Scott C Douglas

List of Publications by Year
in descending order

48 papers	747 citations	1163117 8 h-index	839539 18 g-index
48 all docs	48 docs citations	48 times ranked	433 citing authors

#	Article	IF	Citations
1	Adaptive Frequency Estimation in Smart Grid Applications: Exploiting Noncircularity and Widely Linear Adaptive Estimators. IEEE Signal Processing Magazine, 2012, 29, 44-54.	5.6	145
2	Spatio–Temporal FastICA Algorithms for the Blind Separation of Convolutive Mixtures. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1511-1520.	3.2	79
3	Convolutive blind separation of speech mixtures using the natural gradient. Speech Communication, 2003, 39, 65-78.	2.8	62
4	Fixed-Point Algorithms for the Blind Separation of Arbitrary Complex-Valued Non-Gaussian Signal Mixtures. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	58
5	Scaled Natural Gradient Algorithms for Instantaneous and Convolutive Blind Source Separation. , 2007, , .		53
6	Widely-linear recursive least-squares algorithm for adaptive beamforming. , 2009, , .		49
7	Novel On-Line Adaptive Learning Algorithms for Blind Deconvolution Using the Natural Gradient Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 1007-1012.	0.4	46
8	Performance analysis of the conventional complex LMS and augmented complex LMS algorithms. , 2010, , .		28
9	An adaptive approach for the identification of improper complex signals. Signal Processing, 2012, 92, 335-344.	3.7	28
10	Gradient Adaptive Algorithms for Contrast-Based Blind Deconvolution. Journal of Signal Processing Systems, 2000, 26, 47-60.	1.0	23
11	Normalized natural gradient adaptive filtering for sparse and non-sparse systems. , 2002, , .		20
12	Performance analysis of the deficient length augmented CLMS algorithm for second order noncircular complex signals. Signal Processing, 2018, 144, 214-225.	3.7	19
13	Duality between widely linear and dual channel adaptive filtering. , 2009, , .		17
14	Mean square analysis of the CLMS and ACLMS for non-circular signals: The approximate uncorrelating transform approach. , 2015, , .		17
15	The least-mean-magnitude-phase algorithm with applications to communications systems. , 2011, , .		10
16	Mean and Mean-Square Analysis of the Complex LMS Algorithm for Non-Circular Gaussian Signals. , 2009, , .		9
17	A perspective on CLMS as a deficient length augmented CLMS: Dealing with second order noncircularity. Signal Processing, 2018, 149, 236-245.	3.7	8
18	Simple, Robust, and Memory-Efficient FastICA Algorithms Using the Huber M-Estimator Cost Function. Journal of Signal Processing Systems, 2007, 48, 143-159.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Collaborative adaptive filtering in the complex domain. , 2008, , .		7
20	Convolutive Blind Source Separation for Audio Signals. Signals and Communication Technology, 2007, , 3-45.	0.5	6
21	Fast exact adaptive algorithms for feedforward active noise control. International Journal of Adaptive Control and Signal Processing, 2000, 14, 643-661.	4.1	5
22	Widely linear state space models for frequency estimation in unbalanced three-phase systems. , 2012, , .		5
23	The quaternion least mean magnitude phase adaptive filtering algorithm. , 2017, , .		5
24	Beamforming Initialization and Data Prewhitening in Natural Gradient Convolutive Blind Source Separation of Speech Mixtures. , 2007, , 462-470.		5
25	Gradient Adaptive Paraunitary Filter Banks for Spatio-Temporal Subspace Analysis and Multichannel Blind Deconvolution. Journal of Signal Processing Systems, 2004, 37, 247-261.	1.0	4
26	Designing Pre-College Engineering Curricula and Technology: Lessons Learned From the Infinity Project. Proceedings of the IEEE, 2008, 96, 1035-1048.	21.3	4
27	A real time tracker of complex circularity. , 2014, , .		4
28	Performance advantage of quaternion widely linear estimation: An approximate uncorrelating transform approach. , 2016, , .		4
29	Using piecewise linear nonlinearities in the natural gradient and FastICA algorithms for blind source separation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	3
30	Widely linear adaptive frequency estimation in three-phase power systems under unbalanced voltage sag conditions. , 2011, , .		3
31	Region-of-Interest Estimation for Adaptive Resource Allocation in Multi-Aperture Imaging Systems. , 2007, , .		2
32	A Spatio–Temporal Speech Enhancement Technique Based on Generalized Eigenvalue Decomposition. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 830-839.	3.2	2
33	Root-MSE geolocation performance using angle-of-arrival measurements. , 2013, , .		2
34	Performance Evaluation of Convolutive Blind Source Separation of Mixtures of Unequal-Level Speech Signals. , 2007, , .		1
35	On the Design of Gradient Algorithms Employing Orthogonal Matrix Constraints. , 2007, , .		1
36	Signal Deflation and Paraunitary Constraints in Spatio-Temporal Fastica-Based Convolutive Blind Source Separation of Speech Mixtures. , 2007, , .		1

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37	Model-based region-of-interest estimation for adaptive resource allocation in multi-aperture imaging systems. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
38	Weighted stansfield algorithm in three dimensions. , 2014, , .		1
39	An angular sampling theorem for the usable frequency range of antenna array calibration measurements. , 2014, , .		1
40	Single-channel Wiener filtering of deterministic signals in stochastic noise using the panorama. , 2017, , .		1
41	Extending the Stansfield Algorithm to Three Dimensions: Algorithms and Implementations. IEEE Transactions on Signal Processing, 2018, 66, 1106-1117.	5.3	1
42	Blind deconvolution of impulsive signals using a modified Sato algorithm. , 2002, , .		0
43	A Modified Spatio-Temporal Orthogonal Iteration Method for Multichannel Audio Signal Representation. , 2007, , .		0
44	A spatio-temporal power method for time-domain multi-channel speech enhancement. , 2009, , .		0
45	Application of Two Time-Domain Convolutive Blind Source Separation Algorithms to the 2008 Signal Separation Evaluation Campaign (SiSEC) Data. Lecture Notes in Computer Science, 2009, , 759-766.	1.3	0
46	Assessing range accuracy for bearings-only geolocation using optimal logarithmic spiral sensor path trajectories. , 2015, , .		0
47	Reduced-complexity direction-of-arrival estimation for large-aperture antenna arrays employing spatial ambiguities. , 2016, , .		0
48	Affine-Projection Least-Mean-Magnitude-Phase Algorithms Using a Posteriori Updates. , 2018, , .		0