## The SP- and SI-frames design for H.264/AVC

IEEE Transactions on Circuits and Systems for Video Technolo 13, 637-644 DOI: 10.1109/tcsvt.2003.814969

**Citation Report** 

#	Article	IF	CITATIONS
1	Adopting SP/SI-Frames in Dual-Bitstream Video Streaming with VCR Support. , 0, , .		3
2	Overview of the H.264/AVC video coding standard. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 560-576.	8.3	5,916
3	H.264/AVC in wireless environments. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 657-673.	8.3	435
4	Search window size decision for motion estimation algorithm in H.264 video coder. , 0, , .		2
5	Video coding with H.264/AVC: tools, performance, and complexity. IEEE Circuits and Systems Magazine, 2004, 4, 7-28.	2.3	729
6	Random access for compressed light fields using multiple representations. , 0, , .		25
7	Increasing bandwidth utilization in next generation ipt $ extsf{v}$ networks. , 0, , .		17
8	Video streaming with SP and SI frames. , 2005, , .		14
9	Improved error resilient H.264 coding scheme using SP/SI macroblocks. , 2005, 5685, 1031.		0
10	Video Compression - From Concepts to the H.264/AVC Standard. Proceedings of the IEEE, 2005, 93, 18-31.	21.3	408
11	Rate-distortion optimized video peer-to-peer multicast streaming. , 2005, , .		52
12	S Frame Design for Multiple Description Video Coding. , 0, , .		4
13	A Robust H.264 Video Streaming Scheme for Portable Devices. , 0, , .		4
14	The Dynamics and Stability of Layered Congestion Control for Multimedia Streaming. , 0, , .		0
15	Enhanced Video Stream Switching Schemes for H.264. , 2005, , .		4
16	R-D Optimized Quantization of H.264 SP-Frames for Bistream Switching under Storage Constraints. , 0, , .		7
17	Rate-distortion optimized video streaming over Internet packet traces. , 2005, , .		5
18	H.264/AVC video for wireless transmission. IEEE Wireless Communications, 2005, 12, 6-13.	9.0	100

	CHAHON N	LPORT	
# 19	ARTICLE Multiple Description Coding for Video Delivery. Proceedings of the IEEE, 2005, 93, 57-70.	IF 21.3	Citations 347
20	Advances in Digital Video Content Protection. Proceedings of the IEEE, 2005, 93, 171-183.	21.3	164
21	A receiver-driven multicast framework for 3DTV transmission. , 0, , .		2
22	Optimized H. 264-Based Bitstream Switching for Wireless Video Streaming. , 0, , .		7
23	Solution for Hybrid Bandwidth Variation in Wireless Video Environments. , 0, , .		0
24	SP-Frame Selection for Video Streaming over Burst-loss Networks. , 0, , .		8
25	Embedded Wireless Video Surveillance System for Vehicle. , 2006, , .		5
26	Video Splicing and Fuzzy Rate Control in IP Multi-Protocol Encapsulator for Tune-In Time Reduction in IP Datacasting (IPDC) over DVB-H. , 2006, , .		6
27	Stream switching for 3GPP PSS compliant adaptive wireless video streaming. , 0, , .		3
28	H.264 search window size algorithm for fast and efficient video coding with single pixel precision and no background estimation for motion detection. , 0, , .		2
29	A Max-Min Fairness Congestion Control for Layered Streaming of Scalable Video. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 1074-1085.	8.3	5
30	Classification-Based System For Cross-Layer Optimized Wireless Video Transmission. IEEE Transactions on Multimedia, 2006, 8, 1082-1095.	7.2	39
31	Rate-distortion analysis and streaming of SP and SI frames. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 733-743.	8.3	26
32	Drift-free switching of compressed video bitstreams at predictive frames. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 565-576.	8.3	5
33	Video Encoding and Splicing for Tune-in Time Reduction in IP Datacasting (IPDC) Over DVB-H. , 2006, , .		11
34	Adaptive multimedia streaming over IP based on customer oriented metrics. , 0, , .		17
35	Seamless Bit-Stream Switching in Multirate-Based Video Streaming Systems. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	1
36	Robust System and Cross-Layer Design for H.264/AVC-Based Wireless Video Applications. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	4

