

Pierre Duhamel

List of Publications by Year in descending order

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164
papers

6,716
citations

147726

31
h-index

76872

74
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164
all docs

164
docs citations

164
times ranked

3216
citing authors

#	ARTICLE	IF	CITATIONS
1	Blind robust image watermarking based on adaptive embedding strength and distribution of quantified coefficients. Expert Systems With Applications, 2022, 187, 115906.	4.4	16
2	Multi-Layer HARQ With Delayed Feedback. IEEE Transactions on Wireless Communications, 2020, 19, 6224-6237.	6.1	3
3	Transform Coefficient Coding for Screen Content in Versatile Video Coding (VVC). , 2019, , .		2
4	A Probabilistic HARQ Protocol for Demodulate-and-Forward Relaying Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1623-1636.	6.1	1
5	Intra Block-DPCM with Layer Separation of Screen Content in VVC. , 2019, , .		12
6	Short-Distance Intra Prediction of Screen Content in Versatile Video Coding (VVC). IEEE Signal Processing Letters, 2018, 25, 1690-1694.	2.1	12
7	Throughput-efficient Relay assisted Hybrid ARQ. , 2018, , .		1
8	Simplified analysis of HARQ cooperative networks using finite-state Markov chains. , 2017, , .		0
9	Finite-SNR analysis for partial relaying cooperation with channel coding and opportunistic relay selection. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.0	0
10	A probabilistic retransmission protocol on a relaying network. , 2017, , .		1
11	Distributed stochastic optimization in networks with low informational exchange. , 2017, , .		7
12	On joint power allocation and multipath routing in femto-relay networks. , 2016, , .		1
13	Semi-orthogonal MARC with half duplex relaying: A backward compatible cooperative network with interference channels. , 2016, , .		0
14	Rate Adaptation for Incremental Redundancy Secure HARQ. IEEE Transactions on Communications, 2016, 64, 765-777.	4.9	14
15	Performance Analysis of Network Coded Cooperation with Channel Coding and Adaptive DF-Based Relaying in Rayleigh Fading Channels. IEEE Signal Processing Letters, 2015, 22, 1354-1358.	2.1	13
16	On the Diversity of Network-Coded Cooperation With Decode-and-Forward Relay Selection. IEEE Transactions on Wireless Communications, 2015, 14, 4369-4378.	6.1	33
17	Improved time and frequency synchronization in presence of imperfect channel state information. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	1.5	1
18	Achievable Secrecy Rates for the Broadcast Channel with Confidential Message and Finite Constellation Inputs. IEEE Transactions on Communications, 2014, 1-1.	4.9	6

