Ce Zhu

List of Publications by Year
in descending order

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173	5,708	87723	106150
papers	citations	38 h-index	65 g-index

175	175	175	3673
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low-Rankness Guided Group Sparse Representation for Image Restoration. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7593-7607.	7.2	19
2	Smooth Compact Tensor Ring Regression. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4439-4452.	4.0	8
3	Feature Encoding With Autoencoders for Weakly Supervised Anomaly Detection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2454-2465.	7.2	31
4	Prototype-Based Multisource Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5308-5320.	7.2	7
5	A Hybrid Structural Sparsification Error Model for Image Restoration. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4451-4465.	7.2	21
6	Nonconvex Structural Sparsity Residual Constraint for Image Restoration. IEEE Transactions on Cybernetics, 2022, 52, 12440-12453.	6.2	12
7	Robust Principal Tensor Component Analysis. , 2022, , 133-162.		1
8	Deep Networks for Tensor Approximation. , 2022, , 265-284.		0
9	Low-Rank Tensor Recovery. , 2022, , 93-114.		0
10	Learning Clustering for Motion Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 908-919.	5.6	5
11	Real-world single image super-resolution: A brief review. Information Fusion, 2022, 79, 124-145.	11.7	133
12	Deep anomaly detection in packet payload. Neurocomputing, 2022, 485, 205-218.	3.5	21
13	Tensor decompositions: computations, applications, and challenges. , 2022, , 1-30.		4
14	An Integrated System forÂUnbiased Parkinsonâ€™s Disease Detection fromÂHandwritten Drawings. Smart Innovation, Systems and Technologies, 2022, , 3-13.	0.5	6
15	MA-GANet: A Multi-Attention Generative Adversarial Network for Defocus Blur Detection. IEEE Transactions on Image Processing, 2022, 31, 3494-3508.	6.0	3
16	Trainable Subspaces for Low Rank Tensor Completion: Model and Analysis. IEEE Transactions on Signal Processing, 2022, 70, 2502-2517.	3.2	6
17	Simultaneous Nonlocal Low-Rank And Deep Priors For Poisson Denoising. , 2022, , .		4
18	Unsupervised Real-World Image Super-Resolution via Dual Synthetic-to-Realistic and Realistic-to-Synthetic Translations. IEEE Signal Processing Letters, 2022, 29, 1282-1286.	2.1	2

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19	Dysphagia diagnosis system with integrated speech analysis from throat vibration. Expert Systems With Applications, 2022, 204, 117496.	4.4	2
20	Joint Power and Bandwidth Allocation for 3D Video SoftCast. , 2022, , .		1
21	Low-rank tensor ring learning for multi-linear regression. Pattern Recognition, 2021, 113, 107753.	5.1	7
22	Siamese Network for RGB-D Salient Object Detection and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	76
23	AMP-Net: Denoising-Based Deep Unfolding for Compressive Image Sensing. IEEE Transactions on Image Processing, 2021, 30, 1487-1500.	6.0	112
24	Triply Complementary Priors for Image Restoration. IEEE Transactions on Image Processing, 2021, 30, 5819-5834.	6.0	42
25	Multi-mode Tensor Singular Value Decomposition for Low-Rank Image Recovery. Lecture Notes in Computer Science, 2021, , 238-249.	1.0	1
26	Smart Dysphagia Detection System with Adaptive Boosting Analysis of Throat Signals. , 2021, , .		2
27	Deep Learning Based Gait Analysis for Contactless Dementia Detection System from Video Camera. , 2021, , .		1
28	Depth map superâ€resolution via shapeâ€adaptive nonâ€local regression and directionâ€based local smoothness. Electronics Letters, 2021, 57, 475-477.	0.5	1
29	Low-Rank Regularized Joint Sparsity for Image Denoising. , 2021, , .		1
30	Single depth map super-resolution via joint non-local self-similarity modeling and local multi-directional gradient-guided regularization. Signal Processing: Image Communication, 2021, 97, 116313.	1.8	1
31	Learning various length dependence by dual recurrent neural networks. Neurocomputing, 2021, 466, 1-15.	3.5	6
32	Bayesian Low Rank Tensor Ring for Image Recovery. IEEE Transactions on Image Processing, 2021, 30, 3568-3580.	6.0	30
33	Image Restoration via Reconciliation of Group Sparsity and Low-Rank Models. IEEE Transactions on Image Processing, 2021, 30, 5223-5238.	6.0	58
34	Inter-Block Dependency-Based CTU Level Rate Control for HEVC. IEEE Transactions on Broadcasting, 2020, 66, 113-126.	2.5	36
35	Low CP Rank and Tucker Rank Tensor Completion for Estimating Missing Components in Image Data. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 944-954.	5.6	54
36	Robust block tensor principal component analysis. Signal Processing, 2020, 166, 107271.	2.1	25