#	Article	IF	CITATIONS
37	Optimized H.264/AVC-Based Bit Stream Switching for Mobile Video Streaming. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	14
38	Video compression with flexible playback order based on distributed source coding. , 2006, 6077, 254.		10
39	Spliced Video and Buffering Considerations for Tune-In Time Minimization in DVB-H for Mobile TV. , 2006, , .		4
40	Rate-distortion analysis of SP and SI frames. , 2006, 6077, 178.		5
41	Combining visual MPEG tools in the context of video adaptability. Signal Processing: Image Communication, 2006, 21, 156-168.	3.2	0
42	Error resiliency schemes in H.264/AVC standard. Journal of Visual Communication and Image Representation, 2006, 17, 425-450.	2.8	131
43	Network performance analysis of advanced video coding schemes. Journal of Visual Communication and Image Representation, 2006, 17, 467-489.	2.8	0
44	Optimized scalable video streaming over IEEE 802.11 a/e HCCA wireless networks under delay constraints. IEEE Transactions on Mobile Computing, 2006, 5, 755-768.	5.8	136
45	AVS-M: From Standards to Applications. Journal of Computer Science and Technology, 2006, 21, 332-344.	1.5	3
46	User-friendly H.264/AVC for remote browsing. , 2006, , .		4
47	Window Architecture for Deblocking Filter in H.264/AVC. , 2006, , .		4
48	Methods to Improve Coding Efficiency of SP Frames. , 2006, , .		7
49	Using SP-Frames for Error Resilience in Optimized Video Streaming. , 2006, , .		3
50	A New Seamless Bitstream Switching Scheme for H.264 Video Adaptation with Enhanced Coding Performance. , 2006, , .		3
51	Multiple Bitstream Switching for Video Streaming in Monotonically Decreasing Rate Schedulers. , 2006, , .		0
52	Seamless Switching in Multi-Rate Video Streaming Systems: A Wavelet-Based Scheme Versus the SP-Frame Scheme. , 2006, , .		0
53	Windows Processing for Deblocking Filter in H.264/AVC. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	1
54	Bit-Stream Switching in Multiple Bit-Rate Video Streaming using Wyner-Ziv Coding. , 2006, , .		6

IF ARTICLE CITATIONS # Video Streaming with H.264 Over the Internet., 2006,,. 55 2 Low-Latency Error Control of H.264 Using SP-Frames and Streaming Agent Over Wireless Networks. , 2007,,. 57 Efficient Video Stream Switching with Progressive S-Frames., 2007,,. 0 Flexible Video Decoding: A Distributed Source Coding Approach., 2007,,. A Fast Motion Estimation Algorithm Based on the Adaptive Reference Frame and the Spatial and 59 1 Temporal Correlations for H.264., 2007, , . Low-delay View Random Access for Multi-view Video Coding., 2007, , . System and Transport Interface of SVC. IEEE Transactions on Circuits and Systems for Video 61 8.3 74 Technology, 2007, 17, 1149-1163. m-Health e-Emergency Systems: Current Status and Future Directions - [Wireless corner]. IEEE 1.4 Antennas and Propagation Magazine, 2007, 49, 216-231. Time-interleaved simulcast and redundant intra picture insertion for reducing tune-in delay in DVB-H., 63 3 2007,,. Optimized Cross-Layer Design for Scalable Video Transmission Over the IEEE 802.11e Networks. IEEE 64 8.3 38 Transactions on Circuits and Systems for Video Technology, 2007, 17, 1665-1678. Optimal video coding for bit-rate switching applications: a game-theoretic approach., 2007,,. 65 0 Fast Bitstream Switching Algorithms for Real-Time Adaptive Video Multicasting. IEEE Transactions on Multimedia, 2007, 9, 169-175. Joint Source-Channel Video Transmission. Synthesis Lectures on Image, Video, and Multimedia 67 0.9 4 Processing, 2007, 3, 1-136. Tune-in Time Reduction in Video Streaming Over DVB-H. IEEE Transactions on Broadcasting, 2007, 53, 3.2 320-328. Improving Transmission Efficiency in H.264 Based IPTV Systems. IEEE Transactions on Broadcasting, 69 3.2 25 2007, 53, 69-78. Error-Resilient Coding and Decoding Strategies for Video Communication., 2007, , 13-58. An overview of scalable video streaming. Wireless Communications and Mobile Computing, 2007, 7, 71 1.2 40 159-172. Design of frame dependency for VCR streaming videos. Signal Processing: Image Communication, 2007, 3.2 22, 505-514.