#	ARTICLE	IF	CITATIONS
19	The impact of finite-alphabet input on the secrecy-achievable rates for broadcast channel with confidential message. , 2014, , .		1
20	Reliable packet type estimation via joint protocol-channel decoding. , 2014, , .		0
21	Joint Source-Channel Coding and Decoding. , 2014, , 535-582.		0
22	Achievable Rate Regions for Two-Way Relay Channel Using Nested Lattice Coding. IEEE Transactions on Wireless Communications, 2014, 13, 5607-5620.	6.1	14
23	Multiple-access relaying with network coding: iterative network/channel decoding with imperfect CSI. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	5
24	Rate Allocation and Adaptation for Incremental Redundancy Truncated HARQ. IEEE Transactions on Communications, 2013, 61, 2580-2590.	4.9	87
25	Performance analysis of relay networks with channel code in low SNR regime. , 2013, , .		2
26	Finite dimension Wyner-Ziv lattice coding for two-way relay channel. , 2013, , .		0
27	BER analysis of Joint Network/Channel decoding in block Rayleigh fading channels. , 2013, , .		5
28	Coding, diversity and ARQ in fading channels: A case-study performance comparison. , 2013, , .		0
29	Lattice-based Wyner-Ziv coding for parallel Gaussian two-way relay channels. , 2013, , .		0
30	Improved time synchronization in presence of imperfect channel state information. , 2013, , .		2
31	Power Extrinsic Propagation for Turbo-Codes. IEEE Transactions on Signal Processing, 2013, 61, 1107-1111.	3.2	0
32	Achievable rates optimization for broadcast channels using finite size constellations under transmission constraints. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	1.5	7
33	Wyner-Ziv lattice coding for two-way relay channel. , 2012, , .		4
34	Joint Protocol-Channel Decoding for Robust Frame Synchronization. IEEE Transactions on Communications, 2012, 60, 2326-2335.	4.9	5
35	Multi-hop, multi-route power minimisation in ad hoc network. , 2012, , .		1
36	Improved receiver for cooperative wireless communication systems using QAM and Galois Field network coding. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Performance of network coding enabled diversity relay networks. , 2012, , .		0
38	Enhanced time synchronization in IEEE 802.11a system using SIGNAL field and MAP channel estimation. , 2012, , .		3
39	Challenging issues in multimedia transmission over wireless networks based on network coding. , 2012, , .		2
40	Protocol-Assisted Channel Decoding. IEEE Signal Processing Letters, 2012, 19, 483-486.	2.1	5
41	Robust Transmission of Compressed HTML Files over Wireless Channel using an Iterative Joint Source-Channel Decoding Receiver. IEEE Transactions on Communications, 2012, 60, 2679-2688.	4.9	4
42	Iterative network/channel decoding for the noisy multiple-access relay channel (MARC). , 2012, , .		3
43	Optimization of Unicast Services Transmission for Broadcast Channels in Practical Situations. Bell Labs Technical Journal, 2012, 17, 5-23.	0.7	2
44	Adaptive Incremental Redundancy for HARQ Transmission with Outdated CSI. , 2011, , .		11
45	Physical network coding for TWR channel: Capacity region and error exponents. , 2011, , .		1
46	Optimal and low-complexity iterative joint network/channel decoding for the multiple-access relay channel. , 2011, , .		5
47	Sliding-Trellis Based Frame Synchronization. , 2011, , .		0
48	Robust MAC-lite and soft header recovery for packetized multimedia transmission. IEEE Transactions on Communications, 2010, 58, 775-784.	4.9	19
49	On rate and BER analysis for finite-dimensional lattice coding for the dirty paper channel. AEU - International Journal of Electronics and Communications, 2010, 64, 450-464.	1.7	0
50	Frame Synchronization based on robust header recovery and Bayesian testing. , 2010, , .		3
51	A set of template matching predictors for intra video coding. , 2010, , .		11
52	A turbo iteration algorithm in 16QAM hierarchical modulation. , 2010, , .		3
53	Robust critical data recovery for MPEG-4 AAC encoded bitstreams. , 2010, , .		4
54	Joint Exploitation of Residual Source Information and MAC Layer CRC Redundancy for Robust Video Decoding. IEEE Transactions on Wireless Communications, 2010, 9, 2165-2175.	6.1	6

#	ARTICLE	IF	CITATIONS
55	Robust Wireless Network Coding " An Overview. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 685-698.	0.2	8
56	Geometrical interpretation and improvements of the Blahut-Arimoto's algorithm. , 2009, , .		4
57	Outage Behavior of Discrete Memoryless Channels Under Channel Estimation Errors. IEEE Transactions on Information Theory, 2009, 55, 4221-4239.	1.5	15
58	A multicode approach for high data rate UWB system design. IEEE Transactions on Communications, 2009, 57, 553-561.	4.9	2
59	Iterative joint source-channel decoding of VLC exploiting source semantics over realistic radio-mobile channels. IEEE Transactions on Communications, 2009, 57, 1701-1711.	4.9	3
60	Improved sequential MAP estimation of CABAC encoded data with objective adjustment of the complexity/efficiency tradeoff. IEEE Transactions on Communications, 2009, 57, 2014-2023.	4.9	11
61	On the Outage Capacity of a Practical Decoder Accounting for Channel Estimation Inaccuracies. IEEE Transactions on Communications, 2009, 57, 1341-1350.	4.9	9
62	Wavelet-Based Semiblind Channel Estimation for Ultrawideband OFDM Systems. IEEE Transactions on Vehicular Technology, 2009, 58, 1302-1314.	3.9	24
63	Improved Iterative MIMO Signal Detection Accounting for Channel-Estimation Errors. IEEE Transactions on Vehicular Technology, 2009, 58, 3154-3167.	3.9	16
64	Joint protocol-channel decoding for robust aggregated packet recovery at wimax MAC layer. , 2009, , .		7
65	Robust transmission of 802.11n physical packet headers. , 2009, , .		1
66	Wideband, Bandpass, and Versatile Hybrid Filter Bank A/D Conversion for Software Radio. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 1772-1782.	3.5	43
67	A distributed algorithm for instantaneous allocation of discrete resources in heterogeneous networks. , 2009, , .		0
68	Multiresolution Analysis Adapted to Irregularly Spaced Data. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	0
69	Ultra wideband OFDM channel estimation through a wavelet based EM"MAP algorithm. European Transactions on Telecommunications, 2008, 19, 761-771.	1.2	6
70	On the use of cascade structure to correct impulsive noise in multicarrier systems. IEEE Transactions on Communications, 2008, 56, 1844-1858.	4.9	6
71	Scalar DC"QIM for Semifragile Authentication. IEEE Transactions on Information Forensics and Security, 2008, 3, 776-782.	4.5	6
72	Subband Architecture for Hybrid Filter Bank A/D Converters. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 191-201.	7.3	38

