Liang-Gee Chen

List of Publications by Year
in descending order

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447 papers	7,042 citations	101384 36 h-index	114278 63 g-index
449 all docs	449 docs citations	449 times ranked	2312 citing authors

#	Article	IF	Citations
1	A Computational Efficient Architecture for Extremely Sparse Stereo Network. , 2021, , .		0
2	CMWMF: Constant Memory Architecture of Weighted Mode/Median Filter for Extremely Large Label Depth Refinement. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2981-2993.	5.6	0
3	Hardware- and Memory-Efficient Architecture for Disparity Estimation of Large Label Counts. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3679-3693.	5.6	1
4	Video Stereo Matching with Temporally Consistent Belief Propagation. , 2018, , .		1
5	Accurate and Bandwidth Efficient Architecture for CNN-based Full-HD Super-Resolution. , 2018, , .		11
6	A 473 Î¼W wireless 16-channel neural recording SoC with RF energy harvester. , 2018, , .		1
7	A 120 fps 1080p resolution block-based feature extraction architecture implementation for real-time action recognition. , 2017, , .		0
8	Accurate and fast segment-based cost aggregation algorithm for stereo matching. , 2017, , .		2
9	Efficient Hardware Architecture for Large Disparity Range Stereo Matching Based on Belief Propagation. , 2016, , .		9
10	A real-time 3D interactive system with stereo camera in the uncertain background. , 2015, , .		0
11	Fast realistic refocusing for sparse light fields. , 2015, , .		8
12	Incremental new actions learning system with limited cost and storage. , 2015, , .		0
13	Memory efficient architecture for belief propagation based disparity estimation. , 2015, , .		2
14	23.2 A 1920×1080 30fps 611 mW five-view depth-estimation processor for light-field applications. , 2015, , .		10
15	A 130.3 mW 16-Core Mobile GPU With Power-Aware Pixel Approximation Techniques. IEEE Journal of Solid-State Circuits, 2015, 50, 2212-2223.	3.5	5
16	An integrated system for object tracking, detection, and online learning with real-time RGB-D video. , 2014, , .		2
17	On-the-fly fashion photograph recommendation system with robust face shape features. , 2014, , .		4
18	Region-of-unpredictable determination for accelerated full-frame feature generation in video sequences. , 2014, , .		0

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19	Automatic video segmentation and object tracking with real-time RGB-D data. , 2014, , .		3
20	A real-time system for object detection and location reminding with RGB-D camera. , 2014, , .		8
21	Design and implementation of a low power spike detection processor for 128-channel spike sorting microsystem. , 2014, , .		4
22	Interactive clothing retrieval system. , 2014, , .		3
23	A spatial first 3-D XYT feature point extraction algorithm for efficient human action recognition. , 2014, , .		0
24	Low-power multi-processor system architecture design for universal biomedical signal processing. , 2013, , .		2
25	Acquire user's distance by face detection. , 2013, , .		1
26	3D hand localization by low-cost webcams. Proceedings of SPIE, 2013, , .	0.8	2
27	Evolving technology integration for consumer electronics. , 2013, , .		1
28	Brain-Inspired Framework for Fusion of Multiple Depth Cues. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1137-1149.	5.6	7
29	Intelligent document capturing and blending system based on robust feature matching with an active camera. , 2013, , .		0
30	A 130.3mW 16-core mobile GPU with power-aware approximation techniques. , 2013, , .		5
31	Guest Editorial: Special Section on New Software/Hardware Paradigms for Error-Tolerant Multimedia Systems. IEEE Transactions on Multimedia, 2013, 15, 241-241.	5.2	0
32	Architecture design of the multi-functional wavelet-based ECG microprocessor for realtime detection of abnormal cardiac events. , 2012, 2012, 4466-9.		2
33	An intelligent depth-based obstacle detection for mobile applications. , 2012, , .		4
34	A high speed feature matching architecture for real-time video stabilization. , 2012, , .		0
35	iSense3D: A real-time viewpoint-aware 3D video synthesis system. , 2012, , .		0
36	Channel selection for epilepsy seizure prediction method based on machine learning. , 2012, 2012, 5162-5.		15