#	Article	IF	CITATIONS
73	QoE estimation of compound services in significance-aware packet networks. Bell Labs Technical Journal, 2008, 13, 95-109.	0.7	2
74	Design options and comparison of in-network H.264/SVC adaptation. Journal of Visual Communication and Image Representation, 2008, 19, 529-542.	2.8	31
75	A benchmark for fast channel change in IPTV. , 2008, , .		7
76	Reducing IPTV channel switching time using H.264 scalable video coding. IEEE Transactions on Consumer Electronics, 2008, 54, 912-919.	3.6	34
77	Dynamic bitstream switching using progressive S-frames for scalable video transmission. IEEE Transactions on Consumer Electronics, 2008, 54, 1996-2002.	3.6	0
78	Optimizing channel change time in IPTV applications. , 2008, , .		30
79	Support for Digital VCR Functionality over Network for H.264/AVC. , 2008, , .		1
80	Robust Streaming of Offline Coded H.264/AVC Video Via Alternative Macroblock Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 425-438.	8.3	6
81	Wyner–Ziv Switching Scheme for Multiple Bit-Rate Video Streaming. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 569-581.	8.3	10
82	RDTC Optimized Compression of Image-Based Scene Representations (Part II): Practical Coding. IEEE Transactions on Image Processing, 2008, 17, 724-736.	9.8	10
83	The Emerging MVC Standard for 3D Video Services. Eurasip Journal on Advances in Signal Processing, 2008, 2009, .	1.7	147
84	Variable Time Scale Multimedia Streaming Over IP Networks. IEEE Transactions on Multimedia, 2008, 10, 1657-1670.	7.2	4
85	Affects of SP-Pictures on bitstream switching through monotonically decreasing rate schedulers for streaming of H.264/AVC coded video. , 2008, , .		0
86	Configurable VLSI Architecture for Deblocking Filter in H.264/AVC. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2008, 16, 1072-1082.	3.1	14
87	Markov model OF H.264 video sources performing bit-rate switching. , 2008, , .		3
88	Coding structure optimization for interactive multiview streaming in virtual world observation. , 2008, , .		16
89	Enhanced H.264/AVC stream switching over varying bandwidth networks. IEICE Electronics Express, 2008, 5, 827-832.	0.8	20
90	Wireless Video Streaming. , 2009, , 571-618.		0

