

# Charles Soussen

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

689  
citations

623574

14  
h-index

580701

25  
g-index

48  
all docs

48  
docs citations

48  
times ranked

837  
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameter Estimation in Sparse Inverse Problems Using Bernoulli-Gaussian Prior. , 2022, , .		2
2	When does OMP achieve exact recovery with continuous dictionaries?. Applied and Computational Harmonic Analysis, 2021, 51, 374-413.	1.1	3
3	Improved Deconvolution of Mineral Reflectance Spectra. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 9711-9726.	2.3	1
4	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"} \rangle \langle \text{mml:mi} \rangle K \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -step analysis of orthogonal greedy algorithms for non-negative sparse representations. Signal Processing, 2021, 188, 108185.	2.1	3
5	OMP-Based Algorithm for Mineral Reflectance Spectra Deconvolution from Hyperspectral Images. , 2020, , .		0
6	A Parallelizable Framework for Segmenting Piecewise Signals. IEEE Access, 2019, 7, 13217-13229.	2.6	1
7	OMP and Continuous Dictionaries: Is $k$ -step Recovery Possible?. , 2019, , .		3
8	Non-Negative Orthogonal Greedy Algorithms. IEEE Transactions on Signal Processing, 2019, 67, 5643-5658.	3.2	23
9	ROHSA: Regularized Optimization for Hyper-Spectral Analysis. Astronomy and Astrophysics, 2019, 626, A101.	2.1	39
10	Parameterized source separation for delayed spectroscopic signals. Signal Processing, 2019, 158, 48-60.	2.1	3
11	Research and development of effective optical technologies for diagnostics in dermatology. , 2019, , .		1
12	Source separation approach for the analysis of spatially resolved multiply excited autofluorescence spectra during optical clearing of ex vivo skin. Biomedical Optics Express, 2019, 10, 3410.	1.5	5
13	Spectroscopic Decomposition Of Astronomical Multispectral Images Using B-Splines. , 2018, , .		0
14	Spatially resolved spectroscopy for guiding margin delineation during human skin carcinomas resection: first clinical results on diffuse reflectance and autofluorescence spectra and in vivo skin optical properties. , 2018, , .		1
15	Influence of cost functions and optimization methods on solving the inverse problem in spatially resolved diffuse reflectance spectroscopy. , 2017, , .		0
16	Separation of delayed parameterized sources. , 2017, , .		2
17	Preliminary study investigating depth sensitivity of spatially resolved bimodal spectroscopy combined to optical clearing agents on a human skin based-hybrid model. , 2017, , .		0
18	Construction of Extended 3D Field of Views of the Internal Bladder Wall Surface: A Proof of Concept. 3D Research, 2016, 7, 1.	1.8	6

#	ARTICLE	IF	CITATIONS
19	Generalized LASSO with under-determined regularization matrices. Signal Processing, 2016, 127, 239-246.	2.1	40
20	DDB2 (damaged-DNA binding 2) protein: a new modulator of nanomechanical properties and cell adhesion of breast cancer cells. Nanoscale, 2016, 8, 5268-5279.	2.8	14
21	Relaxed Recovery Conditions for OMP/OLS by Exploiting Both Coherence and Decay. IEEE Transactions on Information Theory, 2016, 62, 459-470.	1.5	22
22	An optimal method to segment piecewise poisson distributed signals with application to sequencing data. , 2015, 2015, 6465-8.		0
23	Homotopy Based Algorithms for $\ell_1$ -Regularized Least-Squares. IEEE Transactions on Signal Processing, 2015, 63, 3301-3316.	3.2	34
24	Sequential deconvolution &#x2014; Unmixing of blurred hyperspectral data. , 2014, , .		1
25	Does Deblurring Improve Geometrical Hyperspectral Unmixing?. IEEE Transactions on Image Processing, 2014, 23, 1169-1180.	6.0	15
26	Confocal fluorescence microscopy and force-volume imaging in atomic force microscopy: A signal processing perspective. , 2014, , .		0
27	Flexible calibration of structured-light systems projecting point patterns. Computer Vision and Image Understanding, 2013, 117, 1468-1481.	3.0	33
28	Exact Recovery Conditions for Sparse Representations With Partial Support Information. IEEE Transactions on Information Theory, 2013, 59, 7509-7524.	1.5	39
29	Fast Positive Deconvolution of Hyperspectral Images. IEEE Transactions on Image Processing, 2013, 22, 828-833.	6.0	30
30	Joint $\ell_1/\ell_2$ -Step Analysis of Orthogonal Matching Pursuit and Orthogonal Least Squares. IEEE Transactions on Information Theory, 2013, 59, 3158-3174.	1.5	57
31	Edge-preserving nonnegative hyperspectral image restoration. , 2013, , .		6
32	Ultrasonic non destructive testing based on sparse deconvolution. Journal of Physics: Conference Series, 2012, 353, 012018.	0.3	14
33	On LARS/Homotopy Equivalence Conditions for Over-Determined LASSO. IEEE Signal Processing Letters, 2012, 19, 894-897.	2.1	8
34	Sparse multidimensional modal analysis using a multigrid dictionary refinement. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	13
35	Fast deconvolution of large fluorescence hyperspectral images. , 2011, , .		2
36	Sparse multiresolution modal estimation. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
37	Sparse deconvolution: Comparison of statistical and deterministic approaches. , 2011, , .		6
38	From Bernoulliâ€“Gaussian Deconvolution to Sparse Signal Restoration. IEEE Transactions on Signal Processing, 2011, 59, 4572-4584.	3.2	106
39	Automated Force Volume Image Processing for Biological Samples. PLoS ONE, 2011, 6, e18887.	1.1	86
40	A novel 3D surface construction approach: Application to three-dimensional endoscopic data. , 2010, , .		9
41	Flexible projector calibration for active stereoscopic systems. , 2010, , .		7
42	Efficient Domain Decomposition for a Neural Network Learning Algorithm, Used for the Dose Evaluation in External Radiotherapy. Lecture Notes in Computer Science, 2010, , 261-266.	1.0	7
43	Modeling of force-volume images in atomic force microscopy. , 2008, , .		1
44	Reconstruction of three-dimensional localized objects from limited angle x-ray projections: an approach based on sparsity and multigrid image representation. Journal of Electronic Imaging, 2008, 17, 033011.	0.5	6
45	Polygonal and Polyhedral Contour Reconstruction in Computed Tomography. IEEE Transactions on Image Processing, 2004, 13, 1507-1523.	6.0	33
46	<title>Multiresolution approach to the estimation of the shape of a 3D compact object from its radiographic data</title>. , 1999, 3816, 150.		4