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37	Compressive Sensing based Client-Cloud system for 3D depth reconstruction. , 2012, , .		0
38	Assessing normality of heart sound by matching pursuit residue with frequency-domain-based templates. , 2012, 2012, 2917-20.		1
39	A 69mW 140-meter/60fps and 60-meter/300fps intelligent vision SoC for versatile automotive applications. , 2012, , .		10
40	WarmL1: A warm-start homotopy-based reconstruction algorithm for sparse signals. , 2012, , .		1
41	3D image correction by Hilbert Huang decomposition. , 2012, , .		0
42	Exploration of reusing the pre-recorded training data set to improve the supervised classifier for EEG-based motor-imagery brain computer interfaces. , 2012, , .		0
43	Accurate positioning system based on street view recognition. , 2012, , .		1
44	Low power and high accuracy spike sorting microprocessor with on-line interpolation and re-alignment in 90nm CMOS process. , 2012, 2012, 4485-8.		5
45	Robust moving object tracking and trajectory prediction for visual navigation in dynamic environments. , 2012, , .		3
46	Visual Vocabulary Processor Based on Binary Tree Architecture for Real-Time Object Recognition in Full-HD Resolution. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2012, 20, 2329-2332.	2.1	19
47	A depth adaptation system based on perceptual horopter effect. , 2012, , .		0
48	Fast adaptive loop filter algorithm for high efficiency video coding. , 2012, , .		0
49	A real-time multi-user face unlock system via fast sparse coding approximation. , 2012, , .		0
50	A flexible fully hardwired CABAC encoder for UHDTV H.264/AVC high profile video. IEEE Transactions on Consumer Electronics, 2012, 58, 1329-1337.	3.0	14
51	An intelligent depth-based obstacle detection system for visually-impaired aid applications. , 2012, , .		10
52	A Chip Architecture for Compressive Sensing Based Detection of IC Trojans. , 2012, , .		3
53	A viewer centric depth adjustment for stereoscopic images. , 2012, , .		2
54	CRISP-II: Coarse-grained reconfigurable image stream processor for image-processing and intelligent operations in QFHD video cameras. , 2012, , .		1

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55	A 1.0TOPS/W 36-core neocortical computing processor with 2.3Tb/s Kautz NoC for universal visual recognition. , 2012, , .		5
56	A 52 mW Full HD 160-Degree Object Viewpoint Recognition SoC With Visual Vocabulary Processor for Wearable Vision Applications. IEEE Journal of Solid-State Circuits, 2012, 47, 797-809.	3.5	28
57	Intelligent 3D online virtual conferencing system with natural human-computer interaction. , 2011, , .		0
58	A 216fps 4096×2160p 3DTV set-top box SoC for free-viewpoint 3DTV applications. , 2011, , .		5
59	A cortex-like model for rapid object recognition using feature-selective hashing. , 2011, , .		3
60	A 172.6mW 43.8GFLOPS energy-efficient scalable eight-core 3D graphics processor for mobile multimedia applications. , 2011, , .		5
61	ReSSP: A 5.877 TOPS/W Reconfigurable Smart-camera Stream Processor. , 2011, , .		4
62	Design and implementation of cubic spline interpolation for spike sorting microsystems. , 2011, , .		7
63	On-line empirical mode decomposition biomedical microprocessor for Hilbert Huang transform. , 2011, , .		21
64	Smart display: A mobile self-adaptive projector-camera system. , 2011, , .		2
65	Hardware-Efficient Belief Propagation. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 525-537.	5.6	60
66	Trends in Design and Implementation of Signal Processing Systems [In the Spotlight]. IEEE Signal Processing Magazine, 2011, 28, 192-193.	4.6	3
67	P-45: A Quality Measurement Based on Object Formation for 3D Contents. Digest of Technical Papers SID International Symposium, 2011, 42, 1265-1268.	0.1	0
68	A real-time 1080p 2D-to-3D video conversion system. IEEE Transactions on Consumer Electronics, 2011, 57, 915-922.	3.0	35
69	Reconfigurable Morphological Image Processing Accelerator for Video Object Segmentation. Journal of Signal Processing Systems, 2011, 62, 77-96.	1.4	17
70	Analysis and Design of On-sensor ECG Processors for Realtime Detection of Cardiac Anomalies Including VF, VT, and PVC. Journal of Signal Processing Systems, 2011, 65, 275-285.	1.4	5
71	A real-time 1080p 2D-to-3D video conversion system. , 2011, , .		6
72	Algorithm and implementation of multi-channel spike sorting using GPU in a home-care surveillance system. , 2011, , .		3

