

Benoît Champagne

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2405282/benoit-champagne-publications-by-year.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135
papers

1,415
citations

19
h-index

31
g-index

177
ext. papers

1,799
ext. citations

4.5
avg, IF

5.44
L-index

#	Paper	IF	Citations
135	Channel Estimation for Hybrid Massive MIMO Systems with Adaptive-Resolution ADCs. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	1
134	Joint Parameter and Time-Delay Estimation for a Class of Nonlinear Time-Series Models. <i>IEEE Signal Processing Letters</i> , 2022 , 1-1	3.2	4
133	Uncertainty Estimation via Monte Carlo Dropout in CNN-based mmWave MIMO Localization. <i>IEEE Signal Processing Letters</i> , 2021 , 1-1	3.2	3
132	PACDNN: A phase-aware composite deep neural network for speech enhancement. <i>Speech Communication</i> , 2021 ,	2.8	3
131	Secure Beamforming for Cognitive Satellite Terrestrial Networks With Unknown Eavesdroppers. <i>IEEE Systems Journal</i> , 2021 , 15, 2186-2189	4.3	45
130	Secure and Energy Efficient Transmission for RSMA-Based Cognitive Satellite-Terrestrial Networks. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 251-255	5.9	72
129	Speech Enhancement With Phase Sensitive Mask Estimation Using a Novel Hybrid Neural Network. <i>IEEE Open Journal of Signal Processing</i> , 2021 , 2, 136-150	1.2	1
128	A Green Downlink Power Allocation Scheme for Cell-Free Massive MIMO Systems. <i>IEEE Access</i> , 2021 , 9, 6498-6512	3.5	3
127	A Distributed Pulse-Based Synchronization Protocol for Half-Duplex D2D Communications. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 245-261	6.7	1
126	Secrecy-Energy Efficient Hybrid Beamforming for Satellite-Terrestrial Integrated Networks. <i>IEEE Transactions on Communications</i> , 2021 , 69, 6345-6360	6.9	27
125	DNN-Based Calibrated-Filter Models for Speech Enhancement. <i>Circuits, Systems, and Signal Processing</i> , 2021 , 40, 2926-2949	2.2	1
124	Energy-Efficient User Clustering and Downlink Beamforming for MIMO-SCMA in C-RAN. <i>IEEE Access</i> , 2021 , 9, 115175-115191	3.5	1
123	Robust Hybrid Beamforming for Satellite-Terrestrial Integrated Networks 2020 ,		2
122	Achieving Fully-Digital Performance by Hybrid Analog/Digital Beamforming in Wide-Band Massive-Mimo Systems 2020 ,		1
121	. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 2086-2103	14.2	18
120	Energy-Efficient Group-Sparse Transceiver Design for Multiuser MIMO Relaying in C-RAN. <i>IEEE Transactions on Green Communications and Networking</i> , 2020 , 4, 703-716	4	0
119	A Novel Cooperative HARQ Protocol for Free-Space Optical Broadcasting Systems. <i>Journal of Lightwave Technology</i> , 2020 , 38, 1789-1799	4	7

118	Improving Caching Efficiency in Content-Aware C-RAN-Based Cooperative Beamforming: A Joint Design Approach. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 4125-4140	9.6	6
117	. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 2246-2262	6.8	19
116	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 2452-2468	10.7	24
115	Generalized Framework for Hybrid Analog/Digital Signal Processing in Massive and Ultra-Massive-MIMO Systems. <i>IEEE Access</i> , 2020 , 8, 100262-100279	3.5	2
114	Secure Hybrid A/D Beamforming for Hardware-Efficient Large-Scale Multiple-Antenna SWIPT Systems. <i>IEEE Transactions on Communications</i> , 2020 , 68, 6141-6156	6.9	3
113	Padded Coprime Arrays for Improved DOA Estimation: Exploiting Hole Representation and Filling Strategies. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 4597-4611	4.8	23
112	A hybrid speech enhancement system with DNN based speech reconstruction and Kalman filtering. <i>Multimedia Tools and Applications</i> , 2020 , 79, 32643-32663	2.5	1
111	Speech Separation Using a Composite Model for Complex Mask Estimation 2020 ,		1
110	Robust Joint Hybrid Transceiver Design for Millimeter Wave Full-Duplex MIMO Relay Systems. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 1199-1215	9.6	44
109	Design Criteria for Omnidirectional STBC in Massive MIMO Systems. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 1435-1439	5.9	8
108	Self-regularized nonlinear diffusion algorithm based on levenberg gradient descent. <i>Signal Processing</i> , 2019 , 163, 107-114	4.4	8
107	A Deep Neural Network Based Kalman Filter for Time Domain Speech Enhancement 2019 ,		7
106	A Fully Convolutional Neural Network for Complex Spectrogram Processing in Speech Enhancement 2019 ,		11
105	Dynamic Resource Allocation for LTE-Based Vehicle-to-Infrastructure Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 5017-5030	6.8	9
104	Joint Content Placement, RRH Clustering and Beamforming for Cache-Enabled Cloud-RAN 2019 ,		4
103	NOMA-based cooperative relaying for secondary transmission in cognitive radio networks. <i>IET Communications</i> , 2019 , 13, 1840-1851	1.3	8
102	Recurrent Neural Network-Based Dictionary Learning for Compressive Speech Sensing. <i>Circuits, Systems, and Signal Processing</i> , 2019 , 38, 3616-3643	2.2	1
101	Optimizing Transmission Rate in NOMA via Block Diagonalization Beamforming and Power Allocation 2019 ,		4

