Eric Moreau

List of Publications by Year
in descending order

85 papers	1,613 citations	394421 19 h-index	377865 34 g-index
88 all docs	88 docs citations	88 times ranked	879 citing authors

#	Article	IF	Citations
1	Convolutional neural network for video fire and smoke detection. , 2016, , .		195
2	A generalization of joint-diagonalization criteria for source separation. IEEE Transactions on Signal Processing, 2001, 49, 530-541.	5.3	131
3	HIGH-ORDER CONTRASTS FOR SELF-ADAPTIVE SOURCE SEPARATION. International Journal of Adaptive Control and Signal Processing, 1996, 10, 19-46.	4.1	110
4	Joint Matrices Decompositions and Blind Source Separation: A survey of methods, identification, and applications. IEEE Signal Processing Magazine, 2014, 31, 34-43.	5.6	103
5	Accurate prediction of continuous blood glucose based on support vector regression and differential evolution algorithm. Biocybernetics and Biomedical Engineering, 2018, 38, 362-372.	5.9	82
6	Generalized contrasts for multichannel blind deconvolution of linear systems. IEEE Signal Processing Letters, 1997, 4, 182-183.	3.6	61
7	A new denoising model for multi-frame super-resolution image reconstruction. Signal Processing, 2017, 132, 51-65.	3.7	59
8	Nonorthogonal Joint Diagonalization/Zero Diagonalization for Source Separation Based on Time-Frequency Distributions. IEEE Transactions on Signal Processing, 2007, 55, 1673-1687.	5.3	50
9	Convolutional neural network for smoke and fire semantic segmentation. IET Image Processing, 2021, 15, 634-647.	2.5	47
10	Quadratic Higher Order Criteria for Iterative Blind Separation of a MIMO Convolutive Mixture of Sources. IEEE Transactions on Signal Processing, 2007, 55, 218-232.	5.3	46
11	Analytic Method for the Computation of the Total Harmonic Distortion by the Cauchy Method of Residues. IEEE Transactions on Communications, 2011, 59, 2478-2491.	7.8	42
12	A Nonunitary Joint Block Diagonalization Algorithm for Blind Separation of Convolutive Mixtures of Sources. IEEE Signal Processing Letters, 2007, 14, 860-863.	3.6	35
13	Nonsymmetrical contrasts for sources separation. IEEE Transactions on Signal Processing, 1999, 47, 2241-2252.	5.3	33
14	Source Separation Contrasts Using a Reference Signal. IEEE Signal Processing Letters, 2004, 11, 312-315.	3.6	33
15	Self-adaptive source separation .I. Convergence analysis of a direct linear network controlled by the Herault-Jutten algorithm. IEEE Transactions on Signal Processing, 1997, 45, 918-926.	5.3	25
16	New Kurtosis Optimization Schemes for MISO Equalization. IEEE Transactions on Signal Processing, 2012, 60, 1319-1330.	5.3	23
17	A robust algorithm for convolutive blind source separation in presence of noise. Signal Processing, 2013, 93, 818-827.	3.7	23
18	Nonorthogonal joint diagonalization of spatial quadratic time-frequency matrices for source separation. IEEE Signal Processing Letters, 2005, 12, 415-418.	3.6	22