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73	Improved iterative detection and achieved throughputs of OFDM systems under imperfect channel estimation. IEEE Transactions on Wireless Communications, 2008, 7, 5039-5050.	6.1	25
74	Hyperspectral Image Compression: Adapting SPIHT and EZW to Anisotropic 3-D Wavelet Coding. IEEE Transactions on Image Processing, 2008, 17, 2334-2346.	6.0	104
75	Robust header recovery based enhanced permeable protocol layer mechanism. , 2008, , .		8
76	Robust MAC-Lite and Header Recovery Based Improved Permeable Protocol Layer Scheme. , 2008, , .		0
77	Parity-Check Matrix Calculation for Paraunitary Oversampled DFT Filter Banks. IEEE Transactions on Signal Processing, 2008, 56, 5277-5283.	3.2	6
78	Robust transmission of html files : Iterative joint source-channel decoding of Lempel Ziv-77 codes. , 2008, , .		2
79	Rateless coding for quasi-static fading channels using channel estimation accuracy. , 2008, , .		10
80	Efficient memory data organization for fast still image decoding implementation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
81	Improved retransmission scheme for video communication systems. , 2008, , .		1
82	An Efficient Low Bit-Rate Information Embedding Costa Based Scheme using a Perceptual Model. , 2007, , .		0
83	On the Capacity of the Fading MIMO Broadcast Channel Without Channel Information at the Transmitter and Imperfect Estimation at the Receivers. , 2007, , .		4
84	Signed Binary Digit Representation to Simplify 3D-EZW. , 2007, , .		1
85	Broadcast- and MAC-Aware Coding Strategies for Multiple User Information Embedding. IEEE Transactions on Signal Processing, 2007, 55, 2974-2992.	3.2	11
86	Robust Video Decoding through Simultaneous Usage of Residual Source Information and MAC Layer CRC Redundancy. , 2007, , .		5
87	Joint Source-Channel Coding Using Real BCH Codes for Robust Image Transmission. IEEE Transactions on Image Processing, 2007, 16, 1568-1583.	6.0	42
88	On the Outage Capacity of a Practical Decoder Using Channel Estimation Accuracy. , 2007, , .		7
89	Adaptation of Zerotrees Using Signed Binary Digit Representations for 3D Image Coding. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-7.	1.7	3
90	MIMO-OFDM optimal decoding and achievable information rates under imperfect channel estimation. , 2007, , .		7

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91	Evaluation of Cross-Layer Reliability Mechanisms for Satellite Digital Multimedia Broadcast. IEEE Transactions on Broadcasting, 2007, 53, 391-404.	2.5	10
92	On Blind Equalization of Biorthogonal Signaling. IEEE Transactions on Signal Processing, 2007, 55, 1421-1435.	3.2	1
93	Decision-Feedback Equalization for Pulse-Position Modulation. IEEE Transactions on Signal Processing, 2007, 55, 5361-5369.	3.2	6
94	A Necessary Condition on the Location of Pilot Tones for Maximizing the Correction Capacity in OFDM Systems. IEEE Transactions on Communications, 2007, 55, 356-366.	4.9	12
95	Performance Analysis of Scalar DC-QIM for Zero-Bit Watermarking. IEEE Transactions on Information Forensics and Security, 2007, 2, 283-289.	4.5	12
96	Adaptation of Zerotrees Using Signed Binary Digit Representations for 3D Image Coding. Eurasip Journal on Image and Video Processing, 2007, 2007, 054679.	1.7	3
97	Robust Decoding of H.264 Encoded Video Transmitted over Wireless Channels. , 2006, , .		20
98	Estimation-Induced Outage Capacity of Ricean Channels. , 2006, , .		6
99	Audio watermarking under desynchronization and additive noise attacks. IEEE Transactions on Signal Processing, 2006, 54, 570-584.	3.2	26
100	Blind identification/equalization using deterministic maximum likelihood and a partial prior on the input. IEEE Transactions on Signal Processing, 2006, 54, 724-737.	3.2	12
101	A pseudorandom postfix OFDM modulator - semi-blind channel estimation and equalization. IEEE Transactions on Signal Processing, 2006, 54, 1005-1017.	3.2	57
102	Improving sequential decoding of CABAC encoded data via objective adjustment of the complexity-efficiency trade-off. , 2006, , .		0
103	Rotation/scale insensitive spread spectrum image watermarking game. , 2006, , .		0
104	Optimal detector for an additive watermarking scheme based on human auditory system. , 2006, 6072, 759.		0
105	A new quantization optimization algorithm for the MPEG advanced audio coder using a statistical subband model of the quantization noise. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 1328-1339.	3.8	4
106	Simplification of VLC tables with application to ML and MAP decoding algorithms. IEEE Transactions on Communications, 2006, 54, 1835-1844.	4.9	8
107	On Channel Sensitivity to Partially Known Two-sided State Information. , 2006, , .		2
108	Compactly Supported Non-Uniform Spline Wavelet for Irregularly Sub-Sampled Image Representation. , 2006, , .		1