#	Article	IF	CITATIONS
91	Research on the Motion Estimation Algorithm in the Multi-view Video Coding. , 2009, , .		1
92	Optimized frame structure using distributed source coding for interactive multiview video streaming. , 2009, , .		13
93	Wyner–Ziv-based bidirectionally decodable video coding. Journal of Visual Communication and Image Representation, 2009, 20, 365-376.	2.8	5
94	Analysis and Improvements of Zapping Times in IPTV Systems. IEEE Transactions on Broadcasting, 2009, 55, 407-418.	3.2	47
95	Distributed source coding techniques for interactive multiview video streaming. , 2009, , .		44
96	Generation of redundant frame structure for interactive multiview streaming. , 2009, , .		18
97	Background extraction and long-term memory motion-compensated prediction for spatial-random-access-enabled video coding. , 2009, , .		15
98	Real-time media processing in embedded consumer electronic devices. , 2009, , .		0
99	A new bitstream random access scheme using multipicture motion-compensated prediction. IEEE Transactions on Consumer Electronics, 2009, 55, 670-676.	3.6	0
100	On media data structures for interactive streaming in immersive applications. Proceedings of SPIE, 2010, , .	0.8	8
101	An adaptive peer-to-peer live streaming system with incentives for resilience. Computer Networks, 2010, 54, 1316-1327.	5.1	5
102	NNodeTree: A Scalable Peer-to-Peer Live Streaming Overlay Architecture for Next-Generation-Networks. Network Protocols and Algorithms, 2010, 1, .	1.0	7
103	Redundant representation for network video streaming using reconstructed P-frames and SP-frames. , 2010, , .		1
104	Rate-distortion based reconstruction optimization in distributed source coding for interactive multiview video streaming. , 2010, , .		3
105	New frame type for view access in MVC. , 2010, , .		1
106	A Multi-Level Adaptive Scheme for Multimedia Transmission over Wireless Channels. , 2010, , .		2
107	Quantized Transform-Domain Motion Estimation for SP-Frame Coding in Viewpoint Switching of Multiview Video. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 365-381.	8.3	9
108	Spatial-Random-Access-Enabled Video Coding for Interactive Virtual Pan/Tilt/Zoom Functionality. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 577-588.	8.3	14

	C	tation Report	
#	ARTICLE	IF	CITATIONS
109	Roadinap to Approaches for Carving of Fragmented Multimedia Files. , 2011, , .		10
110	Interactive Streaming of Stored Multiview Video Using Redundant Frame Structures. IEEE Transactions on Image Processing, 2011, 20, 744-761.	9.8	92
111	Efficient bitstream switching for streaming of H.264/AVC coded video. Eurasip Journal on Image and Video Processing, 2011, 2011, .	2.6	1
112	A New Dual-bitstream Video Streaming System with VCR Functionalities Using SP/SI-frames. Journal of Signal Processing Systems, 2011, 62, 403-414.	f 2.1	Ο
113	Channel adaptive video stream switching for broadband wireless links. Multimedia Systems, 2011, 17 449-463.	, 4.7	1
114	Reducing channel change delay in IPTV by predictive pre-joining of TV channels. Signal Processing: Image Communication, 2011, 26, 400-412.	3.2	26
115	Adaptive encoding of zoomable video streams based on user access pattern. , 2011, , .		16
116	Adaptive video stream switching for an IEEE 802.16 channel. , 2011, , .		Ο
117	Frame structure optimization for interactive multiview video streaming with bounded network delay. , 2011, , .		11
118	Optimizing frame structure for interactive multiview video streaming with viewsynthesis. , 2011, , .		3
119	Hybrid motion estimation algorithm for secondary SP-frame coding based on inter-frame correlation. Electronics Letters, 2011, 47, 439.	1.0	1
120	Optimizing frame structure with real-time computation for interactive multiview video streaming. , 2012, , .		0
123	A Dynamic Video Streaming Scheme Based on SP/SI Frames of H.264/AVC. , 2012, , .		0
124	Delay-Cognizant Interactive Streaming of Multiview Video With Free Viewpoint Synthesis. IEEE Transactions on Multimedia, 2012, 14, 1109-1126.	7.2	39
126	Optimal SP frame selection and bit budget allocation for mobile H.264 video streaming. Eurasip Journal on Image and Video Processing, 2012, 2012, .	2.6	0
127	Video Transmission over Networks. , 2012, , 529-573.		0
128	Hybrid motion estimation scheme for secondary SP-frame coding using inter-frame correlation and FMO. Signal Processing: Image Communication, 2012, 27, 1-15.	3.2	5
129	Adaptive encoding of zoomable video streams based on user access pattern. Signal Processing: Imag Communication, 2012, 27, 360-377.	e 3.2	12