100	Fully Distributed Energy-Efficient Synchronization for Half-duplex D2D Communications 2019 ,		3
99	Covariance-free non-homogeneity STAP detector in compound Gaussian clutter based on robust statistics. <i>IET Radar, Sonar and Navigation</i> , 2019 , 13, 2107-2119	1.4	2
98	. <i>IEEE Access</i> , 2019 , 7, 167639-167652	3.5	1
97	. <i>IEEE Journal on Selected Areas in Communications</i> , 2018 , 36, 1410-1425	14.2	19
96	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2018 , 12, 313-325	7.5	18
95	A novel approach for ellipsoidal outer-approximation of the intersection region of ellipses in the plane. <i>Computational Optimization and Applications</i> , 2018 , 69, 383-402	1.4	
94	Tracking Performance and Optimal Adaptation Step-Sizes of Diffusion-LMS Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 67-78	4	12
93	Distributed Nonlinear System Identification in α -Stable Noise. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 979-983	3.2	15
92	Joint frequency offset, time offset, and channel estimation for OFDM/OQAM systems. <i>Eurasip Journal on Advances in Signal Processing</i> , 2018 , 2018, 4	1.9	4
91	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 3160-3168	3.7	4
90	Efficient Group-Sparse Transceiver Design for Multiuser MIMO Relaying in C-RAN 2018 ,		1
89	Fast Converging Distributed Pulse-coupled Clock Synchronization for Half-duplex D2D Communications over Multipath Channels 2018 ,		3
88	NOISE-ADAPTIVE DEEP NEURAL NETWORK FOR SINGLE-CHANNEL SPEECH ENHANCEMENT 2018 ,		2
87	NMF-based speech enhancement using multitaper spectrum estimation 2018 ,		1
86	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 7913-7924	6.8	6
85	Non-linear transceiver design for secure communications with artificial noise-assisted MIMO relay. <i>IET Communications</i> , 2017 , 11, 930-935	1.3	2
84	Realizing Fully Digital Precoders in Hybrid A/D Architecture With Minimum Number of RF Chains. <i>IEEE Communications Letters</i> , 2017 , 21, 2310-2313	3.8	8
83	Joint Transceiver Design for Secure Downlink Communications Over an Amplify-and-Forward MIMO Relay. <i>IEEE Transactions on Communications</i> , 2017 , 65, 3691-3704	6.9	20