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73	Perceptual multi-cues 2D-to-3D conversion system. , 2011, , .		1
74	Mobile energy expenditure tracking system based on heart rate and motion providing extra extensions for personalized care. , 2011, 2011, 5256-9.		0
75	Power estimation scheme for lowpower oriented biomedical SoC extended to very deep submicron technology. , 2011, , .		0
76	Seizure prediction based on classification of EEG synchronization patterns with on-line retraining and post-processing scheme. , 2011, 2011, 7564-9.		40
77	Six-dimensional free-viewpoint synthesis flow for QFHD free-viewpoint/multiview 3DTV applications. , 2011, , .		0
78	Cubic spline interpolation with overlapped window and data reuse for on-line Hilbert Huang transform biomedical microprocessor. , 2011, 2011, 7091-4.		6
79	Robust heart rate measurement with phonocardiogram by on-line template extraction and matching. , 2011, 2011, 1957-60.		8
80	An intelligent vision-based vehicle detection and tracking system for automotive applications. , 2011, , .		9
81	Density-based hardware-oriented classification for spike sorting microsystems. , 2011, , .		0
82	Algorithm and architecture design of a knowledge-based vehicle tracking for intelligent cruise control. , 2011, , .		0
83	Localized Detection of Abandoned Luggage. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	17
84	51.3: An Ultra-Low-Cost 2-D/3-D Video-Conversion System. Digest of Technical Papers SID International Symposium, 2010, 41, 766.	0.1	9
85	Architecture Design of Fine Grain Quality Scalable Encoder with CABAC for H.264/AVC Scalable Extension. Journal of Signal Processing Systems, 2010, 60, 363-375.	1.4	7
86	A 2D-to-3D conversion system using edge information. , 2010, , .		24
87	Video stabilization for vehicular applications using SURF-like descriptor and KD-tree. , 2010, , .		15
88	A 59.5mW scalable/multi-view video decoder chip for Quad/3D Full HDTV and video streaming applications. , 2010, , .		27
89	Learning-Based Vehicle Detection Using Up-Scaling Schemes and Predictive Frame Pipeline Structures. , 2010, , .		4
90	Feature-based video stabilization for vehicular applications. , 2010, , .		9