#	Article	IF	CITATIONS
130	Peer-to-peer streaming in heterogeneous environments. Signal Processing: Image Communication, 2012, 27, 457-469.	3.2	3
131	An effective GM/LM-based video error concealment. Signal, Image and Video Processing, 2012, 6, 9-17.	2.7	5
132	Navigation Domain Representation For Interactive Multiview Imaging. IEEE Transactions on Image Processing, 2013, 22, 3459-3472.	9.8	11
133	Flexible stream switching based on HEVC. , 2013, , .		ο
134	Interactive Multiview Video System With Low Complexity 2D Look Around at Decoder. IEEE Transactions on Multimedia, 2013, 15, 1070-1082.	7.2	21
135	Joint source and sending rate modeling in adaptive video streaming. Signal Processing: Image Communication, 2013, 28, 403-416.	3.2	10
136	Rate-distortion optimized merge frame using piecewise constant functions. , 2013, , .		7
137	A new power saving algorithm for the transmission of compressed medical video stream. , 2013, , .		0
138	An adaptive unequal error protection based on motion energy of H.264/AVC video frames. , 2013, , .		5
139	Wireless Video Surveillance: A Survey. IEEE Access, 2013, 1, 646-660.	4.2	74
140	Classification and Recovery of Fragmented Multimedia Files using the File Carving Approach. International Journal of Mobile Computing and Multimedia Communications, 2013, 5, 50-67.	0.5	3
141	Multimedia Streaming. Academic Press Library in Signal Processing, 2014, 5, 327-381.	0.8	1
142	Coding Structure and Replication Optimization for Interactive Multiview Video Streaming. IEEE Transactions on Multimedia, 2014, 16, 1874-1887.	7.2	16
143	Novel CAVLC design for secondary SP-frame. , 2014, , .		0
144	Analytical model in discrete time for cross-layer video communication over LTE. Automatic Control and Computer Sciences, 2014, 48, 345-357.	0.8	2
145	A Survey on Quality of Experience of HTTP Adaptive Streaming. IEEE Communications Surveys and Tutorials, 2015, 17, 469-492.	39.4	617
146	Tiling in Interactive Panoramic Video: Approaches and Evaluation. IEEE Transactions on Multimedia, 2016, 18, 1819-1831.	7.2	132
147	Lossless Compression of JPEG Coded Photo Collections. IEEE Transactions on Image Processing, 2016, 25, 2684-2696.	9.8	45

#	Article	IF	Citations
148	Designing coding structures with merge frames for interactive multiview video streaming. , 2016, , .		1
149	Merge Frame Design for Video Stream Switching Using Piecewise Constant Functions. IEEE Transactions on Image Processing, 2016, 25, 3489-3504.	9.8	6
150	Adaptive robust video broadcast via satellite. Multimedia Tools and Applications, 2017, 76, 7785-7801.	3.9	4
151	Optimizing landmark insertions for interactive light field streaming. , 2017, , .		2
152	Optimized Data Representation for Interactive Multiview Navigation. IEEE Transactions on Multimedia, 2018, 20, 1595-1609.	7.2	12
153	Gaze-Aware Streaming Solutions for the Next Generation of Mobile VR Experiences. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 1535-1544.	4.4	43
154	Convolutional Neural Network for Intermediate View Enhancement in Multiview Streaming. IEEE Transactions on Multimedia, 2018, 20, 15-28.	7.2	12
155	Catalyst: A Cloud-based Media Processing Framework. , 2019, , .		1
156	Optimal Reference Selection for Random Access in Predictive Coding Schemes. IEEE Transactions on Communications, 2020, 68, 5819-5833.	7.8	0
157	Incremental Coding for Extractable Compression in the Context of Massive Random Access. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 251-260.	2.8	4
158	Fine Granularity Access in Interactive Compression of 360-Degree Images Based on Rate-adaptive Channel Codes. IEEE Transactions on Multimedia, 2021, 23, 2868-2882.	7.2	3
159	Keyframe Insertion: Enabling Low-Latency Random Access and Packet Loss Repair. Electronics (Switzerland), 2021, 10, 748.	3.1	9
160	Dynamic Light Field Compression Using Shared Fields and Region Blocks for Streaming Service. Lecture Notes in Computer Science, 2006, , 406-417.	1.3	1
161	A Quantized Transform-Domain Motion Estimation Technique for H.264 Secondary SP-Frames. , 2007, , 138-147.		1
162	Image and Video Processing in the Compressed Domain. , 0, , .		32
163	Source Coding Methods for Robust Wireless Video Streaming. , 2013, , 175-207.		4
164	Recommendations for Switching Frames in Mobile Video Streaming. , 2009, , .		1
165	Switching Frames for Constant Bit Rate Video Streams. , 2009, , .		1

