

Jose M F Moura

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7096076/publications.pdf>

Version: 2024-02-01

362
papers

15,939
citations

23567

58
h-index

22832

112
g-index

365
all docs

365
docs citations

365
times ranked

8492
citing authors

#	ARTICLE	IF	CITATIONS
1	Graph Signal Processing: Dualizing GSP Sampling in the Vertex and Spectral Domains. IEEE Transactions on Signal Processing, 2022, 70, 2883-2898.	5.3	5
2	In Remembrance of Peter Schultheiss [In Memoriam]. IEEE Signal Processing Magazine, 2021, 38, 10-10.	5.6	0
3	Using Sparse Spectral Shifts in Graph CNNs. , 2021, , .		0
4	Graph Classification: Tradeoffs between Deep Neural Network Architecture and Graph Topology. , 2021, , .		0
5	Primalâ€“Dual Methods for Large-Scale and Distributed Convex Optimization and Data Analytics. Proceedings of the IEEE, 2020, 108, 1923-1938.	21.3	28
6	Resilient Distributed Recovery of Large Fields. , 2020, , .		1
7	Graph Fourier Transform: A Stable Approximation. IEEE Transactions on Signal Processing, 2020, 68, 4422-4437.	5.3	19
8	Graph Signal Processing and Deep Learning: Convolution, Pooling, and Topology. IEEE Signal Processing Magazine, 2020, 37, 139-149.	5.6	34
9	Resilient Distributed Field Estimation. SIAM Journal on Control and Optimization, 2020, 58, 1429-1456.	2.1	9
10	Edge Entropy as an Indicator of the Effectiveness of GNNs over CNNs for Node Classification. , 2020, , .		0
11	Graph Signal Processing: Foundations and Emerging Directions [From the Guest Editors]. IEEE Signal Processing Magazine, 2020, 37, 11-13.	5.6	14
12	A Dual Approach to Graph CNNs. , 2020, , .		2
13	Finite-Time In-Network Computation of Linear Transforms. , 2020, , .		0
14	Visual Dialog. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1242-1256.	13.9	23
15	Resilient Distributed Parameter Estimation With Heterogeneous Data. IEEE Transactions on Signal Processing, 2019, 67, 4918-4933.	5.3	24
16	Detecting Random Walks on Graphs With Heterogeneous Sensors. IEEE Transactions on Information Theory, 2019, 65, 4893-4914.	2.4	2
17	Pooling in Graph Convolutional Neural Networks. , 2019, , .		9
18	Annealing for Distributed Global Optimization. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	Topics in Graph Signal Processing: Convolution and Modulation. , 2019, , .		5
20	Distributed Global Optimization by Annealing. , 2019, , .		2
21	Resilient Distributed Estimation: Sensor Attacks. IEEE Transactions on Automatic Control, 2019, 64, 3772-3779.	5.7	67
22	Resilient Distributed Estimation Through Adversary Detection. IEEE Transactions on Signal Processing, 2018, 66, 2455-2469.	5.3	64
23	Graph Signal Processing: Overview, Challenges, and Applications. Proceedings of the IEEE, 2018, 106, 808-828.	21.3	982
24	Optimal Filter Design for Signal Processing on Random Graphs: Accelerated Consensus. IEEE Transactions on Signal Processing, 2018, 66, 1258-1272.	5.3	10
25	SILVar: Single Index Latent Variable Models. IEEE Transactions on Signal Processing, 2018, 66, 2790-2803.	5.3	8
26	Optimal Attack Strategies Subject to Detection Constraints Against Cyber-Physical Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 1157-1168.	3.7	79
27	Structurally Observable Distributed Networks of Agents Under Cost and Robustness Constraints. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 236-247.	2.8	10
28	Cascading Edge Failures: A Dynamic Network Process. IEEE Transactions on Network Science and Engineering, 2018, 5, 288-300.	6.4	5
29	Cyber-Physical Attacks With Control Objectives. IEEE Transactions on Automatic Control, 2018, 63, 1418-1425.	5.7	56
30	Classification with Vertex-Based Graph Convolutional Neural Networks. , 2018, , .		5
31	Learning to Understand Image Blur. , 2018, , .		27
32	Teaching Robots to Predict Human Motion. , 2018, , .		61
33	SINGLE INDEX LATENT VARIABLE MODELS FOR NETWORK TOPOLOGY INFERENCE. , 2018, , .		0
34	Resilient Distributed Estimation: Exponential Convergence Under Sensor Attacks. , 2018, , .		7
35	SPIRAL: Extreme Performance Portability. Proceedings of the IEEE, 2018, 106, 1935-1968.	21.3	58
36	Who is More at Risk in Heterogenous Networks?. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	From High-Level Specification to High-Performance Code. Proceedings of the IEEE, 2018, 106, 1875-1878.	21.3	1
38	The Internet of Things: Secure Distributed Inference. IEEE Signal Processing Magazine, 2018, 35, 64-75.	5.6	52
39	SPECTRAL STATISTICS OF DIRECTED NETWORKS WITH RANDOM LINK MODEL TRANSPOSE-ASYMMETRY. , 2018, , .		0
40	Distributed Localization: A Linear Theory. Proceedings of the IEEE, 2018, 106, 1204-1223.	21.3	79
41	A Deep Learning Approach to IoT Authentication. , 2018, , .		74
42	Attack Resilient Distributed Estimation: A Consensus+Innovations Approach. , 2018, , .		16
43	ON GRAPH CONVOLUTION FOR GRAPH CNNs. , 2018, , .		10
44	Factorized Convolutional Networks: Unsupervised Fine-Tuning for Image Clustering. , 2018, , .		2
45	Adversarial Geometry-Aware Human Motion Prediction. Lecture Notes in Computer Science, 2018, , 823-842.	1.3	130
46	Few-Shot Human Motion Prediction via Meta-learning. Lecture Notes in Computer Science, 2018, , 441-459.	1.3	62
47	Visual Coreference Resolution in Visual Dialog Using Neural Module Networks. Lecture Notes in Computer Science, 2018, , 160-178.	1.3	81
48	Reconstruction of Lamb wave dispersion curves by sparse representation with continuity constraints. Journal of the Acoustical Society of America, 2017, 141, 749-763.	1.1	22
49	OESPG: Computational Framework for Multidimensional Analysis of Occupant Energy Use Data in Commercial Buildings. Journal of Computing in Civil Engineering, 2017, 31, 04017017.	4.7	4
50	Dynamic Attack Detection in Cyber-Physical Systems With Side Initial State Information. IEEE Transactions on Automatic Control, 2017, 62, 4618-4624.	5.7	106
51	Signal Processing on Graphs: Causal Modeling of <i>Unstructured</i> Data. IEEE Transactions on Signal Processing, 2017, 65, 2077-2092.	5.3	136
52	A Stochastic Adaptive Model to Explore Mobile Botnet Dynamics. IEEE Communications Letters, 2017, 21, 753-756.	4.1	10
53	Spectral Projector-Based Graph Fourier Transforms. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 785-795.	10.8	41
54	Geodesic distance on a Grassmannian for monitoring the progression of Alzheimer's disease. NeuroImage, 2017, 146, 1016-1024.	4.2	7

