

Chia-Wen Lin

List of Publications by Year in descending order

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187
papers

5,610
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times ranked

3272
citing authors

#	ARTICLE	IF	CITATIONS
1	A Real-Time Global Inference Network for One-Stage Referring Expression Comprehension. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 134-143.	11.3	19
2	Pruning Networks With Cross-Layer Ranking & k -Reciprocal Nearest Filters. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9139-9148.	11.3	14
3	Carrying Out CNN Channel Pruning in a White Box. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7946-7955.	11.3	10
4	Capturing Small, Fast-Moving Objects: Frame Interpolation via Recurrent Motion Enhancement. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3390-3406.	8.3	14
5	Grayscale Enhancement Colorization Network for Visible-Infrared Person Re-Identification. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1418-1430.	8.3	63
6	TICNet: A Target-Insight Correlation Network for Object Tracking. IEEE Transactions on Cybernetics, 2022, 52, 12150-12162.	9.5	8
7	Asymmetric CNN for Image Superresolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3718-3730.	9.3	56
8	Ensemble Learning With Manifold-Based Data Splitting for Noisy Label Correction. IEEE Transactions on Multimedia, 2022, 24, 1127-1140.	7.2	3
9	Disentangling Task-Oriented Representations for Unsupervised Domain Adaptation. IEEE Transactions on Image Processing, 2022, 31, 1012-1026.	9.8	7
10	Structure-Aware Positional Transformer for Visible-Infrared Person Re-Identification. IEEE Transactions on Image Processing, 2022, 31, 2352-2364.	9.8	77
11	Unsupervised Foggy Scene Understanding via Self Spatial-Temporal Label Diffusion. IEEE Transactions on Image Processing, 2022, 31, 3525-3540.	9.8	17
12	Image super-resolution with an enhanced group convolutional neural network. Neural Networks, 2022, 153, 373-385.	5.9	43
13	Coarse-to-Fine CNN for Image Super-Resolution. IEEE Transactions on Multimedia, 2021, 23, 1489-1502.	7.2	122
14	From IC Layout to Die Photograph: A CNN-Based Data-Driven Approach. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 957-970.	2.7	13
15	DotSCN: Group Re-Identification via Domain-Transferred Single and Couple Representation Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2739-2750.	8.3	20
16	Rain-Free and Residue Hand-in-Hand: A Progressive Coupled Network for Real-Time Image Deraining. IEEE Transactions on Image Processing, 2021, 30, 7404-7418.	9.8	64
17	Complementing Representation Deficiency in Few-shot Image Classification: A Meta-Learning Approach. , 2021, , .		7
18	Shape-Preserving Stereo Object Remapping via Object-Consistent Grid Warping. IEEE Transactions on Image Processing, 2021, 30, 5889-5904.	9.8	0

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19	Uncertainty-Aware Semantic Guidance and Estimation for Image Inpainting. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 310-323.	10.8	16
20	Attention-guided image captioning with adaptive global and local feature fusion. Journal of Visual Communication and Image Representation, 2021, 78, 103138.	2.8	12
21	Designing and training of a dual CNN for image denoising. Knowledge-Based Systems, 2021, 226, 106949.	7.1	82
22	Embedding Regularizer Learning for Multi-View Semi-Supervised Classification. IEEE Transactions on Image Processing, 2021, 30, 6997-7011.	9.8	16
23	Expression-Aware Face Reconstruction via a Dual-Stream Network. IEEE Transactions on Multimedia, 2021, 23, 2998-3012.	7.2	6
24	Spatio-Spectral Feature Fusion for Low-Light Image Enhancement. IEEE Signal Processing Letters, 2021, 28, 2157-2161.	3.6	2
25	DotFAN: A Domain-Transferred Face Augmentation Net. IEEE Transactions on Image Processing, 2021, 30, 8759-8772.	9.8	2
26	Consistency-Constancy Bi-Knowledge Learning for Pedestrian Detection in Night Surveillance. , 2021, , .		13
27	Image Inpainting Guided by Coherence Priors of Semantics and Textures. , 2021, , .		68
28	Discover Cross-Modality Nuances for Visible-Infrared Person Re-Identification. , 2021, , .		94
29	High Quality Disparity Remapping with Two-Stage Warping. , 2021, , .		2
30	Lightweight image super-resolution with enhanced CNN. Knowledge-Based Systems, 2020, 205, 106235.	7.1	99
31	Transferring fashion to surveillance with weak labels. Neural Computing and Applications, 2020, , 1.	5.6	0
32	Deep learning on image denoising: An overview. Neural Networks, 2020, 131, 251-275.	5.9	502
33	Multi-View Data Fusion Oriented Clustering via Nuclear Norm Minimization. IEEE Transactions on Image Processing, 2020, 29, 9600-9613.	9.8	14
34	Perceptual Temporal Incoherence-Guided Stereo Video Retargeting. IEEE Transactions on Image Processing, 2020, 29, 5767-5782.	9.8	9
35	Graph Neural Net Using Analytical Graph Filters and Topology Optimization for Image Denoising. , 2020, , .		4
36	Similarity-Preserving Linkage Hashing for Online Image Retrieval. IEEE Transactions on Image Processing, 2020, 29, 5289-5300.	9.8	39

