	Reconstructive Sequence-Graph Network for Video Summarization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	36
30	Bidirectional Interaction Network for Person Re-Identification. IEEE Transactions on Image Processing, 2021, 30, 1935-1948.	9.8	24
31	Cross-Domain Scene Classification by Integrating Multiple Incomplete Sources. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10035-10046.	6.3	14
32	Multisource Remote Sensing Data Classification With Graph Fusion Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10062-10072.	6.3	45
33	A Supervised Segmentation Network for Hyperspectral Image Classification. IEEE Transactions on Image Processing, 2021, 30, 2810-2825.	9.8	114
34	Hyperspectral Image Super-Resolution with Self-Supervised Spectral-Spatial Residual Network. Remote Sensing, 2021, 13, 1260.	4.0	20
35	Attention-Based Multi-Branch Network for Low-Light Image Enhancement. , 2021, , .		0
36	Remote Sensing Image Generation From Audio. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 994-998.	3.1	4

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37	Fully Unsupervised Person Re-Identification by Enhancing Cluster Samples. , 2021, , .		0
38	Remote Sensing Scene Classification by Gated Bidirectional Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 82-96.	6.3	172
39	Discrete Deep Hashing With Ranking Optimization for Image Retrieval. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2052-2063.	11.3	19
40	Exploiting Embedding Manifold of Autoencoders for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1527-1537.	6.3	65
41	Sound Active Attention Framework for Remote Sensing Image Captioning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1985-2000.	6.3	53
42	Subspace Clustering Constrained Sparse NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3007-3019.	6.3	41
43	Deep discrete hashing with pairwise correlation learning. Neurocomputing, 2020, 385, 111-121.	5.9	25
44	Multisource Compensation Network for Remote Sensing Cross-Domain Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2504-2515.	6.3	82
45	Gated and Axis-Concentrated Localization Network for Remote Sensing Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 179-192.	6.3	51
46	Spectralâ€"Spatial Attention Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3232-3245.	6.3	239
47	Property-Constrained Dual Learning for Video Summarization. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3989-4000.	11.3	47
48	Spatial attention based visual semantic learning for action recognition in still images. Neurocomputing, 2020, 413, 383-396.	5.9	14
49	Nonlocal Graph Convolutional Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8246-8257.	6.3	165
50	Attribute-Cooperated Convolutional Neural Network for Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8358-8371.	6.3	16
51	A Deep Hashing Technique for Remote Sensing Image-Sound Retrieval. Remote Sensing, 2020, 12, 84.	4.0	29
52	Retrieval Topic Recurrent Memory Network for Remote Sensing Image Captioning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 256-270.	4.9	40
53	A Joint Relationship Aware Neural Network for Single-Image 3D Human Pose Estimation. IEEE Transactions on Image Processing, 2020, 29, 4747-4758.	9.8	22
54	Siamese Dilated Inception Hashing With Intra-Group Correlation Enhancement for Image Retrieval. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3032-3046.	11.3	5