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109	Asymptotically Optimal Scalar Quantizers for QIM Watermark Detection. , 2006, , .		5
110	Multiband OFDM UWB Channel Estimation Via a Wavelet Based EM-MAP Algorithm. , 2006, , .		0
111	Spread-Spectrum Substitution watermarking Game. , 2006, , .		3
112	Achievable Outage Rates with Improved Decoding of BICM Multiband OFDM under Channel Estimation Errors. , 2006, , .		4
113	Controlled Complexity Map Decoding of CABAC Encoded Data. , 2006, , .		1
114	Time jitter versus additive noise in a game theory context. , 2005, , .		0
115	Impulsive Noise Cancellation in Multicarrier Transmission. IEEE Transactions on Communications, 2005, 53, 94-106.	4.9	83
116	Robust Source Decoding of Variable-Length Encoded Video Data Taking Into Account Source Constraints. IEEE Transactions on Communications, 2005, 53, 1077-1084.	4.9	12
117	Oversampled filter banks as error correcting codes: theory and impulse noise correction. IEEE Transactions on Signal Processing, 2005, 53, 4619-4630.	3.2	47
118	Guest Editorial: Supplement on Secure Media. IEEE Transactions on Signal Processing, 2004, 52, 2954-2954.	3.2	0
119	Orthogonalization of OFDM/OQAM pulse shaping filters using the discrete Zak transform. Signal Processing, 2003, 83, 1379-1391.	2.1	44
120	An asymmetric watermarking method. IEEE Transactions on Signal Processing, 2003, 51, 981-995.	3.2	51
121	<title>Applied public-key steganography</title>. , 2002, , .		32
122	Statistical model for the quantization noise in the MPEG Advanced Audio Coder. Application to the bit allocation algorithm. , 2002, , .		1
123	Adaptive solution for blind identification/equalization using deterministic maximum likelihood. IEEE Transactions on Signal Processing, 2002, 50, 923-936.	3.2	21
124	Subspace-based blind and semi-blind channel estimation for OFDM systems. IEEE Transactions on Signal Processing, 2002, 50, 1699-1712.	3.2	259
125	Turbo demodulation of zero-padded OFDM transmissions. IEEE Transactions on Communications, 2002, 50, 1725-1728.	4.9	17
126	Cyclic prefixing or zero padding for wireless multicarrier transmissions?. IEEE Transactions on Communications, 2002, 50, 2136-2148.	4.9	663