#	ARTICLE	IF	CITATIONS
55	<i>Consensus+Innovations</i> Distributed Kalman Filter With Optimized Gains. IEEE Transactions on Signal Processing, 2017, 65, 467-481.	5.3	116
56	Visual Dialog. , 2017, , .		300
57	Understanding Traffic Density from Large-Scale Web Camera Data. , 2017, , .		70
58	Graph signal processing: Filter design and spectral statistics. , 2017, , .		5
59	FCN-rLSTM: Deep Spatio-Temporal Neural Networks for Vehicle Counting in City Cameras. , 2017, , .		149
60	Convergence analysis of the information matrix in Gaussian Belief Propagation. , 2017, , .		14
61	Spectral statistics of lattice graph structured, non-uniform percolations. , 2017, , .		3
62	Distributed convergence verification for Gaussian belief propagation. , 2017, , .		2
63	Detecting adversaries in distributed estimation. , 2017, , .		1
64	Learning Cooperative Visual Dialog Agents with Deep Reinforcement Learning. , 2017, , .		158
65	Consensus state gram matrix estimation for stochastic switching networks from spectral distribution moments. , 2017, , .		2
66	Contact process with exogenous infection and the scaled SIS process. Journal of Complex Networks, 2017, 5, 712-733.	1.8	8
67	Convergence analysis of belief propagation for pairwise linear Gaussian models. , 2017, , .		4
68	Spectral radius and network processes with spontaneous infection/failure rate. , 2016, , .		0
69	Adaptive social networks: Strong attractors and emergence and downfall of leaders. , 2016, , .		0
70	Big data computation of taxi movement in New York City. , 2016, , .		16
71	Thermodynamic limit of interacting particle systems over dynamical networks. , 2016, , .		0
72	Finding unique dense communities. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
73	New York city taxi analysis with graph signal processing. , 2016, , .		15
74	Cyber physical attacks with control objectives and detection constraints. , 2016, , .		12
75	Distributed Inference Over Directed Networks: Performance Limits and Optimal Design. IEEE Transactions on Signal Processing, 2016, 64, 3308-3323.	5.3	8
76	Cyber physical attacks constrained by control objectives. , 2016, , .		16
77	Distributed Constrained Recursive Nonlinear Least-Squares Estimation: Algorithms and Asymptotics. IEEE Transactions on Signal and Information Processing Over Networks, 2016, , 1-1.	2.8	24
78	VisualWord2Vec (Vis-W2V): Learning Visually Grounded Word Embeddings Using Abstract Scenes. , 2016, , .		30
79	Signal processing on graphs: Performance of graph structure estimation. , 2016, , .		3
80	Coherent, data-driven Lamb wave localization under environmental variations. AIP Conference Proceedings, 2015, , .	0.4	1
81	Multilevel distributed approach for DC Optimal Power Flow. , 2015, , .		5
82	Sufficient condition for survival of the fittest in a bi-virus epidemics. , 2015, , .		0
83	Non-intrusive load monitoring: A power consumption based relaxation. , 2015, , .		0
84	Dispersion curve recovery with orthogonal matching pursuit. Journal of the Acoustical Society of America, 2015, 137, EL1-EL7.	1.1	30
85	Individual vs. network preferences. , 2015, , .		0
86	Signal processing on graphs: Estimating the structure of a graph. , 2015, , .		28
87	Fitting graph models to big data. , 2015, , .		0
88	Taxi data in New York city: A network perspective. , 2015, , .		15
89	Role of subgraphs in epidemics over finite-size networks under the scaled SIS process. Journal of Complex Networks, 2015, 3, 584-605.	1.8	8
90	Distributed Kalman Filtering Over Massive Data Sets: Analysis Through Large Deviations of Random Riccati Equations. IEEE Transactions on Information Theory, 2015, 61, 1351-1372.	2.4	40