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55	Deep Cross-Modal Image–Voice Retrieval in Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7049-7061.	6.3	56
56	Mobile person re-identification with a lightweight trident CNN. Science China Information Sciences, 2020, 63, 1.	4.3	1
57	Deep balanced discrete hashing for image retrieval. Neurocomputing, 2020, 403, 224-236.	5.9	41
58	Supervised deep hashing with a joint deep network. Pattern Recognition, 2020, 105, 107368.	8.1	30
59	Unregistered Hyperspectral and Multispectral Image Fusion with Synchronous Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2020, , 602-614.	1.3	4
60	Semantic Descriptions of High-Resolution Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1274-1278.	3.1	74
61	A Feature Aggregation Convolutional Neural Network for Remote Sensing Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7894-7906.	6.3	146
62	Weather recognition via classification labels and weather-cue maps. Pattern Recognition, 2019, 95, 272-284.	8.1	28
63	CAM-RNN: Co-Attention Model Based RNN for Video Captioning. IEEE Transactions on Image Processing, 2019, 28, 5552-5565.	9.8	97
64	The Spectral-Spatial Joint Learning for Change Detection in Multispectral Imagery. Remote Sensing, 2019, 11, 240.	4.0	58
65	Detection of ships in inland river using high-resolution optical satellite imagery based on mixture of deformable part models. Journal of Parallel and Distributed Computing, 2019, 132, 1-7.	4.1	14
66	Robust Space–Frequency Joint Representation for Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7492-7502.	6.3	51
67	Hierarchical and Robust Convolutional Neural Network for Very High-Resolution Remote Sensing Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5535-5548.	6.3	163
68	Similarity Constrained Convex Nonnegative Matrix Factorization for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4810-4822.	6.3	26
69	A Deep Scene Representation for Aerial Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4799-4809.	6.3	96
70	Exploiting spatial relation for fine-grained image classification. Pattern Recognition, 2019, 91, 47-55.	8.1	36
71	Bidirectional adaptive feature fusion for remote sensing scene classification. Neurocomputing, 2019, 328, 135-146.	5.9	45
72	Hyperspectral Image Denoising by Fusing the Selected Related Bands. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2596-2609.	6.3	35

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73	3G structure for image caption generation. Neurocomputing, 2019, 330, 17-28.	5.9	27
74	Muti-stage learning for gender and age prediction. Neurocomputing, 2019, 334, 114-124.	5.9	23
75	Remote Sensing Image Scene Classification Using Rearranged Local Features. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1779-1792.	6.3	87
76	Face Sketch Synthesis by Multidomain Adversarial Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1419-1428.	11.3	46
77	Unsupervised Learning of Human Action Categories in Still Images with Deep Representations. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-20.	4.3	4
78	Deep Voice-Visual Cross-Modal Retrieval with Deep Feature Similarity Learning. Lecture Notes in Computer Science, 2019, , 454-465.	1.3	5
79	Video Synopsis in Complex Situations. IEEE Transactions on Image Processing, 2018, 27, 3798-3812.	9.8	23
80	Exploring Models and Data for Remote Sensing Image Caption Generation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2183-2195.	6.3	274
81	A Hybrid Sparsity and Distance-Based Discrimination Detector for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1704-1717.	6.3	91
82	Auxiliary Loss Multimodal GRU Model in Audio-Visual Speech Recognition. IEEE Access, 2018, 6, 5573-5583.	4.2	26
83	Hyperspectral image classification based on joint spectrum of spatial space and spectral space. Multimedia Tools and Applications, 2018, 77, 29759-29777.	3.9	9
84	A Coarse-to-Fine Semi-Supervised Change Detection for Multispectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3587-3599.	6.3	58
85	Multi-modal gated recurrent units for image description. Multimedia Tools and Applications, 2018, 77, 29847-29869.	3.9	17
86	Person Reidentification Based on Elastic Projections. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1314-1327.	11.3	18
87	Key Frame Extraction in the Summary Space. IEEE Transactions on Cybernetics, 2018, 48, 1923-1934.	9.5	41
88	Hierarchical Recurrent Neural Hashing for Image Retrieval With Hierarchical Convolutional Features. IEEE Transactions on Image Processing, 2018, 27, 106-120.	9.8	106
89	Structured dictionary learning for abnormal event detection in crowded scenes. Pattern Recognition, 2018, 73, 99-110.	8.1	42
90	Enhancing Boundary for Video Object Segmentation. , 2018, , .		0