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37	Fast Depth and Inter Mode Prediction for Quality Scalable High Efficiency Video Coding. IEEE Transactions on Multimedia, 2020, 22, 833-845.	5.2	14
38	Deep Cascade Model-Based Face Recognition: When Deep-Layered Learning Meets Small Data. IEEE Transactions on Image Processing, 2020, 29, 1016-1029.	6.0	49
39	From Rank Estimation to Rank Approximation: Rank Residual Constraint for Image Restoration. IEEE Transactions on Image Processing, 2020, 29, 3254-3269.	6.0	81
40	Image Restoration Using Joint Patch-Group-Based Sparse Representation. IEEE Transactions on Image Processing, 2020, 29, 7735-7750.	6.0	73
41	Reconciliation Of Group Sparsity And Low-Rank Models For Image Restoration. , 2020, , .		7
42	Robust Low-Rank Tensor Ring Completion. IEEE Transactions on Computational Imaging, 2020, 6, 1117-1126.	2.6	33
43	Group Sparsity Residual Constraint With Non-Local Priors for Image Restoration. IEEE Transactions on Image Processing, 2020, 29, 8960-8975.	6.0	78
44	Distribution-Aware Coordinate Representation for Human Pose Estimation. , 2020, , .		253
45	Image Restoration via Simultaneous Nonlocal Self-Similarity Priors. IEEE Transactions on Image Processing, 2020, 29, 8561-8576.	6.0	84
46	The Power Of Triply Complementary Priors For Image Compressive Sensing. , 2020, , .		12
47	Fast Depth and Mode Decision in Intra Prediction for Quality SHVC. IEEE Transactions on Image Processing, 2020, 29, 6136-6150.	6.0	9
48	A Hybrid Structural Sparse Error Model for Image Deblocking. , 2020, , .		7
49	A Benchmark for Sparse Coding: When Group Sparsity Meets Rank Minimization. IEEE Transactions on Image Processing, 2020, 29, 5094-5109.	6.0	74
50	Video Coding Optimization for Virtual Reality 360-Degree Source. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 118-129.	7.3	113
51	Low-Rank Tensor Train Coefficient Array Estimation for Tensor-on-Tensor Regression. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5402-5411.	7.2	23
52	Smooth robust tensor principal component analysis for compressed sensing of dynamic MRI. Pattern Recognition, 2020, 102, 107252.	5.1	29
53	Provable tensor ring completion. Signal Processing, 2020, 171, 107486.	2.1	28
54	MultiANet: a Multi-Attention Network for Defocus Blur Detection. , 2020, , .		2

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55	Temporal dependency based Lagrange multiplier adaptation for HEVC. , 2020, , .		2
56	Image Completion Using Low Tensor Tree Rank and Total Variation Minimization. IEEE Transactions on Multimedia, 2019, 21, 338-350.	5.2	59
57	Optimal Bit Allocation at Frame Level for Rate Control in HEVC. IEEE Transactions on Broadcasting, 2019, 65, 270-281.	2.5	51
58	Reliable Parkinsonâ€™s Disease Detection by Analyzing Handwritten Drawings: Construction of an Unbiased Cascaded Learning System Based on Feature Selection and Adaptive Boosting Model. IEEE Access, 2019, 7, 116480-116489.	2.6	70
59	A Deep Learning Approach for Multi-Frame In-Loop Filter of HEVC. IEEE Transactions on Image Processing, 2019, 28, 5663-5678.	6.0	138
60	Early diagnosis of Parkinsonâ€™s disease from multiple voice recordings by simultaneous sample and feature selection. Expert Systems With Applications, 2019, 137, 22-28.	4.4	95
61	Automated Detection of Parkinsonâ€™s Disease Based on Multiple Types of Sustained Phonations Using Linear Discriminant Analysis and Genetically Optimized Neural Network. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-10.	2.2	132
62	Joint Texture/Depth Power Allocation for 3-D Video SoftCast. IEEE Transactions on Multimedia, 2019, 21, 2973-2984.	5.2	13
63	Fast Inter Mode Predictions for SHVC. , 2019, , .		7
64	A fully trainable network with RNN-based pooling. Neurocomputing, 2019, 338, 72-82.	3.5	10
65	Residual MultiSmoothlets. , 2019, , .		0
66	Temporal dependency based CTU-level bit allocation for rate control. , 2019, , .		0
67	Integrating Action-aware Features for Saliency Prediction via Weakly Supervised Learning. , 2019, , .		0
68	Multiple Context Aggregation Network for Saliency Prediction. , 2019, , .		0
69	Efficient Estimation of View Synthesis Distortion for Depth Coding Optimization. IEEE Transactions on Multimedia, 2019, 21, 863-874.	5.2	5
70	Low rank tensor completion for multiway visual data. Signal Processing, 2019, 155, 301-316.	2.1	97
71	Adaptive Deep Convolutional Neural Networks for Scene-Specific Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2538-2551.	5.6	31
72	Source Distortion Temporal Propagation Analysis for Random-Access Hierarchical Video Coding Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 546-559.	5.6	36