#	ARTICLE	IF	CITATIONS
91	Bi-Virus SIS Epidemics over Networks: Qualitative Analysis. IEEE Transactions on Network Science and Engineering, 2015, 2, 17-29.	6.4	29
92	Linear Convergence Rate of a Class of Distributed Augmented Lagrangian Algorithms. IEEE Transactions on Automatic Control, 2015, 60, 922-936.	5.7	83
93	Cyber-physical systems: Dynamic sensor attacks and strong observability. , 2015, , .		32
94	Signal Recovery on Graphs: Variation Minimization. IEEE Transactions on Signal Processing, 2015, 63, 4609-4624.	5.3	185
95	Linear Theory for Self-Localization: Convexity, Barycentric Coordinates, and Cayley's Determinants. IEEE Access, 2015, 3, 1326-1339.	4.2	17
96	Data-driven and calibration-free lamb wave source localization with sparse sensor arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1516-1529.	3.0	15
97	Distributed Kalman Filtering With Dynamic Observations Consensus. IEEE Transactions on Signal Processing, 2015, 63, 4458-4473.	5.3	127
98	A Spatial Analysis of Occupant Energy Efficiency by Discrete Signal Processing on Graphs. , 2015, , .		0
99	Subgraph density and epidemics over networks. , 2014, , .		3
100	Data-driven matched field processing for Lamb wave structural health monitoring. Journal of the Acoustical Society of America, 2014, 135, 1231-1244.	1.1	68
101	Dynamic bond percolation in networks. , 2014, , .		0
102	Signal denoising on graphs via graph filtering. , 2014, , .		99
103	Signal inpainting on graphs via total variation minimization. , 2014, , .		31
104	Distributed Nesterov gradient methods for random networks: Convergence in probability and convergence rates. , 2014, , .		0
105	Fast Distributed Gradient Methods. IEEE Transactions on Automatic Control, 2014, 59, 1131-1146.	5.7	419
106	Distributed State Estimation and Energy Management in Smart Grids: A Consensus-Innovations Approach. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1022-1038.	10.8	191
107	Diffusion in Social Networks as SIS Epidemics: Beyond Full Mixing and Complete Graphs. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 537-551.	10.8	27
108	Churn detection in large user networks. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
109	Finite-time distributed consensus through graph filters. , 2014, , .		79
110	Discrete Signal Processing on Graphs: Frequency Analysis. IEEE Transactions on Signal Processing, 2014, 62, 3042-3054.	5.3	635
111	Big Data Analysis with Signal Processing on Graphs: Representation and processing of massive data sets with irregular structure. IEEE Signal Processing Magazine, 2014, 31, 80-90.	5.6	569
112	Asymptotically Efficient Distributed Estimation With Exponential Family Statistics. IEEE Transactions on Information Theory, 2014, 60, 4811-4831.	2.4	18
113	Big Data + Big Cities: Graph Signals of Urban Air Pollution [Exploratory SP]. IEEE Signal Processing Magazine, 2014, 31, 130-136.	5.6	31
114	Convergence Rates of Distributed Nesterov-Like Gradient Methods on Random Networks. IEEE Transactions on Signal Processing, 2014, 62, 868-882.	5.3	32
115	An efficient method to detect periodic behavior in botnet traffic by analyzing control plane traffic. Journal of Advanced Research, 2014, 5, 435-448.	9.5	36
116	Ultrasonic scatterer detection in a pipe under operating conditions using singular value decomposition. , 2013, , .		1
117	Q -Learning: A Collaborative Distributed Strategy for Multi-Agent Reinforcement Learning Through m Consensus + m Innovations. IEEE Transactions on Signal Processing, 2013, 61, 1848-1862.	5.3	112
118	The Discipline of Signal Processing [Reflections]. IEEE Signal Processing Magazine, 2013, 30, 174-176.	5.6	3
119	Distributed Kalman filtering and Network Tracking Capacity. , 2013, , .		5
120	Adaptive graph filtering: Multiresolution classification on graphs. , 2013, , .		21
121	Distributed state estimation in multi-agent networks. , 2013, , .		17
122	Gaussian Target Detection in Multipath Clutter With Single-Antenna Time Reversal. IEEE Transactions on Signal Processing, 2013, 61, 3733-3744.	5.3	14
123	Consensus and Products of Random Stochastic Matrices: Exact Rate for Convergence in Probability. IEEE Transactions on Signal Processing, 2013, 61, 2557-2571.	5.3	23
124	Discrete Signal Processing on Graphs. IEEE Transactions on Signal Processing, 2013, 61, 1644-1656.	5.3	1,146
125	Discrete signal processing on graphs: Graph fourier transform. , 2013, , .		77
126	Distributed reinforcement learning in multi-agent networks. , 2013, , .		10

