

# Felix Voigtlaender

## List of Publications by Year in descending order

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16  
papers

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1478505

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1281871

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16  
times ranked

238  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal approximation of piecewise smooth functions using deep ReLU neural networks. Neural Networks, 2018, 108, 296-330.	5.9	248
2	Approximation Spaces of Deep Neural Networks. Constructive Approximation, 2022, 55, 259-367.	3.0	31
3	Topological Properties of the Set of Functions Generated by Neural Networks of Fixed Size. Foundations of Computational Mathematics, 2021, 21, 375-444.	2.5	30
4	Wavelet coorbit spaces viewed as decomposition spaces. Journal of Functional Analysis, 2015, 269, 80-154.	1.4	26
5	Resolution of the Wavefront Set Using General Continuous Wavelet Transforms. Journal of Fourier Analysis and Applications, 2016, 22, 997-1058.	1.0	13
6	Negative results for approximation using single layer and multilayer feedforward neural networks. Journal of Mathematical Analysis and Applications, 2021, 494, 124584.	1.0	10
7	On dual molecules and convolution-dominated operators. Journal of Functional Analysis, 2021, 280, 108963.	1.4	6
8	Design and properties of wave packet smoothness spaces. Journal Des Mathematiques Pures Et Appliquees, 2020, 133, 185-262.	1.6	3
9	A quantitative subspace Balian-Low theorem. Applied and Computational Harmonic Analysis, 2021, 55, 368-404.	2.2	3
10	Approximation in $L_p(\hat{\mu})$ with deep ReLU neural networks. , 2019, , .		2
11	Schur-type Banach modules of integral kernels acting on mixed-norm Lebesgue spaces. Journal of Functional Analysis, 2021, 281, 109197.	1.4	2
12	Quantitative Approximation Results for Complex-Valued Neural Networks. SIAM Journal on Mathematics of Data Science, 2022, 4, 553-580.	1.8	2
13	Unfavorable structural properties of the set of neural networks with fixed architecture. , 2019, , .		1
14	A General Version of Price's Theorem. Journal of Theoretical Probability, 2021, 34, 1474.	0.8	0
15	The structure of spaces of neural network functions. , 2019, , .		0
16	Phase Transitions in Rate Distortion Theory and Deep Learning. Foundations of Computational Mathematics, 0, , 1.	2.5	0