

# Volker

## List of Publications by Year in descending order

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29  
papers

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citations

1163117

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h-index

1125743

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29  
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29  
docs citations

29  
times ranked

77  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phaseless Signal Recovery in Infinite Dimensional Spaces Using Structured Modulations. Journal of Fourier Analysis and Applications, 2014, 20, 1212-1233.	1.0	26
2	On the Calculation of the Hilbert Transform From Interpolated Data. IEEE Transactions on Information Theory, 2008, 54, 2358-2366.	2.4	21
3	On the Algorithmic Solvability of Spectral Factorization and Applications. IEEE Transactions on Information Theory, 2020, 66, 4574-4592.	2.4	19
4	U-Invariant Sampling: Extrapolation and Causal Interpolation From Generalized Samples. IEEE Transactions on Signal Processing, 2011, 59, 2085-2100.	5.3	18
5	Calculating the Hilbert Transform on Spaces With Energy Concentration: Convergence and Divergence Regions. IEEE Transactions on Information Theory, 2019, 65, 586-603.	2.4	13
6	Zero-forcing precoding for frequency selective MIMO channels with criterion and causality constraint. Signal Processing, 2009, 89, 1754-1761.	3.7	11
7	On the Algorithmic Solvability of the Spectral Factorization and the Calculation of the Wiener Filter on Turing Machines. , 2019, , .		10
8	Limits of calculating the finite Hilbert transform from discrete samples. Applied and Computational Harmonic Analysis, 2019, 46, 66-93.	2.2	10
9	Behaviour of the spectral factorization for continuous spectral densities. Signal Processing, 2007, 87, 1078-1088.	3.7	9
10	Sampling and Reconstruction of Multiple-Input Multiple-Output Channels. IEEE Transactions on Signal Processing, 2019, 67, 961-976.	5.3	7
11	On the behavior of disk algebra bases with applications. Signal Processing, 2006, 86, 3915-3922.	3.7	6
12	On the strong divergence of Hilbert transform approximations and a problem of Ul'yanov. Journal of Approximation Theory, 2016, 204, 34-60.	0.8	6
13	Robustness of the Inner-Outer Factorization and of the Spectral Factorization for FIR Data. IEEE Transactions on Signal Processing, 2008, 56, 274-283.	5.3	4
14	The Stability and Continuity Behavior of the Spectral Factorization in the Wiener Algebra With Applications in Wiener Filtering. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3063-3076.	5.4	4
15	Investigations on the approximability and computability of the Hilbert transform with applications. Applied and Computational Harmonic Analysis, 2020, 48, 706-730.	2.2	4
16	Turing Meets Circuit Theory: Not Every Continuous-Time LTI System Can be Simulated on a Digital Computer. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5051-5064.	5.4	4
17	Can every analog system be simulated on a digital computer?. , 2020, , .		4
18	Complexity Blowup in Simulating Analog Linear Time-Invariant Systems on Digital Computers. IEEE Transactions on Signal Processing, 2021, 69, 5005-5020.	5.3	4

#	ARTICLE	IF	CITATIONS
19	Boundedness Behavior of the Spectral Factorization for Polynomial Data in the Wiener Algebra. IEEE Transactions on Signal Processing, 2008, 56, 3100-3107.	5.3	3
20	The Solvability Complexity Index of Sampling-based Hilbert Transform Approximations. , 2019, , .		3
21	On Non-Detectability of Non-Computability and the Degree of Non-Computability of Solutions of Circuit and Wave Equations on Digital Computers. IEEE Transactions on Information Theory, 2022, 68, 5561-5578.	2.4	3
22	On the behavior of causal projections with applications. Signal Processing, 2007, 87, 3108-3130.	3.7	2
23	Rate of Convergence in Approximating the Spectral Factor of Regular Stochastic Sequences. IEEE Transactions on Information Theory, 2009, 55, 5674-5681.	2.4	1
24	The Divergence of all Sampling-based Methods for Calculating the Spectral Factorization. , 2019, , .		1
25	Calculating the spectral factorization and outer functions by sampling-based approximationsâ€”Fundamental limitations. Journal of Approximation Theory, 2020, 257, 105450.	0.8	1
26	Data Transmission Over Linear Time-Varying Channels. IEEE Transactions on Signal Processing, 2022, 70, 3357-3370.	5.3	1
27	Energy Blowup of Sampling-based Approximation Methods. , 2019, , .		0
28	On approximations for functions in the space of uniformly convergent Fourier series. Journal of Approximation Theory, 2020, 249, 105307.	0.8	0
29	Complexity Blowup if Continuous-Time LTI Systems are Implemented on Digital Hardware. , 2021, , .		0