#	ARTICLE	IF	CITATIONS
127	Graph sampling: Estimation of degree distributions. , 2013, , .		4
128	Delay-and-sum technique for localization of active sources in cylindrical objects. AIP Conference Proceedings, 2013, , .	0.4	1
129	Sparse recovery of the multimodal and dispersive characteristics of Lamb waves. Journal of the Acoustical Society of America, 2013, 133, 2732-2745.	1.1	128
130	Distributed Linear Parameter Estimation: Asymptotically Efficient Adaptive Strategies. SIAM Journal on Control and Optimization, 2013, 51, 2200-2229.	2.1	62
131	On a consistent procedure for distributed recursive nonlinear least-squares estimation. , 2013, , .		1
132	Discrete signal processing on graphs: Graph filters. , 2013, , .		59
133	Distributed augmented Lagrangian algorithms: Convergence rate. , 2013, , .		3
134	Classification via regularization on graphs. , 2013, , .		41
135	Decomposition of multipath Lamb waves with sparse wavenumber analysis for structural health monitoring. , 2013, , .		0
136	Threshold behavior of epidemics in regular networks. , 2013, , .		4
137	Distributed linear estimation of dynamic random fields. , 2013, , .		4
138	Broadband localization in a dispersive medium through sparse wavenumber analysis. , 2013, , .		12
139	Consensus + innovations distributed inference over networks: cooperation and sensing in networked systems. IEEE Signal Processing Magazine, 2013, 30, 99-109.	5.6	150
140	Ultrasonic Monitoring of a Pressurized Pipe in Operation. , 2013, , .		4
141	Application of Mellin transform features for robust ultrasonic guided wave structural health monitoring. AIP Conference Proceedings, 2012, , .	0.4	14
142	Exact rate for convergence in probability of averaging processes via generalized min-cut. , 2012, , .		3
143	Accounting for topology in spreading contagion in non-complete networks. , 2012, , .		7
144	Nearest-neighbor image model. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
145	Robust change detection in highly dynamic guided wave signals with singular value decomposition. , 2012, , .		10
146	Large Deviations Performance of Consensus+Innovations Distributed Detection With Non-Gaussian Observations. IEEE Transactions on Signal Processing, 2012, 60, 5987-6002.	5.3	45
147	Maximum likelihood defect localization in a pipe using guided acoustic waves. , 2012, , .		0
148	Feature matching in growing databases. , 2012, , .		2
149	Diffusion and topology: Large densely connected bipartite networks. , 2012, , .		0
150	Distributed field reconstruction with model-robust basis pursuit. , 2012, , .		5
151	Accurate sparse recovery of guided wave characteristics for structural health monitoring. , 2012, , .		9
152	Moderate Deviations of a Random Riccati Equation. IEEE Transactions on Automatic Control, 2012, 57, 2250-2265.	5.7	6
153	The complex Double Gaussian distribution. , 2012, , .		5
154	Consensus+innovations detection: Phase transition under communication noise. , 2012, , .		2
155	Compressed sensing radar surveillance networks. , 2012, , .		2
156	Scale transform signal processing for optimal ultrasonic temperature compensation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2226-36.	3.0	92
157	Finding Non-Overlapping Clusters for Generalized Inference Over Graphical Models. IEEE Transactions on Signal Processing, 2012, 60, 6368-6381.	5.3	2
158	Ultrasonic monitoring of a pipe under operating conditions. Proceedings of SPIE, 2012, , .	0.8	9
159	Event detection for Non Intrusive load monitoring. , 2012, , .		140
160	On the Product of Independent Complex Gaussians. IEEE Transactions on Signal Processing, 2012, 60, 1050-1063.	5.3	110
161	Distributed Detection Over Noisy Networks: Large Deviations Analysis. IEEE Transactions on Signal Processing, 2012, 60, 4306-4320.	5.3	52
162	Kalman Filtering With Intermittent Observations: Weak Convergence to a Stationary Distribution. IEEE Transactions on Automatic Control, 2012, 57, 405-420.	5.7	120

