Pierre Chainais

List of Publications by Year
in descending order

30 papers	**370** citations
1051969 **10** h-index	939365 **18** g-index
31 all docs	**31** docs citations
31 times ranked	**333** citing authors

#	Article	IF	Citations
1	High-Dimensional Gaussian Sampling: A Review and a Unifying Approach Based on a Stochastic Proximal Point Algorithm. SIAM Review, 2022, 64, 3-56.	4.2	5
2	Asymptotically Exact Data Augmentation: Models, Properties, and Algorithms. Journal of Computational and Graphical Statistics, 2021, 30, 335-348.	0.9	9
3	Efficient Sampling through Variable Splitting-inspired Bayesian Hierarchical Models. , 2019, , .		0
4	Bayesian Image Restoration under Poisson Noise and Log-concave Prior. , 2019, , .		4
5	Split-and-Augmented Gibbs Sampler—Application to Large-Scale Inference Problems. IEEE Transactions on Signal Processing, 2019, 67, 1648-1661.	3.2	25
6	Time–frequency analysis of bivariate signals. Applied and Computational Harmonic Analysis, 2019, 46, 351-383.	1.1	22
7	Towards Dictionaries of Optimal Size: A Bayesian Non Parametric Approach. Journal of Signal Processing Systems, 2018, 90, 221-232.	1.4	8
8	Small variance asymptotics and bayesian nonparametrics for dictionary learning. , 2018, , .		1
9	A Complete Framework for Linear Filtering of Bivariate Signals. IEEE Transactions on Signal Processing, 2018, 66, 4541-4552.	3.2	11
10	Indian Buffet Process dictionary learning: Algorithms and applications to image processing. International Journal of Approximate Reasoning, 2017, 83, 1-20.	1.9	5
11	Spectral Analysis of Stationary Random Bivariate Signals. IEEE Transactions on Signal Processing, 2017, 65, 6135-6145.	3.2	13
12	Statistical Performance Analysis of a Fast Super-Resolution Technique Using Noisy Translations. IEEE Transactions on Image Processing, 2016, 25, 1699-1712.	6.0	3
13	Ultrasonic tomography of nonmixing fluid flows. Physics of Wave Phenomena, 2015, 23, 273-278.	0.3	2
14	A Bayesian fusion model for space-time reconstruction of finely resolved velocities in turbulent flows from low resolution measurements. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P10008.	0.9	3
15	Dictionary learning for a sparse appearance model in visual tracking. , 2015, , .		1
16	A Bayesian non parametric approach to learn dictionaries with adapted numbers of atoms. , 2015, , .		4
17	Quantitative control of the error bounds of a fast super-resolution technique for microscopy and astronomy. , 2014, , .		4
18	Learning a common dictionary over a sensor network. , 2013, , .		23

#	Article	IF	Citations
19	Towards dictionary learning from images with non Gaussian noise. , 2012, , .		4
20	Virtual Super Resolution of Scale Invariant Textured Images Using Multifractal Stochastic Processes. Journal of Mathematical Imaging and Vision, 2011, 39, 28-44.	0.8	15
21	Aligned carbon nanotube based ultrasonic microtransducers for durability monitoring in civil engineering. Nanotechnology, 2011, 22, 395501.	1.3	6
22	Multifractal Random Walks as Fractional Wiener Integrals. IEEE Transactions on Information Theory, 2009, 55, 3825-3846.	1.5	17
23	3D Reconstruction from SECCHI-EUVI Images Using anÂOptical-Flow Algorithm: Method Description andÂObservation of an Erupting Filament. Solar Physics, 2008, 252, 397-408.	1.0	35
24	Combining learning methods and time-scale analysis for defect diagnosis of a tramway guiding system. , 2008, , .		1
25	Quantifying and containing the curse of high resolution coronal imaging. Annales Geophysicae, 2008, 26, 3169-3184.	0.6	5
26	Modeling images of the Quiet Sun in the extreme ultraviolet. Proceedings of SPIE, 2007, , .	0.8	3
27	Infinitely Divisible Cascades to Model the Statistics of Natural Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 2105-2119.	9.7	31
28	On causal stochastic equations for log-stable multiplicative cascades. European Physical Journal B, 2007, 58, 149-158.	0.6	11
29	On Non-Scale-Invariant Infinitely Divisible Cascades. IEEE Transactions on Information Theory, 2005, 51, 1063-1083.	1.5	66
30	Intermittency and coherent structures in a swirling flow: A wavelet analysis of joint pressure and velocity measurements. Physics of Fluids, 1999, 11, 3524-3539.	1.6	31