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91	Low bandwidth decoder framework for H.264/AVC scalable extension. , 2010, , .		2
92	Architecture design of stereo matching using belief propagation. , 2010, , .		10
93	Accuracy and power tradeoff in spike sorting microsystems with cubic spline interpolation. , 2010, , .		8
94	Low-cost hardware architecture design for 3D warping engine in multiview video applications. , 2010, , .		4
95	A multimedia semantic analysis SoC (SASoC) with machine-learning engine. , 2010, , .		14
96	An exploration of on-road vehicle detection using hierarchical scaling schemes. , 2010, , .		6
97	Sub-microwatt correlation integral processor for implantable closed-loop epileptic neuromodulator. , 2010, , .		4
98	Hybrid motion/depth-oriented inpainting for virtual view synthesis in multiview applications. , 2010, , .		22
99	Efficient message reduction algorithm for stereo matching using belief propagation. , 2010, , .		1
100	Analysis and design of on-sensor ECG processors for realtime detection of VF, VT, and PVC. , 2010, , .		7
101	A 212 MPixels/s 4096 $imes$ 2160p Multiview Video Encoder Chip for 3D/Quad Full HDTV Applications. IEEE Journal of Solid-State Circuits, 2010, 45, 46-58.	3.5	60
102	Tera-Scale Performance Machine Learning SoC (MLSoC) With Dual Stream Processor Architecture for Multimedia Content Analysis. IEEE Journal of Solid-State Circuits, 2010, , .	3.5	4
103	Video 2â€Dâ€”toâ€”3â€D conversion based on hybrid depth cueing. Journal of the Society for Information Display, 2010, 18, 704-716.	0.8	3
104	Video encoder design for high-definition 3D video communication systems. , 2010, 48, 76-86.		4
105	A novel 2Dd-to-3D conversion system using edge information. IEEE Transactions on Consumer Electronics, 2010, 56, 1739-1745.	3.0	84
106	A 0.077 to 0.168 nJ/bit/iteration scalable 3GPP LTE turbo decoder with an adaptive sub-block parallel scheme and an embedded DVFS engine. , 2010, , .		0
107	A novel hybrid pipeline design methodology on a multi-cores streaming system for multimedia applications. , 2010, , .		0
108	Hybrid color compensation for virtual view synthesis in multiview video applications. , 2010, , .		0

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109	System scheduling analysis for high definition multiview video encoder. , 2010, , .		0
110	Pyramid Architecture for 3840 X 2160 Quad Full High Definition 30 Frames/s Video Acquisition. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1499-1508.	5.6	11
111	1.4µW/channel 16-channel EEG/ECoG processor for smart brain sensor SoC. , 2010, , .		7
112	Video Compression. , 2010, , 103-121.		0
113	Cache-based integer motion/disparity estimation for quad-HD H.264/AVC and HD multiview video coding. , 2009, , .		15
114	Optimal Transform of Multichannel Evoked Neural Signals Using a Video Compression Algorithm. , 2009, , .		1
115	Mapping Scalable Video Coding decoder on multi-core stream processors. , 2009, , .		2
116	A block-based 2D-to-3D conversion system with bilateral filter. , 2009, , .		20
117	A 212MPixels/s 4096×2160p multiview video encoder chip for 3D/quad HDTV applications. , 2009, , .		3
118	128-channel spike sorting processor with a parallel-folding structure in 90nm process. , 2009, , .		16
119	Algorithm and architecture for object tracking using particle filter. , 2009, , .		5
120	Fast belief propagation process element for high-quality stereo estimation. , 2009, , .		8
121	Tera-scale performance machine learning SoC with dual stream processor architecture for multimedia content analysis. , 2009, , .		1
122	On-chip principal component analysis with a mean pre-estimation method for spike sorting. , 2009, , .		3
123	Bandwidth-efficient cache-based motion compensation architecture with DRAM-friendly data access control. , 2009, , .		12
124	Single iteration view interpolation for multiview video applications. , 2009, , .		10
125	Hybrid depth cueing for 2D-to-3D conversion system. Proceedings of SPIE, 2009, , .	0.8	8
126	Multimode Embedded Compression Codec Engine for Power-Aware Video Coding System. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 141-150.	5.6	54