#	ARTICLE	IF	CITATIONS
163	Distributed Nesterov-like gradient algorithms. , 2012, , .		17
164	Convergence rate analysis of distributed gradient methods for smooth optimization. , 2012, , .		3
165	Fast cooperative distributed learning. , 2012, , .		2
166	Distributed Parameter Estimation in Sensor Networks: Nonlinear Observation Models and Imperfect Communication. IEEE Transactions on Information Theory, 2012, 58, 3575-3605.	2.4	327
167	Approximating image filters with box filters. , 2011, , .		11
168	Necessary conditions for consistent set-based graphical model selection. , 2011, , .		6
169	Large deviations analysis of consensus+innovations detection in random networks. , 2011, , .		4
170	Noncoherent compressive sensing with application to distributed radar. , 2011, , .		17
171	Distributed Detection via Gaussian Running Consensus: Large Deviations Asymptotic Analysis. IEEE Transactions on Signal Processing, 2011, 59, 4381-4396.	5.3	82
172	Gossip and Distributed Kalman Filtering: Weak Consensus Under Weak Detectability. IEEE Transactions on Signal Processing, 2011, 59, 1766-1784.	5.3	138
173	Cooperative Convex Optimization in Networked Systems: Augmented Lagrangian Algorithms With Directed Gossip Communication. IEEE Transactions on Signal Processing, 2011, 59, 3889-3902.	5.3	97
174	Direction finding algorithms for time reversal MIMO radars. , 2011, , .		13
175	Study of pilot designs for cyclic-prefix OFDM on time-varying and sparse underwater acoustic channels. , 2011, , .		23
176	A hybrid MMSE approach to channel shortening for underwater acoustic OFDM. , 2011, , .		2
177	Convergence Rate Analysis of Distributed Gossip (Linear Parameter) Estimation: Fundamental Limits and Tradeoffs. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 674-690.	10.8	187
178	Time Reversal Detection in Clutter: Additional Experimental Results. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 140-154.	4.7	19
179	Telescoping Recursive Representations and Estimation of Gaussâ€™Markov Random Fields. IEEE Transactions on Information Theory, 2011, 57, 1645-1663.	2.4	12
180	Guided wave temperature compensation with the scale-invariant correlation coefficient. , 2011, , .		6

#	ARTICLE	IF	CITATIONS
181	Global emergent behaviors in clouds of agents. , 2011, , .		3
182	Emergent behavior in large scale networks. , 2011, , .		7
183	Detection of targets embedded in multipath clutter with Time Reversal. , 2011, , .		3
184	Convergence results in distributed Kalman filtering. , 2011, , .		6
185	Scalable robust hypothesis tests using graphical models. , 2011, , .		2
186	Asymptotic performance of distributed detection over random networks. , 2011, , .		3
187	Sea-trial results for cyclic-prefix OFDM with long symbol duration. , 2011, , .		10
188	Study of pilot overhead for iterative OFDM receivers on time-varying and sparse underwater acoustic channels. , 2011, , .		4
189	Cognitive sensor networks for structure defect monitoring and classification using guided wave signals. , 2010, , .		2
190	Modeling of Future Cyber-Physical Energy Systems for Distributed Sensing and Control. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 825-838.	2.9	238
191	Linear Time Encoding of LDPC Codes. IEEE Transactions on Information Theory, 2010, 56, 233-249.	2.4	19
192	Gossip Algorithms for Distributed Signal Processing. Proceedings of the IEEE, 2010, 98, 1847-1864.	21.3	659
193	Time Reversal in Multiple-Input Multiple-Output Radar. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 210-225.	10.8	85
194	A random dynamical systems approach to filtering in large-scale networks. , 2010, , .		2
195	Single antenna time reversal detection of moving target. , 2010, , .		18
196	On connectivity, observability, and stability in distributed estimation. , 2010, , .		69
197	DILAND: An Algorithm for Distributed Sensor Localization With Noisy Distance Measurements. IEEE Transactions on Signal Processing, 2010, 58, 1940-1947.	5.3	139
198	Reciprocal fields: A model for random fields pinned to two boundaries. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
199	Distributed detection over time varying networks: Large deviations analysis. , 2010, , .		5
200	Sample path large deviations for the randomly sampled continuous-discrete Kalman filter. , 2010, , .		1
201	Consensus in correlated random topologies: Weights for finite time horizon. , 2010, , .		2
202	A telescoping approach to recursive enhancement of noisy images. , 2010, , .		7
203	Time reversal for damage detection in pipes. , 2010, , .		6
204	Higher Dimensional Consensus: Learning in Large-Scale Networks. IEEE Transactions on Signal Processing, 2010, 58, 2836-2849.	5.3	39
205	Weight Optimization for Consensus Algorithms With Correlated Switching Topology. IEEE Transactions on Signal Processing, 2010, 58, 3788-3801.	5.3	49
206	Distributed Consensus Algorithms in Sensor Networks: Quantized Data and Random Link Failures. IEEE Transactions on Signal Processing, 2010, 58, 1383-1400.	5.3	352
207	Time reversal adaptive waveform in MIMO radar. , 2010, , .		8
208	Time reversal beamforming of guided waves in pipes with a single defect. , 2010, , .		5
209	Designing the parameters of high dimensional consensus: Multi-objective optimization and pareto-optimality. , 2010, , .		0
210	A mixed time-scale algorithm for distributed parameter estimation : Nonlinear observation models and imperfect communication. , 2009, , .		10
211	A distributed sensor fusion algorithm for the inversion of sparse fields. , 2009, , .		6
212	Shapes as empirical distributions. , 2009, , .		1
213	Recursive filtering and smoothing for discrete index gaussian reciprocal processes. , 2009, , .		17
214	Field inversion by consensus and compressed sensing. , 2009, , .		5
215	Higher dimensional consensus algorithms in sensor networks. , 2009, , .		7
216	Detecting Botnets Using Command and Control Traffic. , 2009, , .		39