82	Joint Transceiver Designs for Full-Duplex $\mathbb{K}\mathbb{K}$ -Pair MIMO Interference Channel With SWIPT. <i>IEEE Transactions on Communications</i> , 2017 , 65, 890-905	6.9	22
81	SIC aided physical-layer network coding for multi-way relay channels 2017 ,		1
80	On the use of distributed synchronization in 5G device-to-device networks 2017 ,		4
79	Nonlinear MIMO Transceivers Improve Wireless-Powered and Self-Interference-Aided Relaying. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 6953-6966	9.6	9
78	. <i>IEEE Journal on Selected Areas in Communications</i> , 2017 , 35, 2085-2096	14.2	32
77	A Weighted Combining Algorithm for Spatial Multiplexing MIMO DF Relaying Systems. <i>IEEE Transactions on Communications</i> , 2017 , 65, 4751-4764	6.9	0
76	Joint design of beam selection and precoding for mmWave MU-MIMO systems with lens antenna array 2017 ,		3
75	Steady-state analysis of the maximum correntropy Volterra filter with application to nonlinear channel equalization 2017 ,		1
74	UFMC-based wideband spectrum sensing for cognitive radio systems in non-Gaussian noise 2017 ,		1
73	SecurityReliability Tradeoff Analysis of Multirelay-Aided Decode-and-Forward Cooperation Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 5825-5831	6.8	36
72	Joint transceiver designs for secure communications over MIMO relay 2016 ,		2
71	Basis compensation in non-negative matrix factorization model for speech enhancement 2016 ,		1
70	Low-complexity factor-graph-based MAP detector for filter bank multicarrier systems. <i>Journal of Communications and Information Networks</i> , 2016 , 1, 10-22		0
69	Discriminative Training of NMF Model Based on Class Probabilities for Speech Enhancement. <i>IEEE Signal Processing Letters</i> , 2016 , 23, 502-506	3.2	10
68	Diffusion LMS Strategies in Sensor Networks With Noisy Input Data. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 3-14	3.8	38
67	Tight Two-Dimensional Outer-Approximations of Feasible Sets in Wireless Sensor Networks. <i>IEEE Communications Letters</i> , 2016 , 20, 570-573	3.8	3
66	Diffusion Adaptation over Multi-Agent Networks with Wireless Link Impairments. <i>IEEE Transactions on Mobile Computing</i> , 2016 , 15, 1362-1376	4.6	18
65	Intercept probability-constrained secure MIMO AF relaying with arbitrarily distributed ECSI errors 2016 ,		1

64	Joint Secure AF Relaying and Artificial Noise Optimization: A Penalized Difference-of-Convex Programming Framework. <i>IEEE Access</i> , 2016 , 4, 10076-10095	3.5	5
63	Enhanced autonomous resource selection for LTE-based V2V communication 2016 ,		32
62	. <i>IEEE Circuits and Systems Magazine</i> , 2016 , 16, 45-77	3.2	37
61	Joint Transceiver Design Algorithms for Multiuser MISO Relay Systems With Energy Harvesting. <i>IEEE Transactions on Communications</i> , 2016 , 1-1	6.9	18
60	Single channel speech enhancement using subband iterative Kalman filter 2016 ,		9
59	Speech dereverberation using linear prediction with estimation of early speech spectral variance 2016 ,		1
58	Relay-Selection Improves the Security-Reliability Trade-Off in Cognitive Radio Systems. <i>IEEE Transactions on Communications</i> , 2015 , 63, 215-228	6.9	185
57	Centralized Adaptation for Parameter Estimation Over Wireless Sensor Networks. <i>IEEE Communications Letters</i> , 2015 , 19, 1624-1627	3.8	8
56	Tomlinson-Harashima precoding design in MIMO wiretap channels based on the MMSE criterion 2015 ,		6
55	Adaptive blind widely linear CCM reduced-rank beamforming for large-scale antenna arrays 2015 ,		2
54	Adaptive Reduced-Rank Receive Processing Based on Minimum Symbol-Error-Rate Criterion for Large-Scale Multiple-Antenna Systems. <i>IEEE Transactions on Communications</i> , 2015 , 63, 4185-4201	6.9	16
53	Sensor localization in NLOS environments with anchor uncertainty and unknown clock parameters 2015 ,		5
52	Robust Transceiver Design for MISO Interference Channel with Energy Harvesting 2015 ,		3
51	Joint Carrier Frequency Offset, Sampling Time Offset and Channel Estimation for OFDM-OQAM Systems 2015 ,		3
50	MIMO AF relaying security: Robust transceiver design in the presence of multiple eavesdroppers 2015 ,		4
49	Semiblind Channel Estimation for OFDM/OQAM Systems. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 400-403	3.2	18
48	Estimation of Space-Time Varying Parameters Using a Diffusion LMS Algorithm. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 403-418	4.8	39
47	Distributed cooperative localization in wireless sensor networks without NLOS identification 2014 ,		10