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73	Efficient Multi-Strategy Intra Prediction for Quality Scalable High Efficiency Video Coding. IEEE Transactions on Image Processing, 2019, 28, 2063-2074.	6.0	29
74	Robust corner detection using altitude to chord ratio accumulation. Multimedia Tools and Applications, 2019, 78, 177-195.	2.6	7
75	Tensor rank learning in CP decomposition via convolutional neural network. Signal Processing: Image Communication, 2019, 73, 12-21.	1.8	37
76	Revisiting image ordinal estimation: how to deal with ordinal relationship in deep learning?. Journal of Electronic Imaging, 2019, 28, 1.	0.5	1
77	Hole Filling With Multiple Reference Views in DIBR View Synthesis. IEEE Transactions on Multimedia, 2018, 20, 1948-1959.	5.2	60
78	Complex Wavelet-Domain Image Watermarking Algorithm Using $$L_1$$ L 1 -Norm Function-Based Quantization. Circuits, Systems, and Signal Processing, 2018, 37, 1268-1286.	1.2	11
79	Independently Recurrent Neural Network (IndRNN): Building A Longer and Deeper RNN. , 2018, , .		450
80	Multiple Low-Ranks plus Sparsity based Tensor Reconstruction for Dynamic MRI. , 2018, , .		1
81	Robust Tensor Principal Component Analysis in All Modes. , 2018, , .		3
82	Improved Robust Tensor Principal Component Analysis via Low-Rank Core Matrix. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1378-1389.	7.3	84
83	Image ordinal classification with deep multiâ€view learning. Electronics Letters, 2018, 54, 1280-1282.	0.5	2
84	Video analytical coding: When video coding meets video analysis. Signal Processing: Image Communication, 2018, 67, 48-57.	1.8	4
85	Light field image compression based on quality aware pseudoâ€temporal sequence. Electronics Letters, 2018, 54, 500-501.	0.5	4
86	Visual aesthetic understanding: Sample-specific aesthetic classification and deep activation map visualization. Signal Processing: Image Communication, 2018, 67, 12-21.	1.8	16
87	A Bayesian Approach to Camouflaged Moving Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2001-2013.	5.6	55
88	Optimization of depth modeling modes in 3D-HEVC depth intra coding. Journal of Real-Time Image Processing, 2017, 13, 85-100.	2.2	3
89	A high payload steganographic algorithm based on edge detection. Displays, 2017, 46, 42-51.	2.0	80
90	Adaptive pedestrian detection using convolutional neural network with dynamically adjusted classifier. Journal of Electronic Imaging, 2017, 26, 013012.	0.5	4