#	ARTICLE	IF	CITATIONS
217	Distributed Sensor Localization in Random Environments Using Minimal Number of Anchor Nodes. IEEE Transactions on Signal Processing, 2009, 57, 2000-2016.	5.3	270
218	Recursive filtering and smoothing for Gaussian reciprocal processes with continuous indices. , 2009, , .		2
219	[president's MESSAGE] Lend an ear“Or Was That Bend an Ear?. IEEE Signal Processing Magazine, 2009, 26, 4-4.	5.6	0
220	A Positive Future [President's Message]. IEEE Signal Processing Magazine, 2009, 26, 4-4.	5.6	1
221	A New Point of View [President's Message]. IEEE Signal Processing Magazine, 2009, 26, 6-6.	5.6	0
222	A long, hot summer of our discontent [President's message]. IEEE Signal Processing Magazine, 2009, 26, 6-6.	5.6	0
223	Discrete fourier transform on multicore. IEEE Signal Processing Magazine, 2009, 26, 90-102.	5.6	60
224	What is signal processing? [President's Message. IEEE Signal Processing Magazine, 2009, 26, 6-6.	5.6	11
225	Dynamic Field Estimation Using Wireless Sensor Networks: Tradeoffs Between Estimation Error and Communication Cost. IEEE Transactions on Signal Processing, 2009, 57, 2383-2395.	5.3	48
226	Experimental study of extended target imaging by time reversal SAR. , 2009, , .		3
227	Periodic Behavior in Botnet Command and Control Channels Traffic. , 2009, , .		24
228	Distributed localization and tracking with coordinated and uncoordinated motion models. , 2009, , .		8
229	Asymptotic noise analysis of high dimensional consensus. , 2009, , .		0
230	Where algebra meets signal processing: Generating SW/HW implementations of algorithms. , 2009, , .		0
231	Distributed sensor localization using barycentric coordinates. , 2009, , .		1
232	Detection of structural defects in pipes using time reversal of guided waves. , 2009, , .		10
233	High-performance synthetic aperture radar image formation on commodity multicore architectures. Proceedings of SPIE, 2009, , .	0.8	6
234	Automatic Detection of Regional Heart Rejection in USPIO-Enhanced MRI. IEEE Transactions on Medical Imaging, 2008, 27, 1095-1106.	8.9	14

#	ARTICLE	IF	CITATIONS
235	Opening New Doors; Closing Others [President's Message]. IEEE Signal Processing Magazine, 2008, 25, 6-150.	5.6	0
236	Far and Near [President's Message]. IEEE Signal Processing Magazine, 2008, 25, 6-6.	5.6	0
237	A look at the Technical Activities Board [President's Message]. IEEE Signal Processing Magazine, 2008, 25, 6-13.	5.6	0
238	Shopping for a new suit? Try it on! [President's Message]. IEEE Signal Processing Magazine, 2008, 25, 6-6.	5.6	0
239	Algebraic Signal Processing Theory: Cooley-Tukey Type Algorithms for DCTs and DSTs. IEEE Transactions on Signal Processing, 2008, 56, 1502-1521.	5.3	72
240	Topology for Distributed Inference on Graphs. IEEE Transactions on Signal Processing, 2008, 56, 2609-2613.	5.3	77
241	Future Opportunities [President's Message]. IEEE Signal Processing Magazine, 2008, 25, 4-4.	5.6	3
242	Breast cancer detection by time reversal imaging. , 2008, , .		4
243	Time Reversal Imaging by Adaptive Interference Canceling. IEEE Transactions on Signal Processing, 2008, 56, 233-247.	5.3	54
244	Sensor Networks With Random Links: Topology Design for Distributed Consensus. IEEE Transactions on Signal Processing, 2008, 56, 3315-3326.	5.3	209
245	Flexible Host-Based Handoff Selection for Next Generation Networks. , 2008, , .		1
246	Algebraic Signal Processing Theory: Foundation and 1-D Time. IEEE Transactions on Signal Processing, 2008, 56, 3572-3585.	5.3	120
247	Cooperation for aggregating complex electric power networks to ensure system observability. , 2008, , .		11
248	Algebraic Signal Processing Theory: 1-D Space. IEEE Transactions on Signal Processing, 2008, 56, 3586-3599.	5.3	85
249	Large deviations for many server networks with long range dependent and batch arrivals. , 2008, , .		0
250	Distributed sensor localization in Euclidean spaces: Dynamic environments. , 2008, , .		16
251	Sensor Andrew: Ubiquitous wide campus sensing exploitation. , 2008, , .		1
252	Distributing the Kalman Filter for Large-Scale Systems. IEEE Transactions on Signal Processing, 2008, 56, 4919-4935.	5.3	408

