

# Frederik Van Eeghem

## List of Publications by Year in descending order

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23  
papers

3,180  
citations

516215

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713013

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g-index

23  
all docs

23  
docs citations

23  
times ranked

1840  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensor Decomposition for Signal Processing and Machine Learning. IEEE Transactions on Signal Processing, 2017, 65, 3551-3582.	3.2	963
2	Optimization-Based Algorithms for Tensor Decompositions: Canonical Polyadic Decomposition, Decomposition in Rank- $(L_r, L_r, 1)$ Terms, and a New Generalization. SIAM Journal on Optimization, 2013, 23, 695-720.	1.2	399
3	A Link between the Canonical Decomposition in Multilinear Algebra and Simultaneous Matrix Diagonalization. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 642-666.	0.7	381
4	Decompositions of a Higher-Order Tensor in Block Terms—Part II: Definitions and Uniqueness. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 1033-1066.	0.7	325
5	Decompositions of a Higher-Order Tensor in Block Terms—Part III: Alternating Least Squares Algorithms. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 1067-1083.	0.7	156
6	Dimensionality reduction in higher-order signal processing and rank- $(R_1, R_2, \dots, R_N)$ reduction in multilinear algebra. Linear Algebra and Its Applications, 2004, 391, 31-55.	0.4	131
7	On the Uniqueness of the Canonical Polyadic Decomposition of Third-Order Tensors—Part II: Uniqueness of the Overall Decomposition. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 876-903.	0.7	121
8	On the Uniqueness of the Canonical Polyadic Decomposition of Third-Order Tensors—Part I: Basic Results and Uniqueness of One Factor Matrix. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 855-875.	0.7	107
9	Blind Separation of Exponential Polynomials and the Decomposition of a Tensor in Rank- $(L_r, L_r, 1)$ Terms. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 1451-1474.	0.7	102
10	A Tensor-Based Method for Large-Scale Blind Source Separation Using Segmentation. IEEE Transactions on Signal Processing, 2017, 65, 346-358.	3.2	85
11	Canonical Polyadic Decomposition of Third-Order Tensors: Reduction to Generalized Eigenvalue Decomposition. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 636-660.	0.7	84
12	A kernel-based framework to tensorial data analysis. Neural Networks, 2011, 24, 861-874.	3.3	80
13	Blind Signal Separation via Tensor Decomposition With Vandermonde Factor: Canonical Polyadic Decomposition. IEEE Transactions on Signal Processing, 2013, 61, 5507-5519.	3.2	70
14	Canonical polyadic decomposition of third-order tensors: Relaxed uniqueness conditions and algebraic algorithm. Linear Algebra and Its Applications, 2017, 513, 342-375.	0.4	60
15	Coupled Canonical Polyadic Decompositions and (Coupled) Decompositions in Multilinear Rank- $(L_{\{r,n\}}, L_{\{r,n\}}, 1)$ Terms—Part II: Algorithms. SIAM Journal on Matrix Analysis and Applications, 2015, 36, 1015-1045.	0.7	55
16	Low-Rank-Based Blind Signal Separation of Rational Functions With Applications. IEEE Transactions on Signal Processing, 2016, 64, 1909-1918.	3.2	36
17	Blind Multichannel Deconvolution and Convolutional Extensions of Canonical Polyadic and Block Term Decompositions. IEEE Transactions on Signal Processing, 2017, 65, 4132-4145.	3.2	14
18	Tensor Decompositions With Several Block-Hankel Factors and Application in Blind System Identification. IEEE Transactions on Signal Processing, 2017, 65, 4090-4101.	3.2	6

#	ARTICLE	IF	CITATIONS
19	Tensor Similarity in Two Modes. IEEE Transactions on Signal Processing, 2018, 66, 1273-1285.	3.2	2
20	From Computation to Comparison of Tensor Decompositions. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 449-474.	0.7	2
21	Coupled and Incomplete Tensors in Blind System Identification. IEEE Transactions on Signal Processing, 2018, 66, 6137-6147.	3.2	1
22	Algorithms for Canonical Polyadic Decomposition With Block-Circulant Factors. IEEE Signal Processing Letters, 2018, 25, 798-802.	2.1	0
23	Tensor Similarity in Chemometrics. , 2020, , 337-354.		0