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19	New blind source separation method of independent/dependent sources. Signal Processing, 2014, 104, 319-324.	3.7	21
20	Cumulant-based independence measures for linear mixtures. IEEE Transactions on Information Theory, 2001, 47, 1947-1956.	2.4	20
21	A Coordinate Descent Algorithm for Complex Joint Diagonalization Under Hermitian and Transpose Congruences. IEEE Transactions on Signal Processing, 2014, 62, 4974-4983.	5.3	20
22	Gradient-based joint block diagonalization algorithms: Application to blind separation of FIR convolutive mixtures. Signal Processing, 2010, 90, 1836-1849.	3.7	19
23	A Decoupled Jacobi-Like Algorithm for Non-Unitary Joint Diagonalization of Complex-Valued Matrices. IEEE Signal Processing Letters, 2014, 21, 1453-1456.	3.6	19
24	Generalized criteria for blind multivariate signal equalization. IEEE Signal Processing Letters, 2002, 9, 72-74.	3.6	18
25	Artificial neural network for blood glucose level prediction. , 2017, , .		18
26	Early smoke detection of forest wildfire video using deep belief network. , 2018, , .		18
27	Reply to "Comments on 'self-adaptive source separation, part I: convergence analysis of a direct linear network controled by the Herault-Jutten algorithm". IEEE Transactions on Signal Processing, 2000, 48, 3257-3257.	5.3	17
28	Convolutive Blind Signal Separation Based on Asymmetrical Contrast Functions. IEEE Transactions on Signal Processing, 2007, 55, 356-371.	5.3	17
29	Self-adaptive source separation. II. Comparison of the direct, feedback, and mixed linear network. IEEE Transactions on Signal Processing, 1998, 46, 39-50.	5.3	16
30	Algebraic Joint Zero-Diagonalization and Blind Sources Separation. IEEE Transactions on Signal Processing, 2008, 56, 980-989.	5.3	16
31	An iterative algorithm for estimation of linear frequency modulated signal parameters. IEEE Signal Processing Letters, 2002, 9, 127-129.	3.6	15
32	Unbiased Adaptive Estimations of the Fourth-Order Cumulant for Real Random Zero-Mean Signal. IEEE Transactions on Signal Processing, 2009, 57, 3330-3346.	5.3	13
33	A General Algebraic Algorithm for Blind Extraction of One Source in a MIMO Convolutive Mixture. IEEE Transactions on Signal Processing, 2010, 58, 2484-2493.	5.3	13
34	New Jacobi-like algorithms for non-orthogonal joint diagonalization of Hermitian matrices. Signal Processing, 2016, 128, 440-448.	3.7	13
35	Adaptive unsupervised separation of discrete sources. Signal Processing, 1999, 73, 49-66.	3.7	12
36	Unbiased Efficient Estimator of the Fourth-Order Cumulant for Random Zero-Mean Non-i.i.d. Signals: Particular Case of MA Stochastic Process. IEEE Transactions on Information Theory, 2010, 56, 6450-6458.	2.4	11

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37	A new method for kurtosis maximization and source separation. , 2010, , .		11
38	Joint EigenValue Decomposition Algorithms Based on First-Order Taylor Expansion. IEEE Transactions on Signal Processing, 2020, 68, 1716-1727.	5.3	11
39	A new optimization method for reference-based quadratic contrast functions in a deflation scenario. , 2009, , .		10
40	Passive bistatic noise radar using DVB-T signals. IET Radar, Sonar and Navigation, 2010, 4, 403.	1.8	10
41	Space–time clutter rejection and target passive detection using the APES method. IET Signal Processing, 2010, 4, 298.	1.5	9
42	Source Separation and Applications [From the Guest Editors]. IEEE Signal Processing Magazine, 2014, 31, 16-17.	5.6	9
43	A Fast Segmentation Method for Fire Forest Images Based on Multiscale Transform and PCA. Sensors, 2020, 20, 6429.	3.8	8
44	An Efficient Smoke Detection Algorithm Based on Deep Belief Network Classifier Using Energy and Intensity Features. Electronics (Switzerland), 2020, 9, 1390.	3.1	8
45	Jacobi like algorithm for non-orthogonal joint diagonalization of hermitian matrices. , 2014, , .		7
46	Quadratic MIMO Contrast Functions for Blind Source Separation in a Convolutive Context. Lecture Notes in Computer Science, 2006, , 230-237.	1.3	7
47	Control of a Speech Robot via an Optimum Neural-Network-Based Internal Model With Constraints. IEEE Transactions on Robotics, 2010, 26, 142-159.	10.3	6
48	A new class of block coordinate algorithms for the joint eigenvalue decomposition of complex matrices. Signal Processing, 2018, 145, 78-90.	3.7	6
49	A generalized ICA algorithm. IEEE Signal Processing Letters, 2000, 7, 90-92.	3.6	5
50	Comments on blind beamforming for multiple non-Gaussian signals and the constant-modulus algorithm. IEEE Transactions on Signal Processing, 2000, 48, 3248-3250.	5.3	4
51	Non-Orthogonal Zero-Diagonalization for Source Separation based on Time-Frequency Representations. , 0, , .		4
52	Cubic higher-order criterion and algorithm for blind extraction of a source signal. , 2009, , .		4
53	Generalized Identifiability Conditions for Blind Convolutive MIMO Separation. IEEE Transactions on Signal Processing, 2009, 57, 2846-2852.	5.3	4
54	A least squares algorithm for global joint decomposition of complex matrix sets. , 2011, , .		4