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37	Expression-Aware Face Reconstruction Via A Dual-Stream Network. , 2020, , .		2
38	DevsNet: Deep Video Saliency Network using Short-term and Long-term Cues. Pattern Recognition, 2020, 103, 107294.	8.1	8
39	Identity-Aware Face Super-Resolution for Low-Resolution Face Recognition. IEEE Signal Processing Letters, 2020, 27, 645-649.	3.6	33
40	HardGAN: A Haze-Aware Representation Distillation GAN for Single Image Dehazing. Lecture Notes in Computer Science, 2020, , 722-738.	1.3	42
41	When Pedestrian Detection Meets Nighttime Surveillance: A New Benchmark. , 2020, , .		13
42	Visible-infrared Person Re-identification via Colorization-based Siamese Generative Adversarial Network. , 2020, , .		15
43	Guidance and Evaluation: Semantic-Aware Image Inpainting for Mixed Scenes. Lecture Notes in Computer Science, 2020, , 683-700.	1.3	62
44	SiGAN: Siamese Generative Adversarial Network for Identity-Preserving Face Hallucination. IEEE Transactions on Image Processing, 2019, 28, 6225-6236.	9.8	62
45	DoT-GNN. , 2019, , .		28
46	Stereo Depth Mapping via Axis-Aligned Warping. , 2019, , .		3
47	Group Re-Identification via Transferred Representation and Adaptive Fusion. , 2019, , .		4
48	TFDASH: A Fairness, Stability, and Efficiency Aware Rate Control Approach for Multiple Clients Over DASH. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 198-211.	8.3	16
49	Prior-Based Quantization Bin Matching for Cloud Storage of JPEG Images. IEEE Transactions on Image Processing, 2018, 27, 3222-3235.	9.8	16
50	CNN-Based Joint Clustering and Representation Learning with Feature Drift Compensation for Large-Scale Image Data. IEEE Transactions on Multimedia, 2018, 20, 421-429.	7.2	95
51	Depth-Aware Stereo Video Retargeting. , 2018, , .		24
52	Perceptual Temporal Incoherence Aware Stereo Video Retargeting. , 2018, , .		3
53	Joint Pairwise Learning and Image Clustering Based on a Siamese CNN. , 2018, , .		3
54	Robust Semisupervised Graph Classifier Learning With Negative Edge Weights. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 712-726.	2.8	19

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55	Robust Face Sketch Synthesis via Generative Adversarial Fusion of Priors and Parametric Sigmoid. , 2018, , .		20
56	Graph fourier transform with negative edges for depth image coding. , 2017, , .		11
57	Unsupervised convolutional neural networks for large-scale image clustering. , 2017, , .		3
58	Objective quality assessment for video retargeting based on spatio-temporal distortion analysis. , 2017, , .		2
59	Supervised-learning based face hallucination for enhancing face recognition. , 2016, , .		4
60	Improved 3D-model texture mapping with region-of-interest weighting and iterative boundary-texture updating. , 2016, , .		0
61	Quantization bin matching for cloud storage of JPEG images. , 2016, , .		0
62	An unequal error protection scheme for reliable peer-to-peer scalable video streaming. Journal of Visual Communication and Image Representation, 2016, 38, 790-801.	2.8	1
63	mDASH: A Markov Decision-Based Rate Adaptation Approach for Dynamic HTTP Streaming. IEEE Transactions on Multimedia, 2016, 18, 738-751.	7.2	114
64	A Markov decision based rate adaption approach for dynamic HTTP streaming. , 2015, , .		1
65	A Novel JSCC Scheme for UEP-Based Scalable Video Transmission Over MIMO Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1002-1015.	8.3	12
66	Depth-Preserving Warping for Stereo Image Retargeting. IEEE Transactions on Image Processing, 2015, 24, 2811-2826.	9.8	42
67	Learning-Based Joint Super-Resolution and Deblocking for a Highly Compressed Image. IEEE Transactions on Multimedia, 2015, 17, 921-934.	7.2	72
68	Introduction to the Issue on Interactive Media Processing for Immersive Communication. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 381-383.	10.8	0
69	Learning-based movie summarization via role-community analysis and feature fusion. , 2015, , .		4
70	Temporally Coherent Superresolution of Textured Video via Dynamic Texture Synthesis. IEEE Transactions on Image Processing, 2015, 24, 919-931.	9.8	8
71	Visual acuity inspired saliency detection by using sparse features. Information Sciences, 2015, 309, 1-10.	6.9	19
72	Video super-resolution via dynamic texture synthesis. , 2014, , .		2