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127	Pipelined arithmetic encoder design for lossless JPEG XR encoder. , 2009, , .		6
128	Multichannel evoked neural signal compression using advanced video compression algorithm. , 2009, , .		8
129	Hardware-efficient belief propagation. , 2009, , .		14
130	Single-iteration full-search fractional motion estimation for quad full HD H.264/AVC encoding. , 2009, , .		17
131	Algorithm and Architecture Design of Power-Oriented H.264/AVC Baseline Profile Encoder for Portable Devices. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1118-1128.	5.6	34
132	Intelligent image inpainting based on a brain-mimicking Recognition-Mining-Synthesis network. , 2009, , .		0
133	Tera-scale performance image stream processor with SoC architecture for multimedia content analysis. , 2009, , .		0
134	A branch selection multi-symbol high throughput CABAC decoder architecture for H.264/AVC. , 2009, , .		16
135	Plenary presentation B. , 2009, , .		1
136	iVisual: An Intelligent Visual Sensor SoC With 2790 fps CMOS Image Sensor and 205 GOPS/W Vision Processor. IEEE Journal of Solid-State Circuits, 2009, 44, 127-135.	3.5	37
137	11.4: A Qualityâ€Scalable Depthâ€Aware Video Processing System. Digest of Technical Papers SID International Symposium, 2009, 40, 123-126.	0.1	4
138	Hardware-efficient belief propagation. , 2009, , .		0
139	Data Reuse Exploration for Low Power Motion Estimation Architecture Design in H.264 Encoder. Journal of Signal Processing Systems, 2008, 50, 1-17.	1.4	8
140	Analysis and Hardware Architecture Design of Global Motion Estimation. Journal of Signal Processing Systems, 2008, 53, 285-300.	1.4	5
141	VLSI Architecture Design of Fractional Motion Estimation for H.264/AVC. Journal of Signal Processing Systems, 2008, 53, 335-347.	1.4	11
142	Multiview video hybrid coding system with texture-depth synthesis. , 2008, , .		0
143	An H.264/AVC scalable extension and high profile HDTV 1080p encoder chip. , 2008, , .		36
144	Architecture design of full HD JPEG XR encoder for digital photography applications. IEEE Transactions on Consumer Electronics, 2008, 54, 963-971.	3.0	18

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145	A Localized Approach to Abandoned Luggage Detection with Foreground-Mask Sampling. , 2008, , .		46
146	Efficient Architecture Design of Motion-Compensated Temporal Filtering/Motion Compensated Prediction Engine. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 98-109.	5.6	8
147	Frame-parallel design strategy for high definition B-frame H.264/AVC encoder. , 2008, , .		5
148	Content-Aware Prediction Algorithm With Inter-View Mode Decision for Multiview Video Coding. IEEE Transactions on Multimedia, 2008, 10, 1553-1564.	5.2	44
149	A 26mW 6.4GFLOPS multi-core stream processor for mobile multimedia applications. , 2008, , .		2
150	Architecture design of high performance embedded compression for high definition video coding. , 2008, , .		16
151	A cost effective reconfigurable memory for multimedia multithreading streaming architecture. , 2008, , .		0
152	A 100 MHz 1920×1080 HD-Photo 20 frames/sec JPEG XR encoder design. , 2008, , .		4
153	Bio-inspired unified model of visual segmentation system for CAPTCHA character recognition. , 2008, , .		2
154	iVisual: An Intelligent Visual Sensor SoC with 2790fps CMOS Image Sensor and 205GOPS/W Vision Processor. , 2008, , .		15
155	Priority depth fusion for the 2D to 3D conversion system. Proceedings of SPIE, 2008, , .	0.8	11
156	iVisual. , 2008, , .		9
157	Algorithm and architecture design of cache system for motion estimation in high definition H.264/AVC. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	5
158	Fast motion estimation with inter-view motion vector prediction for stereo and multiview video coding. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	20
159	Analysis of belief propagation for hardware realization. , 2008, , .		8
160	Spatial-temporal consistent labeling for multi-camera multi-object surveillance systems. , 2008, , .		1
161	A real-time augmented view synthesis system for transparent car pillars. , 2008, , .		0
162	Intelligent Content-Aware Model-Free Low Power Evoked Neural Signal Compression. Lecture Notes in Computer Science, 2008, , 898-901.	1.0	3