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91	Hybrid CS-DMRI: Periodic Time-Variant Subsampling and Omnidirectional Total Variation Based Reconstruction. IEEE Transactions on Medical Imaging, 2017, 36, 2148-2159.	5.4	25
92	Temporally Dependent Rate-Distortion Optimization for Low-Delay Hierarchical Video Coding. IEEE Transactions on Image Processing, 2017, 26, 4457-4470.	6.0	52
93	Comparison of different compressed sensing algorithms for low SNR ¹⁹F MRI applicationsâ€"Imaging of transplanted pancreatic islets and cells labeled with perfluorocarbons. NMR in Biomedicine, 2017, 30, e3776.	1.6	26
94	Efficient and Robust Corner Detectors Based on Second-Order Difference of Contour. IEEE Signal Processing Letters, 2017, 24, 1393-1397.	2.1	17
95	A frame-level rate control scheme for low delay video coding in HEVC. , 2017, , .		4
96	Iterative block tensor singular value thresholding for extraction of lowrank component of image data. , 2017, , .		16
97	A Novel Method of Minimizing View Synthesis Distortion Based on Its Non-Monotonicity in 3D Video. IEEE Transactions on Image Processing, 2017, 26, 5122-5137.	6.0	7
98	Memory-based pedestrian detection through sequence learning. , 2017, , .		3
99	Towards thinner convolutional neural networks through gradually global pruning. , 2017, , .		2
100	Status-aware projection metric learning for kinship verification. , 2017, , .		13
101	Temporal corelation based hierarchical quantization parameter determination for HEVC video coding. , 2017, , .		4
102	Learning based 3D keypoint detection with local and global attributes in multi-scale space. , 2017, , .		0
103	Analytical distortion aware video coding for computer based video analysis. , 2017, , .		1
104	Attribute-controlled face photo synthesis from simple line drawing. , 2017, , .		9
105	Geometric mesh corner detection using triangle principle. Electronics Letters, 2017, 53, 1354-1356.	0.5	5
106	Structure Prior Effects in Bayesian Approaches of Quantitative Susceptibility Mapping. BioMed Research International, 2016, 2016, 1-10.	0.9	4
107	Hierarchical temporal dependent rate-distortion optimization for low-delay coding. , 2016, , .		8
108	3D interest point detection based on geometric measures and sparse refinement. , 2016, , .		4

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109	Layer-based temporal dependent rate-distortion optimization in Random-Access hierarchical video coding. , 2016, , .		4
110	Texture-Aware Depth Prediction in 3D Video Coding. IEEE Transactions on Broadcasting, 2016, 62, 482-486.	2.5	7
111	Lagrangian Multiplier Adaptation for Rate-Distortion Optimization With Inter-Frame Dependency. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 117-129.	5.6	73
112	Depth Image Based View Synthesis: New Insights and Perspectives on Hole Generation and Filling. IEEE Transactions on Broadcasting, 2016, 62, 82-93.	2.5	67
113	Down-/up-sampling based depth coding by utilizing interview correlation. , 2015, , .		0
114	Reducing Wedgelet lookup table size with down-sampling for depth map coding in 3D-HEVC. , 2015, , .		9
115	Simplified reference pixel selection for constant partition value coding in 3D-HEVC. , 2015, , .		4
116	Depth filter design by jointly utilizing spatial-temporal depth and texture information. , 2015, , .		4
117	Exploiting entropy masking in perceptual graphic rendering. Signal Processing: Image Communication, 2015, 33, 1-13.	1.8	7
118	Depth Coding Based on Depth-Texture Motion and Structure Similarities. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 275-286.	5.6	50
119	Fast crowd density estimation with convolutional neural networks. Engineering Applications of Artificial Intelligence, 2015, 43, 81-88.	4.3	191
120	Camouflage modeling for moving object detection. , 2015, , .		1
121	Convolutional Virtual Electric Field for Image Segmentation Using Active Contours. PLoS ONE, 2014, 9, e110032.	1.1	5
122	Detection model of luster effect in binocular rivalry. , 2014, , .		3
123	Improved segment-wise DC coding for HEVC intra prediction of depth maps. , 2014, , .		3
124	Multipath Routing of Multiple Description Coded Images in Wireless Networks. Journal of Computer Science and Technology, 2014, 29, 576-588.	0.9	3
125	Multiple reference views for hole reduction in DIBR view synthesis. , 2014, , .		6
126	Pixel-Based Inter Prediction in Coded Texture Assisted Depth Coding. IEEE Signal Processing Letters, 2014, 21, 74-78.	2.1	28