ARTICLE IF CITATIONS # Comparison of Video Compression Standards. International Journal of Computer and Electrical 166 0.2 9 Engineering, 2013, , 549-554. MPEG video compression., 2004, , 230-352. 168 Topics on the Optimization of Transcoding Performance., 2004, , 131-163. 0 Extended Application of Scalable Video Coding Methods. Lecture Notes in Computer Science, 2005, , 359-366. Joint Error Concealment and Error Recovery for Consecutive Frame Losses under the Unbalanced 170 0 Multiple Description Coding Architecture., 2007, , . 171 Mechanisms for Adapting Compressed Multimedia to Varying Bandwidth Conditions., 2007, , 81-116. DescripciÃ<sup>3</sup>n del nuevo estÃ;ndar de video H.264 y comparaciÃ<sup>3</sup>n de su eficiencia de codificaciÃ<sup>3</sup>n con 172 0.1 2 otros estÃ;ndares. IngenierÃa InvestigaciÃ<sup>3</sup>n Y TecnologÃa, 2007, 8, 157-180. Switching Picture Added Scalable Video Coding and its Application for Video Streaming Adaptive to 0.1 Dynamic Network Bandwidth. Journal of Broadcast Engineering, 2008, 13, 119-127. 175 Video Coding Using the H.264/AVC Standard., 2009, , 435-460. 0 Video Streaming over DVB-H., 2009, , 109-131. Interactive Playout of Digital Video Streams., 2009, , 749-756. 177 0 Analysis of video streaming with SP and SI frames in UMTS mobile networks., 2009, , . 180 Color Processing. , 2011, , 161-194. 0 Innovations in Video Error Resilience and Concealment. Recent Patents on Signal Processing, 2011, 1, 0.1 116-134. Digital Video., 2012, , 199-231. 182 0 The Study of H. 264 Standard Key Technology and Analysis of Prospect. Advances in Intelligent and Soft Computing, 2012, , 49-54. Intra-Refresh Techniques for Mobile Video Streaming., 2013, 102-125. 0 184 Techniques and Tools for Adaptive Video Streaming., 2013, , 65-101.

		CITATION R	EPORT	
#	Article		IF	CITATIONS
188	Digital Video. , 2016, , 231-284.			0
189	Data Partitioning. Advances in Multimedia and Interactive Technologies Book Series, 2	016, , 118-158.	0.2	0
190	Multiple Description Coding for Multipath Video Streaming. Advances in Multimedia a Technologies Book Series, 2016, , 63-117.	nd Interactive	0.2	0
191	Redundant frame structure using M-frame for interactive light field streaming. , 2016,	, <b>.</b>		6
192	Multiple Description Coding for Multipath Video Streaming. , 2017, , 836-891.			0
193	Multiple Description Coding and its Relevance to 3DTV. , 2008, , 371-426.			0
194	SP Picture for Scalable Video Coding. , 2007, , 788-800.			0
195	Landmarking for Navigational Streaming of Stored High-Dimensional Media. IEEE Trans Circuits and Systems for Video Technology, 2022, 32, 5663-5679.	actions on	8.3	0
196	Joint Source-Channel Video Transmission. Synthesis Lectures on Image, Video, and Mu Processing, 2007, , .	ltimedia	0.9	4
197	Mixed-Resolution HESP for More Efficient Fast Channel Switching and Packet-Loss Rep	air. , 2022, , .		2
198	A study on keyframe injection in three generations of video coding standards for fast of switching and packet-loss repair. Multimedia Tools and Applications, 0, , .	hannel	3.9	1
199	P-Frame Injection for Efficient Packet-Loss Repair in Ultra-Low-Latency Video Streaming	g. , 2023, , .		0