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73	Region-based depth-preserving stereoscopic image retargeting. , 2014, , .		5
74	Self-learning-based post-processing for image/video deblocking via sparse representation. Journal of Visual Communication and Image Representation, 2014, 25, 891-903.	2.8	41
75	Spatiotemporal Grid Flow for Video Retargeting. IEEE Transactions on Image Processing, 2014, 23, 1615-1628.	9.8	40
76	A Control-Theoretic Approach to Rate Adaption for DASH Over Multiple Content Distribution Servers. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 681-694.	8.3	36
77	Objective Quality Assessment for Image Retargeting Based on Perceptual Geometric Distortion and Information Loss. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 377-389.	10.8	86
78	A Video Saliency Detection Model in Compressed Domain. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 27-38.	8.3	194
79	Objective Quality Assessment for Image Retargeting Based on Structural Similarity. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 95-105.	3.6	105
80	Self-Learning Based Image Decomposition With Applications to Single Image Denoising. IEEE Transactions on Multimedia, 2014, 16, 83-93.	7.2	178
81	Low-Overhead Content-Adaptive Spatial Scalability for Scalable Video Coding. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 1084-1095.	10.8	2
82	Under-exposed image enhancement using exposure compensation. , 2013, , .		4
83	Scene-Based Movie Summarization Via Role-Community Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1927-1940.	8.3	57
84	Introduction to the Special Issue on "Recent advances on analysis and processing for distributed video systems" Journal of Visual Communication and Image Representation, 2013, 24, 647-648.	2.8	0
85	Self-learning-based single image super-resolution of a highly compressed image. , 2013, , .		17
86	Low-overhead content-adaptive spatial scalability for scalable video coding. , 2013, , .		0
87	A saliency detection model based on sparse features and visual acuity. , 2013, , .		0
88	Buffer-based smooth rate adaptation for dynamic HTTP streaming. , 2013, , .		20
89	A hybrid sender/receiver-driven error protection scheme for reliable P2P scalable video streaming. , 2013, , .		1
90	Video saliency detection in the compressed domain. , 2012, , .		11

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91	Self-learning-based rain streak removal for image/video. , 2012, , .		29
92	Efficient image/video deblocking via sparse representation. , 2012, , .		7
93	Saliency Detection in the Compressed Domain for Adaptive Image Retargeting. IEEE Transactions on Image Processing, 2012, 21, 3888-3901.	9.8	279
94	Temporal transcoding from H.264/AVC to SVC with hierarchical bidirectional prediction. , 2012, , .		1
95	Context-Aware Single Image Rain Removal. , 2012, , .		81
96	Contribution-Guided Peer Selection for Reliable Peer-to-Peer Video Streaming Over Mesh Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1388-1401.	8.3	10
97	Exemplar-based object posture super-resolution using manifold learning. , 2012, , .		0
98	Automatic Single-Image-Based Rain Streaks Removal via Image Decomposition. IEEE Transactions on Image Processing, 2012, 21, 1742-1755.	9.8	606
99	Bottom-Up Saliency Detection Model Based on Human Visual Sensitivity and Amplitude Spectrum. IEEE Transactions on Multimedia, 2012, 14, 187-198.	7.2	152
100	Image retargeting based on the sensitivity-tuned visual significance map. , 2011, , .		2
101	Human Object Inpainting Using Manifold Learning-Based Posture Sequence Estimation. IEEE Transactions on Image Processing, 2011, 20, 3124-3135.	9.8	12
102	Virtual Contour Guided Video Object Inpainting Using Posture Mapping and Retrieval. IEEE Transactions on Multimedia, 2011, 13, 292-302.	7.2	26
103	Introduction to the ICME2010 Special Issue. IEEE Transactions on Multimedia, 2011, 13, 417-420.	7.2	0
104	Saliency-based image retargeting in the compressed domain. , 2011, , .		18
105	Mosaic-guided video retargeting for video adaptation. Proceedings of SPIE, 2011, , .	0.8	2
106	Maintaining Temporal Coherence in Video Retargeting Using Mosaic-Guided Scaling. IEEE Transactions on Image Processing, 2011, 20, 2339-2351.	9.8	44
107	Single-frame-based rain removal via image decomposition. , 2011, , .		53
108	Fast deconvolution-based image super-resolution using gradient prior. , 2011, , .		5