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127	End-to-End Rate-Distortion Optimized Description Generation for H.264 Multiple Description Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1523-1536.	5.6	28
128	A New Perspective on Hole Generation and Filling in DIBR Based View Synthesis. , 2013, , .		9
129	Depth-texture cooperative clustering and alignment for high efficiency depth intra-coding. , 2013, , .		3
130	Video organization: Near-Duplicate Video clustering. , 2012, , .		2
131	Multi-description multipath video streaming in wireless ad hoc networks. Signal Processing: Image Communication, 2012, 27, 836-848.	1.8	1
132	Source Distortion Temporal Propagation Model for Motion Compensated Video Coding Optimization. , 2012, , .		49
133	Multiple description coded video streaming in peer-to-peer networks. Signal Processing: Image Communication, 2012, 27, 412-429.	1.8	12
134	Robust Image Hashing Based on Random Gabor Filtering and Dithered Lattice Vector Quantization. IEEE Transactions on Image Processing, 2012, 21, 1963-1980.	6.0	119
135	Binocular Just-Noticeable-Difference Model for Stereoscopic Images. IEEE Signal Processing Letters, 2011, 18, 19-22.	2.1	94
136	Face Region Based Conversational Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 917-931.	5.6	17
137	A soft relevance method for content-based scene categorization in the BoW framework. , 2011, , .		0
138	Boundary Artifact Reduction in View Synthesis of 3D Video: From Perspective of Texture-Depth Alignment. IEEE Transactions on Broadcasting, 2011, 57, 510-522.	2.5	66
139	Joint visual attention and rendering complexity based sample rate estimation in selective rendering. , 2011, , .		0
140	Frame Fusion for Video Copy Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 15-28.	5.6	61
141	Depth No-Synthesis-Error Model for View Synthesis in 3-D Video. IEEE Transactions on Image Processing, 2011, 20, 2221-2228.	6.0	62
142	Selective rendering with graphical saliency model. , 2011, , .		2
143	Knowledge Propagation in Collaborative Tagging for Image Retrieval. Journal of Signal Processing Systems, 2010, 59, 163-175.	1.4	4
144	Suppressing texture-depth misalignment for boundary noise removal in view synthesis. , 2010, , .		5

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145	Motion codevector based search for fast motion estimation. , 2010, , .		0
146	Enhancing Two-Stage Multiple Description Scalar Quantization. IEEE Signal Processing Letters, 2009, 16, 253-256.	2.1	7
147	Joint Multiple Description Coding and Network Coding for Wireless Image Multicast. , 2009, , .		5
148	TWO-STAGE MULTIPLE DESCRIPTION IMAGE CODING USING TCQ. International Journal of Wavelets, Multiresolution and Information Processing, 2009, 07, 665-673.	0.9	3
149	Multiple Description Video Coding Based on Hierarchical B Pictures. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 511-521.	5.6	32
150	M-Description Lattice Vector Quantization: Index Assignment and Analysis. IEEE Transactions on Signal Processing, 2009, 57, 2258-2274.	3.2	21
151	Transform-Exempted Calculation of Sum of Absolute Hadamard Transformed Differences. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1183-1188.	5.6	18
152	Video Transmission Channel Distortion Estimation Model for H.264/AVC Based on Channel Simulation. , 2009, , .		4
153	Efficient Block Matching Motion Estimation Using Multilevel Intra- and Inter-Subblock Features Subblock-Based SATD. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1039-1043.	5.6	5
154	Forward Error Correction-Based 2-D Layered Multiple Description Coding for Error-Resilient H.264 SVC Video Transmission. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1730-1738.	5.6	35
155	A New Multiplication-Free Block Matching Criterion. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 1441-1446.	5.6	12
156	Two-Description Image Coding With Steganography. IEEE Signal Processing Letters, 2008, 15, 887-890.	2.1	7
157	Two-Stage Diversity-Based Multiple Description Image Coding. IEEE Signal Processing Letters, 2008, 15, 837-840.	2.1	17
158	Overlapped Block Motion Compensation Using Modified Sigmoid Window. , 2007, , .		0
159	Multiple Description Video Coding using Hierarchical B Pictures. , 2007, , .		9
160	Optimized Multiple Description Lattice Vector Quantization for Wavelet Image Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 912-917.	5.6	55
161	Multiple Description Shifted Lattice Vector Quantization for Progressive Wavelet Image Coding. , 2006, , .		4
162	Predictive fine granularity successive elimination for fast optimal block-matching motion estimation. IEEE Transactions on Image Processing, 2005, 14, 213-221.	6.0	64

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163	Enhanced Hexagonal Search for Fast Block Motion Estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 1210-1214.	5.6	140
164	Hexagon-based search pattern for fast block motion estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 349-355.	5.6	688
165	A congestion control strategy for multipoint videoconferencing. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 1025-1029.	5.6	4
166	An optimized diamond search algorithm for block motion estimation. , 0, , .		5
167	Vector quantization with minimax L/sub âˆž/ distortion for image coding. , 0, , .		0
168	A novel hexagon-based search algorithm for fast block motion estimation. , 0, , .		42
169	An enhanced hexagonal search algorithm for block motion estimation. , 0, , .		9
170	Smooth constrained block matching criterion for motion estimation. , 0, , .		1
171	Reducing drift for FGS coding based on multiframe motion compensation [video coding]. , 0, , .		1
172	A new successive elimination algorithm for fast block matching in motion estimation. , 0, , .		5
173	Optimized Multiple Description Image Coding Using Lattice Vector Quantization. , 0, , .		10