#	ARTICLE	IF	CITATIONS
253	Modeling future cyber-physical energy systems. , 2008, , .		71
254	Position location by time reversal in communication networks. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	3
255	LASIC: A model invariant framework for correspondence. , 2008, , .		3
256	Adaptive time reversal beamforming in dense multipath communication networks. , 2008, , .		7
257	Distributed iterate-collapse inversion (DICI) algorithm for L-banded matrices. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	8
258	A linear iterative algorithm for distributed sensor localization. , 2008, , .		3
259	Network traffic behavior analysis by decomposition into control and data planes. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	8
260	Distributed average consensus in sensor networks with quantized inter-sensor communication. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	16
261	Distributed linear parameter estimation in sensor networks: Convergence properties. , 2008, , .		9
262	Domain-specific library generation for parallel software and hardware platforms. , 2008, , .		11
263	Signal-domain registration for change detection in Time-Reversal SAR. , 2008, , .		4
264	TR-SAR: Time Reversal Target Focusing in Spotlight SAR. , 2007, , .		14
265	Distributed Kalman Filters in Sensor Networks: Bipartite Fusion Graphs. , 2007, , .		23
266	Multiple Antenna Time Reversal Transmission in Ultra-Wideband Communications. , 2007, , .		17
267	Generating FPGA-Accelerated DFT Libraries. , 2007, , .		23
268	Time Reversal Transmission in MIMO Radar. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	0
269	Time Reversal Synthetic Aperture Radar Imaging In Multipath. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	9
270	Joint Segmentation of Moving Object and Estimation of Background in Low-Light Video using Relaxation. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
271	Classification by Cheeger Constant Regularization. , 2007, , .		2
272	Distributed Average Consensus in Sensor Networks with Random Link Failures. , 2007, , .		48
273	Time Reversal Beamforming for Microwave Breast Cancer Detection. , 2007, , .		7
274	Distributed Average Consensus in Sensor Networks with Random Link Failures and Communication Channel Noise. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	22
275	Model Distribution for Distributed Kalman Filters: A Graph Theoretic Approach. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	9
276	Diffusion Map Approach to Classifying Early Stage Cardiac Dysfunction. , 2007, , .		0
277	Time Reversal Target Classification from Scattered Radiation. , 2007, , .		2
278	Detection by Time Reversal: Single Antenna. IEEE Transactions on Signal Processing, 2007, 55, 187-201.	5.3	134
279	TS-LDPC Codes: Turbo-Structured Codes With Large Girth. IEEE Transactions on Information Theory, 2007, 53, 1080-1094.	2.4	12
280	Time Reversal Matched Field Processing: An Analytical Justification. , 2006, , .		4
281	Topology for Global Average Consensus. , 2006, , .		22
282	Immune Cells Detection of the In Vivo Rejecting Heart in USPIO-Enhanced Magnetic Resonance Imaging. , 2006, 2006, 942-5.		4
283	Structured LDPC codes for high-density recording: large girth and low error floor. IEEE Transactions on Magnetics, 2006, 42, 208-213.	2.1	50
284	Asymptotic Noise Analysis of Time Reversal Detection. , 2006, , .		4
285	Immune Cells Detection of the In Vivo Rejecting Heart in USPIO-Enhanced Magnetic Resonance Imaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
286	Partition-and-shift LDPC codes. IEEE Transactions on Magnetics, 2005, 41, 2977-2979.	2.1	14
287	Block matrices with L-block-banded inverse: inversion algorithms. IEEE Transactions on Signal Processing, 2005, 53, 630-642.	5.3	48
288	Figure-ground segmentation from occlusion. IEEE Transactions on Image Processing, 2005, 14, 1109-1124.	9.8	12

#	ARTICLE	IF	CITATIONS
289	Affine-permutation invariance of 2-D shapes. IEEE Transactions on Image Processing, 2005, 14, 1687-1700.	9.8	20
290	STACS: new active contour scheme for cardiac MR image segmentation. IEEE Transactions on Medical Imaging, 2005, 24, 593-603.	8.9	205
291	Fusion in sensor networks with communication constraints. , 2004, , .		51
292	Special issue on computer algebra and signal processing: forward by the guest editors. Journal of Symbolic Computation, 2004, 37, 133-135.	0.8	0
293	Structured low-density parity-check codes. IEEE Signal Processing Magazine, 2004, 21, 42-55.	5.6	53
294	Contrast-Invariant Registration of Cardiac and Renal MR Perfusion Images. Lecture Notes in Computer Science, 2004, , 903-910.	1.3	16
295	Improving spatiotemporal resolution of USPIO-enhanced dynamic imaging of rat kidneys. Magnetic Resonance Imaging, 2003, 21, 593-598.	1.8	12
296	The Algebraic Approach to the Discrete Cosine and Sine Transforms and Their Fast Algorithms. SIAM Journal on Computing, 2003, 32, 1280-1316.	1.0	89
297	Rank 1 weighted factorization for 3D structure recovery: Algorithms and performance analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 1134-1149.	13.9	27
298	Fast inversion of L-block banded matrices and their inverses. , 2002, , .		4
299	In vivo detection of acute rat renal allograft rejection by MRI with USPIO particles. Kidney International, 2002, 61, 1124-1135.	5.2	69
300	Efficient detection in hyperspectral imagery. IEEE Transactions on Image Processing, 2001, 10, 584-597.	9.8	119
301	Closed-form correlative coding (CFC/sub 2/) blind identification of MIMO channels: isometry fitting to second order statistics. IEEE Transactions on Signal Processing, 2001, 49, 1073-1086.	5.3	25
302	Three-dimensional modeling from two-dimensional video. IEEE Transactions on Image Processing, 2001, 10, 1541-1551.	9.8	17
303	USPIO-enhanced dynamic MRI: Evaluation of normal and transplanted rat kidneys. Magnetic Resonance in Medicine, 2001, 46, 1152-1163.	3.0	62
304	Multiframe detector/tracker: optimal performance. IEEE Transactions on Aerospace and Electronic Systems, 2001, 37, 925-945.	4.7	53
305	Maximum Likelihood Estimation of the Template of a Rigid Moving Object. Lecture Notes in Computer Science, 2001, , 34-49.	1.3	5
306	Performance analysis of the adaptive GMRF anomaly detector for hyperspectral imagery. , 2000, , .		0