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109	Contribution-based peer selection for packet protection for P2P video streaming over mesh-based networks. , 2011, , .		3
110	A packet loss estimation model and its application to reliable mesh-based P2P video streaming. , 2011, , .		2
111	Image super-resolution via feature-based affine transform. , 2011, , .		6
112	Bottom-Up Saliency Detection Model Based on Amplitude Spectrum. Lecture Notes in Computer Science, 2011, , 370-380.	1.3	4
113	A game-theoretical pricing mechanism for multiuser rate allocation for video over WiMAX. Proceedings of SPIE, 2010, , .	0.8	0
114	Video object inpainting using manifold-based action prediction. , 2010, , .		2
115	Cross-Layer Packet Retry Limit Adaptation for Video Transport Over Wireless LANs. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1448-1461.	8.3	38
116	Face hallucination using Bayesian global estimation and local basis selection. , 2010, , .		4
117	Video background inpainting using dynamic texture synthesis. , 2010, , .		3
118	Video object inpainting using posture mapping. , 2009, , .		2
119	Cooperative face hallucination using multiple references. , 2009, , .		0
120	Bayesian age estimation on face images. , 2009, , .		3
121	A comparative study on attention-based rate adaptation for scalable video coding. , 2009, , .		3
122	On Peer Selection and Protection for Reliable Peer-to-Peer Video Streaming. Lecture Notes in Computer Science, 2009, , 65-76.	1.3	1
123	Video forgery detection using correlation of noise residue. , 2008, , .		25
124	Video-based person authentication with random passwords. , 2008, , .		3
125	Optimal rate allocation for scalable video multicast over WiMAX. , 2008, , .		18
126	A region-based object tracking scheme using Adaboost-based feature selection. , 2008, , .		6

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127	Automatic Fall Incident Detection in Compressed Video for Intelligent Homecare. , 2007, , .		33
128	Computation-Aware Intra-mode Decision for H.264 Coding and Transcoding. , 2007, , .		0
129	Video Adaptation for Heterogeneous Environments. Euraspip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	0
130	Fast Mode Decision Algorithms for Adaptive GOP Structure in the Scalable Extension of H.264/AVC. , 2007, , .		2
131	Adaptive Error-Resilience Transcoding and Fairness Grouping for Video Multicast Over Wireless Networks. , 2007, , .		5
132	Motion Flow-Based Video Retrieval. IEEE Transactions on Multimedia, 2007, 9, 1193-1201.	7.2	48
133	Visual Quality Enhancement in DCT-Domain Spatial Downscaling Transcoding Using Generalized DCT Decimation. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1079-1084.	8.3	7
134	Adaptive error-resilience transcoding using prioritized intra-refresh for video multicast over wireless networks. Signal Processing: Image Communication, 2007, 22, 277-297.	3.2	12
135	H.264 error resilience coding based on multi-hypothesis motion-compensated prediction. Signal Processing: Image Communication, 2007, 22, 734-751.	3.2	4
136	Robust video streaming over wireless LANs using multiple description transcoding and prioritized retransmission. Journal of Visual Communication and Image Representation, 2007, 18, 191-206.	2.8	16
137	Compressed-domain Fall Incident Detection for Intelligent Homecare. Journal of Signal Processing Systems, 2007, 49, 393-408.	1.0	16
138	Error-resilient video streaming over wireless networks using combined scalable coding and multiple-description coding. Signal Processing: Image Communication, 2007, 22, 403-420.	3.2	7
139	Computation-Aware Intra-mode Decision for H.264 Coding and Transcoding. , 2007, , .		0
140	H.264 Error Resilience Coding Based on Multi-hypothesis Motion Compensated Prediction and Adaptive Intra-refresh. , 2006, , .		2
141	Fast coarse-to-fine video retrieval using shot-level spatio-temporal statistics. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 642-648.	8.3	24
142	Packet Scheduling for Video Streaming over Wireless with Content-Aware Packet Retry Limit. , 2006, , .		7
143	Enhancing video error resilience by using data-embedding techniques. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 300-308.	8.3	16
144	A New Seamless Bitstream Switching Scheme for H.264 Video Adaptation with Enhanced Coding Performance. , 2006, , .		3