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163	H.264/AVC Video Codec Design A Hardwired Approach. Internet and Communications, 2008, , 169-212.	0.2	0
164	Novel Configurable Architecture of ML-Decomposed Binary Arithmetic Encoder for Multimedia Applications. , 2007, , .		7
165	Low Power Cache Algorithm and Architecture Design for Fast Motion Estimation in H.264/AVC Encoder System. , 2007, , .		16
166	System Bandwidth Analysis of Multiview Video Coding with Precedence Constraint. , 2007, , .		8
167	Depth Map Generation for 2D-to-3D Conversion by Short-Term Motion Assisted Color Segmentation. , 2007, , .		47
168	Bandwidth-Efficient Encoder Framework for H.264/AVC Scalable Extension. , 2007, , .		6
169	Computation-Free Motion Estimation with Inter-View Mode Decision for Multiview Video Coding. , 2007, , .		8
170	A Quality-of-Experience Video Adaptor for Serving Scalable Video Applications. IEEE Transactions on Consumer Electronics, 2007, 53, 1130-1137.	3.0	7
171	An 8.6mW 12.5Mvertices/s 800MOPS 8.91mm² Stream Processor Core for Mobile Graphics and Video Applications. , 2007, , .		6
172	Word-Level Parallel Architecture of JPEG 2000 Embedded Block Coding Decoder. IEEE Transactions on Multimedia, 2007, 9, 1103-1112.	5.2	2
173	Single Reference Frame Multiple Current Macroblocks Scheme for Multiple Reference Frame Motion Estimation in H.264/AVC. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 242-247.	5.6	21
174	Power-aware multimedia: concepts and design perspectives. IEEE Circuits and Systems Magazine, 2007, 7, 26-34.	2.6	50
175	Architecture Design of Fine Grain SNR Scalable Encoder with CABAC for H.264/AVC Scalable Extension. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	3
176	Reconfigurable architecture for video applications. , 2007, , .		0
177	System Architecture Design Methodology for H.264/AVC Encoder. , 2007, , .		3
178	Fast Algorithm and Architecture Design of Low-Power Integer Motion Estimation for H.264/AVC. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 568-577.	5.6	85
179	124 MSamples/s Pixel-Pipelined Motion-JPEG 2000 Codec Without Tile Memory. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 398-406.	5.6	6
180	2.8 to 67.2mW Low-Power and Power-Aware H.264 Encoder for Mobile Applications. , 2007, , .		28

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181	3D Video Applications and Intelligent Video Surveillance Camera and its VLSI Design. , 2007, , .		0
182	On-Chip Memory Optimization Scheme for VLSI Implementation of Line-Based Two-Dimentional Discrete Wavelet Transform. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 814-822.	5.6	20
183	Bandwidth-Efficient Encoder Framework for H.264/AVC Scalable Extension. , 2007, , .		0
184	Level C+ data reuse scheme for motion estimation with corresponding coding orders. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 553-558.	5.6	102
185	Scalable Rate-Distortion-Computation Hardware Accelerator for MCTF and ME. , 2006, , .		0
186	One-pass computation-aware motion estimation with adaptive search strategy. IEEE Transactions on Multimedia, 2006, 8, 698-706.	5.2	24
187	Joint Prediction Algorithm and Architecture for Stereo Video Hybrid Coding Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 1324-1337.	5.6	26
188	Design and Implementation of JPEG 2000 Codec with Bit-Plane Scalable Architecture. , 2006, , .		1
189	Relative Depth Layer Extraction for Monoscopic Video by Use of Multidimensional Filter. , 2006, , .		14
190	Precompression Quality-Control Algorithm for JPEG 2000. IEEE Transactions on Image Processing, 2006, 15, 3279-3293.	6.0	11
191	Power-Scalable Algorithm and Reconfigurable Macro-Block Pipelining Architecture of H.264 Encoder for Mobile Application. , 2006, , .		8
192	Analysis and complexity reduction of multiple reference frames motion estimation in H.264/AVC. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 507-522.	5.6	151
193	System Analysis of VLSI Architecture for 5/3 and 1/3 Motion-Compensated Temporal Filtering. IEEE Transactions on Signal Processing, 2006, 54, 4004-4014.	3.2	11
194	Memory Efficient JPEG 2000 Architecture With Stripe Pipeline Scheduling. IEEE Transactions on Signal Processing, 2006, 54, 4807-4816.	3.2	6
195	Analysis and architecture design of variable block-size motion estimation for H.264/AVC. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 578-593.	0.1	209
196	Analysis and architecture design of an HDTV720p 30 frames/s H.264/AVC encoder. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 673-688.	5.6	251
197	Platform-Based MPEG-4 SOC Design for Video Communications. Journal of Signal Processing Systems, 2006, 42, 7-19.	1.0	1
198	Hybrid Morphology Processing Unit Architecture for Moving Object Segmentation Systems. Journal of Signal Processing Systems, 2006, 42, 241-255.	1.0	6

