

Matthieu Kowalski

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Underdetermined Reverberant Blind Source Separation: Sparse Approaches for Multiplicative and Convolutional Narrowband Approximation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 442-456.	5.8	29
2	Water Residence Time estimation by 1D deconvolution in the form of a $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle 2 \langle \text{mml:math} \rangle \text{-regu}$ inverse problem with smoothness, positivity and causality constraints. Computers and Geosciences, 2018, 115, 105-121.	4.2	1
3	Convex Optimization approach to signals with fast varying instantaneous frequency. Applied and Computational Harmonic Analysis, 2018, 44, 89-122.	2.2	25
4	Revisiting sparse ICA from a synthesis point of view: Blind Source Separation for over and underdetermined mixtures. Signal Processing, 2018, 152, 165-177.	3.7	15
5	Hybrid Projective Nonnegative Matrix Factorization With Drum Dictionaries for Harmonic/Percussive Source Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1499-1511.	5.8	6
6	Estimation With Low-Rank Time-Frequency Synthesis Models. IEEE Transactions on Signal Processing, 2018, 66, 4121-4132.	5.3	4
7	Sparsity and low-rank amplitude based blind Source Separation. , 2017, , .		4
8	An unified approach for blind source separation using sparsity and decorrelation. , 2015, , .		6
9	Hybrid sparse and low-rank time-frequency signal decomposition. , 2015, , .		4
10	A structured nonnegative matrix factorization for source separation. , 2015, , .		9
11	Hybrid model and structured sparsity for under-determined convolutional audio source separation. , 2014, , .		6
12	Social Sparsity! Neighborhood Systems Enrich Structured Shrinkage Operators. IEEE Transactions on Signal Processing, 2013, 61, 2498-2511.	5.3	64
13	Sparse and structured decomposition of audio signals on hybrid dictionaries using musical priors. Journal of the Acoustical Society of America, 2013, 134, 666-685.	1.1	0
14	Adapted and Adaptive Linear Time-Frequency Representations: A Synthesis Point of View. IEEE Signal Processing Magazine, 2013, 30, 20-31.	5.6	32
15	Beyond the Narrowband Approximation: Wideband Convex Methods for Under-Determined Reverberant Audio Source Separation. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1818-1829.	3.2	43
16	A priori par normes mixtes pour les problèmes inverses. Application à la localisation de sources en M/EEG. Traitement Du Signal, 2010, 27, 53-78.	1.3	0
17	Sparse regression using mixed norms. Applied and Computational Harmonic Analysis, 2009, 27, 303-324.	2.2	185
18	Random Models for Sparse Signals Expansion on Unions of Bases With Application to Audio Signals. IEEE Transactions on Signal Processing, 2008, 56, 3468-3481.	5.3	13