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91	Action Recognition by Jointly Using Video Proposal and Trajectory. , 2018, , .		3
92	HSA-RNN: Hierarchical Structure-Adaptive RNN for Video Summarization. , 2018, , .		135
93	A CNN–RNN architecture for multi-label weather recognition. Neurocomputing, 2018, 322, 47-57.	5.9	87
94	A Robust Sparse Representation Based Pattern Recognition Approach for Myoelectric Control. IEEE Access, 2018, 6, 38326-38335.	4.2	39
95	Video Captioning with Tube Features. , 2018, , .		22
96	Joint Dictionary Learning for Multispectral Change Detection. IEEE Transactions on Cybernetics, 2017, 47, 884-897.	9.5	139
97	Statistical Hypothesis Detector for Abnormal Event Detection in Crowded Scenes. IEEE Transactions on Cybernetics, 2017, 47, 3597-3608.	9.5	51
98	Penalized Linear Discriminant Analysis of Hyperspectral Imagery for Noise Removal. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 359-363.	3.1	15
99	Hyperspectral Image Superresolution by Transfer Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1963-1974.	4.9	183
100	A General Framework for Edited Video and Raw Video Summarization. IEEE Transactions on Image Processing, 2017, 26, 3652-3664.	9.8	94
101	AID: A Benchmark Data Set for Performance Evaluation of Aerial Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3965-3981.	6.3	1,291
102	Remote Sensing Scene Classification by Unsupervised Representation Learning. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5148-5157.	6.3	242
103	Remote Sensing Image Scene Classification: Benchmark and State of the Art. Proceedings of the IEEE, 2017, 105, 1865-1883.	21.3	1,570
104	Hierarchical Recurrent Neural Network for Video Summarization. , 2017, , .		119
105	Deep Temporal Architecture for Audiovisual Speech Recognition. Communications in Computer and Information Science, 2017, , 650-661.	0.5	1
106	Dimensionality Reduction by Spatial–Spectral Preservation in Selected Bands. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5185-5197.	6.3	67
107	Discovering Diverse Subset for Unsupervised Hyperspectral Band Selection. IEEE Transactions on Image Processing, 2017, 26, 51-64.	9.8	174
108	Latent Semantic Minimal Hashing for Image Retrieval. IEEE Transactions on Image Processing, 2017, 26, 355-368.	9.8	126

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109	Learning deep event models for crowd anomaly detection. Neurocomputing, 2017, 219, 548-556.	5.9	140
110	On Combining Social Media and Spatial Technology for POI Cognition and Image Localization. Proceedings of the IEEE, 2017, 105, 1937-1952.	21.3	20
111	A Multi-Task Framework for Weather Recognition. , 2017, , .		18
112	Real-time classification of forearm movements based on high density surface electromyography. , 2017, , .		8
113	Image2song: Song Retrieval via Bridging Image Content and Lyric Words. , 2017, , .		6
114	Identification of isotonic forearm motions using muscle synergies for brain injured patients. , 2017, , .		0
115	MAM-RNN: Multi-level Attention Model Based RNN for Video Captioning. , 2017, , .		53
116	JM-Net and Cluster-SVM for Aerial Scene Classification. , 2017, , .		7
117	Temporal Multimodal Learning in Audiovisual Speech Recognition. , 2016, , .		62
118	Spatiotemporal Statistics for Video Quality Assessment. IEEE Transactions on Image Processing, 2016, 25, 3329-3342.	9.8	140
119	Action recognition by joint learning. Image and Vision Computing, 2016, 55, 77-85.	4.5	13
120	Robust object tracking via diverse templates. , 2016, , .		1
121	Deep Representation for Abnormal Event Detection in Crowded Scenes. , 2016, , .		31
122	Deep semantic understanding of high resolution remote sensing image. , 2016, , .		121
123	Image de-fencing with hyperspectral camera. , 2016, , .		2
124	Deep object tracking with multi-modal data. , 2016, , .		1
125	A non-negative low-rank representation for hyperspectral band selection. International Journal of Remote Sensing, 2016, 37, 4590-4609.	2.9	21
126	A target detection method for hyperspectral image based on mixture noise model. Neurocomputing, 2016, 216, 331-341.	5.9	24