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199	Survey on Block Matching Motion Estimation Algorithms and Architectures with New Results. Journal of Signal Processing Systems, 2006, 42, 297-320.	1.0	128
200	Interactive Content-aware Video Streaming System with Fine Granularity Scalability. Journal of Signal Processing Systems, 2006, 44, 117-134.	1.0	0
201	Algorithm analysis and architecture design for HDTV applications. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2006, 22, 22-31.	0.8	11
202	124Ms/s pixel-pipelined motion-JPEG 2000 codec without tile memory. , 2006, , .		4
203	Low Power Entropy Coding Hardware Design for H.264/AVC Baseline Profile Encoder. , 2006, , .		13
204	High-performance JPEG 2000 encoder with rate-distortion optimization. IEEE Transactions on Multimedia, 2006, 8, 645-653.	5.2	8
205	Real-Time Depth Image based Rendering Hardware Accelerator for Advanced Three Dimensional Television System. , 2006, , .		20
206	Block-based Vanishing Line and Vanishing Point Detection for 3D Scene Reconstruction. , 2006, , .		48
207	Multimedia IP Development. , 2006, , 19-72.		1
208	Dances with multimedia. , 2006, , .		0
209	VLSI Architecture for Lifting-Based Shape-Adaptive Discrete Wavelet Transform with Odd-Symmetric Filters. Journal of Signal Processing Systems, 2005, 40, 175-188.	1.0	3
210	VLSI Architecture for Forward Discrete Wavelet Transform Based on B-spline Factorization. Journal of Signal Processing Systems, 2005, 40, 343-353.	1.0	24
211	Reconfigurable Discrete Wavelet Transform Processor for Heterogeneous Reconfigurable Multimedia Systems. Journal of Signal Processing Systems, 2005, 41, 35-47.	1.0	14
212	An Efficient Embedded Bitstream Parsing Processor for MPEG-4 Video Decoding System. Journal of Signal Processing Systems, 2005, 41, 183-191.	1.0	8
213	Bandwidth optimized motion compensation hardware design for H.264/AVC HDTV decoder. , 2005, , .		35
214	Analysis and architecture for memory efficient JBIG2 arithmetic encoder. , 2005, , .		3
215	System analysis of VLSI architecture for motion-compensated temporal filtering. , 2005, , .		4
216	Video de-interlacing by adaptive 4-field global/local motion compensated approach. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 1569-1582.	5.6	55

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217	Advances in Hardware Architectures for Image and Video Coding - A Survey. Proceedings of the IEEE, 2005, 93, 184-197.	16.4	48
218	Area Efficient Architecture for the Embedded Block Coding in JPEG 2000. , 2005, , .		0
219	Hybrid-mode embedded compression for H.264/AVC video coding system. , 2005, , .		2
220	Algorithm and architecture optimization for full-mode encoding of H.264/AVC intra prediction. , 2005, , .		4
221	Parallel embedded block coding architecture for JPEG 2000. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 1086-1097.	5.6	34
222	Fast decomposition of filterbanks for the state-of-the-art audio coding. IEEE Signal Processing Letters, 2005, 12, 693-696.	2.1	7
223	720 Ã— 480 30fps Efficient Prediction Core Chip for Stereo Video Hybrid Coding System. , 2005, , .		0
224	Hardware oriented content-adaptive fast algorithm for variable block-size integer motion estimation in H.264. , 2005, , .		7
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