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145	Unequal Error Protection for Video Streaming Over Wireless LANs using Content-Aware Packet Retry Limit. , 2006, , .		2
146	Fast coarse-to-fine video retrieval via shot-level statistics. , 2005, 5960, 239.		0
147	DCT-domain spatial transcoding using generalized DCT decimation. , 2005, , .		3
148	Content-aware error-resilient transcoding using prioritized intra-refresh for video streaming. Journal of Visual Communication and Image Representation, 2005, 16, 563-588.	2.8	25
149	Digital Video Transcoding. Proceedings of the IEEE, 2005, 93, 84-97.	21.3	267
150	Automatic Key Posture Selection for Human Behavior Analysis. , 2005, , .		6
151	Fast Video Retrieval via the Statistics of Motion Within the Regions-of-Interest. Lecture Notes in Computer Science, 2005, , 381-387.	1.3	5
152	Dynamic region of interest transcoding for multipoint video conferencing. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 982-992.	8.3	23
153	A Standard-Compliant Virtual Meeting System with Active Video Object Tracking. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.7	3
154	Wireless video transport using conditional retransmission and low-delay interleaving. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 558-565.	8.3	57
155	MPEG-4 Video Streaming with Drift-Compensated Bitstream Switching. Lecture Notes in Computer Science, 2002, , 847-855.	1.3	4
156	MPEG video streaming with VCR-functionality. IEEE Transactions on Circuits and Systems for Video Technology, 2001, 11, 415-425.	8.3	56
157	Implementatio of a realtime object-based virtual meeting system. , 2001, , .		4
158	Low-complexity face-assisted video coding. , 2000, , .		13
159	Motion vector refinement for high-performance transcoding. IEEE Transactions on Multimedia, 1999, 1, 30-40.	7.2	187
160	Hierarchical disparity estimation using spatial correlation. IEEE Transactions on Consumer Electronics, 1998, 44, 630-637.	3.6	11
161	Motion estimation for high performance transcoding. IEEE Transactions on Consumer Electronics, 1998, 44, 649-658.	3.6	40
162	Computation reduction in cascaded DCT-domain video downscaling transcoding. , 0, , .		2

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163	The study of SDH STM-1 add-drop multiplexer architecture. , 0, , .		0
164	Dynamic frame-skipping in video transcoding. , 0, , .		46
165	Rate-distortion constrained quadtree segmentation for stereoscopic video coding. , 0, , .		0
166	Dynamic rate control in multipoint video transcoding. , 0, , .		10
167	Implementation of H.323 multipoint video conference systems with personal presence control. , 0, , .		1
168	MPEG video streaming with VCR functionality. , 0, , .		6
169	Minimum cost implementation of full VCR functionality in MPEG video streaming. , 0, , .		0
170	Wireless video transport using conditional retransmission and low-delay interleaving. , 0, , .		1
171	Fast algorithms for DCT-domain video transcoding. , 0, , .		14
172	A robust video object segmentation scheme with prestored background information. , 0, , .		11
173	Realtime object extraction and tracking with an active camera using image mosaics. , 0, , .		5
174	Error-resilient transcoding using adaptive intra refresh for video streaming. , 0, , .		9
175	MPEG-4 FGS coding performance improvement using adaptive inter-layer prediction. , 0, , .		2
176	A rate-constrained key-frame extraction scheme for channel-aware video streaming. , 0, , .		9
177	Low-complexity dct-domain video transcoders for arbitrary-size downscaung. , 0, , .		7
178	Prioritized retransmission for error protection of video streaming over WLANs. , 0, , .		8
179	Seamless Roaming in Wireless Networks for Video Streaming. , 0, , .		1
180	Compressed-Domain Fall Incident Detection for Intelligent Home Surveillance. , 0, , .		5

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181	Channel-aware robust video streaming over wireless LANs using multiple-description FGS coding. , 0, , .		0
182	R-D Optimized Quantization of H.264 SP-Frames for Bistream Switching under Storage Constraints. , 0, , .		7
183	Fast Video Retrieval via the Statistics of Motion. , 0, , .		0
184	H. 264 Error Resilience Coding Based on Multihypothesis Motion Compensated Prediction. , 0, , .		8
185	Error Resilience Transcoding Using Prioritized Intra-Refresh for Video Multicast Over Wireless Networks. , 0, , .		1
186	Video-Based Face Authentication Using Appearance Models and HMMs. , 0, , .		0
187	Error-resilience transcoding using content-aware intra-refresh based on profit tracing. , 0, , .		2