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127	Blind identification of multipath channels: a parametric subspace approach. IEEE Transactions on Signal Processing, 2001, 49, 1468-1480.	3.2	26
128	A subspace-based approach to blind channel identification in pulse shaping OFDM/OQAM systems. IEEE Transactions on Signal Processing, 2001, 49, 1594-1598.	3.2	50
129	<title>Unified approach of asymmetric watermarking schemes</title>. , 2001, , .		31
130	Nonredundant representation of images allowing object-based and multiresolution scalable coding. , 2000, 4067, 598.		0
131	Unbiased blind adaptive channel identification and equalization. IEEE Transactions on Signal Processing, 2000, 48, 148-158.	3.2	29
132	A blind decision feedback equalizer incorporating fixed lag smoothing. IEEE Transactions on Signal Processing, 2000, 48, 1315-1328.	3.2	6
133	An Asymmetric Public Detection Watermarking Technique. Lecture Notes in Computer Science, 2000, , 88-100.	1.0	38
134	Multi-channel high resolution blind image restoration. , 1999, , .		11
135	A parametric blind subspace identification: robustness issue. IEEE Communications Letters, 1999, 3, 320-322.	2.5	8
136	Orthogonal transmultiplexers in communication: a review. IEEE Transactions on Signal Processing, 1998, 46, 979-995.	3.2	196
137	Adaptive filtering in subbands using a weighted criterion. IEEE Transactions on Signal Processing, 1998, 46, 2359-2371.	3.2	91
138	Image coding with an $L/\sup \hat{z}$ norm and confidence interval criteria. IEEE Transactions on Image Processing, 1998, 7, 621-631.	6.0	27
139	Perfect reconstruction versus MMSE filter banks in source coding. IEEE Transactions on Signal Processing, 1997, 45, 2188-2202.	3.2	31
140	On-line blind multichannel equalization based on mutually referenced filters. IEEE Transactions on Signal Processing, 1997, 45, 2307-2317.	3.2	94
141	Efficient Implementation Methodology of Fast FIR Filtering Algorithms on DSP. Journal of Signal Processing Systems, 1997, 16, 81-103.	1.0	6
142	A least mean squares blind equalization techniques for OFDM systems. Annales Des Telecommunications/Annals of Telecommunications, 1997, 52, 12.	1.6	1
143	A multichannel affine projection algorithm with applications to multichannel acoustic echo cancellation. IEEE Signal Processing Letters, 1996, 3, 35-37.	2.1	58
144	Subspace methods for the blind identification of multichannel FIR filters. IEEE Transactions on Signal Processing, 1995, 43, 516-525.	3.2	1,334

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145	A set of algorithms linking NLMS and block RLS algorithms. IEEE Transactions on Signal Processing, 1995, 43, 444-453.	3.2	59
146	Fast algorithms for discrete and continuous wavelet transforms. IEEE Transactions on Information Theory, 1992, 38, 569-586.	1.5	523
147	On the methods for solving Yule-Walker equations. IEEE Transactions on Signal Processing, 1992, 40, 2987-3000.	3.2	18
148	Short-length FIR filters and their use in fast nonrecursive filtering. IEEE Transactions on Signal Processing, 1991, 39, 1322-1332.	3.2	115
149	A connection between bit reversal and matrix transposition: hardware and software consequences. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1990, 38, 1893-1896.	2.0	4
150	An improved Burg-type recursive lattice method for autoregressive spectral analysis. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1990, 38, 1437-1445.	2.0	1
151	Algorithms meeting the lower bounds on the multiplicative complexity of length- $2^{\lceil \log_2 n \rceil}$ DFTs and their connection with practical algorithms. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1990, 38, 1504-1511.	2.0	41
152	Fast fourier transforms: A tutorial review and a state of the art. Signal Processing, 1990, 19, 259-299.	2.1	754
153	Split-radix algorithms for length- $p^{\lceil \log_2 m \rceil}$ DFT's. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1989, 37, 57-64.	2.0	43
154	On discrete Fourier transforms (number-theoretic transforms) with minimum number of rotations (shifts). Signal Processing, 1988, 14, 237-241.	2.1	2
155	On computing the inverse DFT. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1988, 36, 285-286.	2.0	28
156	In-place butterfly-style FFT of 2-D real sequences. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1988, 36, 1642-1650.	2.0	31
157	Improved Fourier and Hartley transform algorithms: Application to cyclic convolution of real data. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1987, 35, 818-824.	2.0	118
158	Fast FIR filtering: Algorithms and implementations. Signal Processing, 1987, 13, 377-384.	2.1	63
159	Implementation of "Split-radix" FFT algorithms for complex, real, and real-symmetric data. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1986, 34, 285-295.	2.0	226
160	Un algorithme de transformation de Fourier rapide à double base. Annales Des Telecommunications/Annals of Telecommunications, 1985, 40, 481-494.	1.6	5
161	The multibridge charge routing filter. IEEE Transactions on Circuits and Systems, 1985, 32, 20-27.	0.9	4
162	Split radix FFT algorithm. Electronics Letters, 1984, 20, 14.	0.5	335

#	ARTICLE	IF	CITATIONS
163	Filtre intÃ©grÃ© Ã transferts rÃ©cursifs. Annales Des Telecommunications/Annals of Telecommunications, 1982, 37, 47-62.	1.6	0
164	Automatic test generation techniques for analog circuits and systems: A review. IEEE Transactions on Circuits and Systems, 1979, 26, 411-440.	0.9	113