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127	Multimodal Learning via Exploring Deep Semantic Similarity. , 2016, , .		11
128	Video parsing via spatiotemporally analysis with images. Multimedia Tools and Applications, 2016, 75, 11961-11976.	3.9	4
129	Local structure learning in high resolution remote sensing image retrieval. Neurocomputing, 2016, 207, 813-822.	5.9	43
130	A discriminative representation for human action recognition. Pattern Recognition, 2016, 59, 88-97.	8.1	18
131	Surveillance Video Synopsis via Scaling Down Objects. IEEE Transactions on Image Processing, 2016, 25, 740-755.	9.8	90
132	Scene Parsing From an MAP Perspective. IEEE Transactions on Cybernetics, 2015, 45, 1876-1886.	9.5	25
133	Representative and diverse video summarization. , 2015, , .		3
134	Scene Recognition by Manifold Regularized Deep Learning Architecture. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2222-2233.	11.3	178
135	Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2975-2986.	6.3	58
136	Image quality assessment: A sparse learning way. Neurocomputing, 2015, 159, 227-241.	5.9	39
137	Spectralâ€"Spatial Kernel Regularized for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3815-3832.	6.3	71
138	Projection-Based NMF for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2632-2643.	4.9	40
139	Semi-Supervised Multitask Learning for Scene Recognition. IEEE Transactions on Cybernetics, 2015, 45, 1967-1976.	9.5	132
140	Unsupervised feature learning for scene classification of high resolution remote sensing image. , 2015, , .		3
141	Low-rank representation for 3D hyperspectral images analysis from map perspective. Signal Processing, 2015, 112, 27-33.	3.7	13
142	Semi-supervised change detection method for multi-temporal hyperspectral images. Neurocomputing, 2015, 148, 363-375.	5.9	77
143	Multi-spectral pedestrian detection. Signal Processing, 2015, 110, 94-100.	3.7	18
144	Video quality assessment via supervised topic model. , 2014, , .		1

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145	Alternatively Constrained Dictionary Learning For Image Superresolution. IEEE Transactions on Cybernetics, 2014, 44, 366-377.	9.5	81
146	Double Constrained NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2746-2758.	6.3	112
147	Person Re-identification by Bidirectional Projection. , 2014, , .		5
148	Refraction angle extracting strategy for fan-beam differential phase contrast CT. Neurocomputing, 2014, 141, 160-169.	5.9	2
149	Group sparse reconstruction for image segmentation. Neurocomputing, 2014, 136, 41-48.	5.9	64
150	Hybrid structure for robust dimensionality reduction. Neurocomputing, 2014, 124, 131-138.	5.9	6
151	Graph-Regularized Low-Rank Representation for Destriping of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4009-4018.	6.3	276
152	Slow Feature Analysis for Multi-Camera Activity Understanding. , 2013, , .		1
153	3D prostate MR image segmentation: A multi-task approach. , 2013, , .		0
154	Data-dependent semi-supervised hyperspectral image classification. , 2013, , .		4
155	Mixture gradient detector for subpixel detection. , 2013, , .		2
156	Object or background: Whose call is it in complicated scene classification?. , 2013, , .		1
157	Local tomography based on grey model. Neurocomputing, 2013, 101, 10-17.	5.9	5
158	Robust visual tracking with discriminative sparse learning. Pattern Recognition, 2013, 46, 1762-1771.	8.1	70
159	Sparse Coding From a Bayesian Perspective. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 929-939.	11.3	52
160	Manifold Regularized Sparse NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2815-2826.	6.3	322
161	Image Super-Resolution Via Double Sparsity Regularized Manifold Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 2022-2033.	8.3	71
162	Image Jigsaw Puzzles with a Self-Correcting Solver. , 2013, , .		1

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163	Robust Alternative Minimization for Matrix Completion. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 939-949.	5.0	34
164	Geometry constrained sparse coding for single image super-resolution. , 2012, , .		29
165	A novel alternative algorithm for limited angle tomography. , 2011, , .		2
166	Image reconstruction by an alternating minimisation. Neurocomputing, 2011, 74, 661-670.	5.9	14
167	Optimization for limited angle tomography in medical image processing. Pattern Recognition, 2011, 44, 2427-2435.	8.1	31
168	Utilizing homotopy for single image superresolution. , 2011, , .		6
169	Local learning-based image super-resolution. , 2011, , .		9
170	Adaptive wavelet-Galerkin methods for limited angle tomography. Image and Vision Computing, 2010, 28, 696-703.	4.5	15