46	. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5305-5318	9.6	11
45	Min-max MSE transceiver with switched preprocessing for MIMO interference channels 2014 ,		3
44	Cooperative localization of mobile nodes in NLOS 2014 ,		3
43	Complexity reduction techniques for blind adaptive beamforming in OFDM antenna arrays 2014 ,		1
42	Noise power spectral density matrix estimation based on modified IMCRA 2014 ,		2
41	A Low-Complexity Hybrid Framework for Combining-Type Non-regenerative MIMO Relaying. <i>Wireless Personal Communications</i> , 2013 , 72, 635-652	1.9	1
40	Joint Design of Multiple Non-Regenerative MIMO Relaying Matrices With Power Constraints. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 4861-4873	4.8	12
39	Low-complexity variable forgetting factor constant modulus RLS-based algorithm for blind adaptive beamforming 2013 ,		2
38	Cooperative spectrum sensing based on the rao test in non-Gaussian noise environments 2013 ,		1
37	A General Framework for Mixed-Domain Echo Cancellation in Discrete Multitone Systems. <i>IEEE Transactions on Communications</i> , 2013 , 61, 769-780	6.9	6
36	A joint localization and synchronization technique using time of arrival at multiple antenna receivers 2013 ,		1
35	Diffusion LMS localization and tracking algorithm for wireless cellular networks 2013 ,		8
34	Blind Recursive Subspace-Based Identification of Time-Varying Wideband MIMO Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 662-674	6.8	7
33	Diffusion LMS for source and process estimation in sensor networks 2012 ,		9
32	On the robustness of oversampled filter bank multi carrier systems against frequency offset 2012 ,		3
31	EM-based joint estimation and detection for multiple antenna cognitive radios 2012 ,		1
30	Cooperative Multiband Joint Detection With Correlated Spectral Occupancy in Cognitive Radio Networks. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 2682-2687	4.8	12
29	Diffusion LMS algorithms for sensor networks over non-ideal inter-sensor wireless channels 2011 ,		23

28	Wideband Spectrum Sensing for Cognitive Radios With Correlated Subband Occupancy. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 35-38	3.2	27
27	Multidimensional STSA Estimators for Speech Enhancement With Correlated Spectral Components. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 3013-3024	4.8	15
26	An adaptive energy detection technique applied to cognitive radio networks 2011 ,		2
25	MMSE-Based Non-Regenerative Parallel MIMO Relaying with Simplified Receiver 2011 ,		2
24	A family of Bayesian STSA estimators for the enhancement of speech with correlated frequency components 2010 ,		1
23	Non-regenerative MIMO relaying strategies [From single to multiple cooperative relays 2010 ,		4
22	Distributed Blind Adaptive Algorithms Based on Constant Modulus for Wireless Sensor Networks 2010 ,		13
21	Subspace-Based Blind Channel Estimation for MIMO-OFDM Systems With Reduced Time Averaging. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 1539-1544	6.8	24
20	Subspace tracking of fast time-varying channels in precoded MIMO-OFDM systems 2009 ,		4
19	Collaborative Uplink Transmit Beamforming With Robustness Against Channel Estimation Errors. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 126-139	6.8	16
18	Constrained Adaptive Echo Cancellation for Discrete Multitone Systems. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 302-312	4.8	5
17	Adaptive Training-Based Collaborative MIMO Beamforming for Multiuser Relay Networks 2009 ,		2
16	Bayesian spectral amplitude estimation for speech enhancement with correlated spectral components 2009 ,		2
15	A Subspace Method for the Blind Identification of Multiple Time-Varying FIR Channels 2009 ,		3
14	Generalized Bayesian Estimators of the Spectral Amplitude for Speech Enhancement. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 485-488	3.2	12
13	A Noise-Robust FFT-Based Auditory Spectrum With Application in Audio Classification. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 137-150		15
12	Auditory-Based Spectral Amplitude Estimators for Speech Enhancement. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 1614-1623		30
11	Multistage MMSE PIC Space-Time Receiver With Non-Mutually Exclusive Grouping. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 2070-2080	6.8	1

10	Further studies of a FFT-based auditory spectrum with application in audio classification 2008 ,		2
9	Perceptually based speech enhancement using the weighted ESA estimator. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008</i> ,	1.6	2
8	Cooperative MIMO-beamforming for multiuser relay networks. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008</i> ,	1.6	10
7	Subspace Blind MIMO-OFDM Channel Estimation with Short Averaging Periods: Performance Analysis 2008 ,		7
6	Group-Based Space-Time Multiuser Detection with User Sharing. <i>IEEE Transactions on Wireless Communications, 2007</i> , 6, 2034-2039	9.6	7
5	One-Tap Equalizer for Perfect Reconstruction DFT Filter Bank Transceivers 2007 ,		1
4	Further Analysis of the EOrder MMSE STSA Estimator for Speech Enhancement 2007 ,		5
3	A simplified early auditory model with application in audio classification. <i>Canadian Journal of Electrical and Computer Engineering, 2006</i> , 31, 185-189	1.4	
2	Group-Based Linear Parallel Interference Cancellation for DS-CDMA Systems 2006 ,		1
1	A Simplified Early Auditory Model with Application in Speech/Music Classification 2006 ,		3