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55	A fast algorithm for joint eigenvalue decomposition of real matrices. , 2015, , .		4
56	A coupled joint eigenvalue decomposition algorithm for canonical polyadic decomposition of tensors. , 2016, , .		4
57	LU-based Jacobi-like algorithms for non-orthogonal joint diagonalization. Computers and Mathematics With Applications, 2018, 76, 113-124.	2.7	4
58	A two-step algorithm for joint EigenValue decomposition - Application to canonical polyadic decomposition of fluorescence spectra. Chemometrics and Intelligent Laboratory Systems, 2020, 206, 104065.	3.5	4
59	Comments on "CuBICA: Independent Component Analysis by Simultaneous third- and Fourth-Order Cumulant Diagonalization. IEEE Transactions on Signal Processing, 2006, 54, 4826-4828.	5.3	3
60	Fast Jacobi algorithm for non-orthogonal joint diagonalization of non-symmetric third-order tensors. , 2015, , .		3
61	Estimation of blood glucose levels techniques. , 2017, , .		3
62	Non Unitary Joint Block Diagonalization of Complex Matrices Using a Gradient Approach. , 2007, , 201-208.		3
63	Optimal Joint Diagonalization of Complex Symmetric Third-Order Tensors. Application to Separation of Non Circular Signals. Lecture Notes in Computer Science, 2007, , 25-32.	1.3	3
64	Joint Diagonalization of Third Order Complex Symmetric Tensors and Application to Blind Separation of Non-Circular Sources. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	2
65	Reference Based Contrast Functions in a Semi-blind Context. Lecture Notes in Computer Science, 2009, , 9-16.	1.3	2
66	Non-orthogonal Simultaneous Diagonalization of K-Order Complex Tensors for Source Separation. IEEE Signal Processing Letters, 2017, 24, 1621-1625.	3.6	2
67	A PARAFAC decomposition based algorithm for blind MIMO source separation. , 2009, , .		1
68	An optimal step size relative gradient based joint diagonalization algorithm. , 2009, , .		1
69	Gradient algorithm for reference-based cubic contrast function in a deflation scenario. , 2011, , .		1
70	A Survey of Kurtosis Optimization Schemes for MISO Source Separation and Equalization. , 2013, , 183-217.		1
71	Herniated Lumbar Disc Generation and Classification Using Cycle Generative Adversarial Networks on Axial View MRI. Electronics (Switzerland), 2021, 10, 982.	3.1	1
72	The joint eigenvalue decomposition algorithm based on first-order Taylor expansion via the exterior penalty function method. Signal Processing, 2022, 200, 108644.	3.7	1

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73	\<title\>Radar modulation classification using time-frequency representation and nonlinear regression\</title\>. , 1999, 3810, 62.		0
74	A Sufficient Condition for Separation of Deterministic Signals Based on Spatial Time-Frequency Representations. Lecture Notes in Computer Science, 2004, , 366-373.	1.3	0
75	Convolutive Separation of I.I.D. Signals Based on Simultaneous Tensors Diagonalization. , 2006, , .		0
76	Separation of convolutive mixtures of cyclo-stationary signals using a non-unitary block-diagonalization algorithm. , 2007, , .		0
77	Optimal combination of fourth order statistics for non-circular source separation. , 2008, , .		0
78	Comments on â€œUnbiased estimates for moments and cumulants in linear regressionâ€• Journal of Statistical Planning and Inference, 2012, 142, 1027-1030.	0.6	0
79	Optimal combination of fourth-order cumulant based contrasts for blind separation of noncircular signals. Signal Processing, 2013, 93, 842-855.	3.7	0
80	Fast non-unitary simultaneous diagonalization of third-order tensors. , 2014, , .		0
81	A new fast Jacobi-like algorithm for non-orthogonal joint diagonalization of real-valued matrices based on a QR parameterization. , 2014, , .		0
82	Glycemic evolution of type 1 diabetic patients is a chaotic phenomenon. , 2016, , .		0
83	Relative gradient based algorithms for general joint diagonalization of complex matrices. Multidimensional Systems and Signal Processing, 2016, 27, 275-293.	2.6	0
84	A unitary joint diagonalization algorithm for nonsymmetric higherâ€order tensors based on Givensâ€like rotations. Numerical Linear Algebra With Applications, 2020, 27, e2291.	1.6	0
85	An Algebraic Non Orthogonal Joint Block Diagonalization Algorithm for Blind Separation of Convolutive Mixtures of Sources. Lecture Notes in Computer Science, 2007, , 193-200.	1.3	0