#	ARTICLE	IF	CITATIONS
307	The Viterbi algorithm and Markov noise memory. IEEE Transactions on Information Theory, 2000, 46, 291-301.	2.4	139
308	Hyperspectral imagery: clutter adaptation in anomaly detection. IEEE Transactions on Information Theory, 2000, 46, 1855-1871.	2.4	109
309	Matrices with banded inverses: inversion algorithms and factorization of Gauss-Markov processes. IEEE Transactions on Information Theory, 2000, 46, 1495-1509.	2.4	72
310	Introduction to the special issue on information-theoretic imaging. IEEE Transactions on Information Theory, 2000, 46, 1709-1713.	2.4	0
311	A good read. IEEE Transactions on Speech and Audio Processing, 2000, 8, 645-645.	1.5	0
312	Data assimilation in large time-varying multidimensional fields. IEEE Transactions on Image Processing, 1999, 8, 1593-1607.	9.8	17
313	Capture and representation of human walking in live video sequences. IEEE Transactions on Multimedia, 1999, 1, 144-156.	7.2	32
314	Matching wavelet packets to Gaussian random processes. IEEE Transactions on Signal Processing, 1999, 47, 1604-1614.	5.3	2
315	Automatic Recognition of Human Walking in Monocular Image Sequences. Journal of Signal Processing Systems, 1998, 20, 107-120.	1.0	10
316	Correlation-sensitive adaptive sequence detection. IEEE Transactions on Magnetics, 1998, 34, 763-771.	2.1	40
317	Video representation with three-dimensional entities. IEEE Journal on Selected Areas in Communications, 1998, 16, 71-85.	14.0	9
318	Closed-form blind channel identification and source separation in SDMA systems through correlative coding. IEEE Journal on Selected Areas in Communications, 1998, 16, 1506-1517.	14.0	27
319	Ambiguity in radar and sonar. IEEE Transactions on Signal Processing, 1998, 46, 294-305.	5.3	40
320	Blind array channel division multiple access (AChDMA) for mobile communications. IEEE Transactions on Signal Processing, 1998, 46, 737-752.	5.3	22
321	Focused detection via multiresolution analysis. IEEE Transactions on Signal Processing, 1998, 46, 1094-1104.	5.3	5
322	DCT/DST and Gauss-Markov fields: conditions for equivalence. IEEE Transactions on Signal Processing, 1998, 46, 2571-2574.	5.3	19
323	Experimental validation of the triangle zig-zag transition model. IEEE Transactions on Magnetics, 1997, 33, 2704-2706.	2.1	4
324	<title>3D-3D registration of free-formed objects using shape and texture</title>. , 1997, , .		3

#	ARTICLE	IF	CITATIONS
325	Focusing in Synthetic Aperture Radar by Multiresolution Methods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 531-536.	0.4	0
326	Robust detection with the gap metric. IEEE Transactions on Signal Processing, 1997, 45, 1591-1604.	5.3	12
327	The Wheeler Legacy. IEEE Signal Processing Magazine, 1997, 14, 102-105.	5.6	0
328	Gauss-Markov random fields (CMrf) with continuous indices. IEEE Transactions on Information Theory, 1997, 43, 1560-1573.	2.4	15
329	Statistical study of zig-zag transition boundaries in longitudinal digital magnetic recording. IEEE Transactions on Magnetics, 1997, 33, 4482-4491.	2.1	12
330	On Translation Invariant Subspaces and Critically Sampled Wavelet Transforms. Multidimensional Systems and Signal Processing, 1997, 8, 89-110.	2.6	9
331	Noncausal predictive image codec. IEEE Transactions on Image Processing, 1996, 5, 1229-1242.	9.8	14
332	Image codec by noncausal prediction, residual mean removal, and cascaded VQ. IEEE Transactions on Circuits and Systems for Video Technology, 1996, 6, 42-55.	8.3	13
333	<title>Scalable video coding over heterogeneous networks</title>. , 1996, 2602, 294.		11
334	Expedient media noise modeling: isolated and interacting transitions. IEEE Transactions on Magnetics, 1996, 32, 3875-3877.	2.1	8
335	<title>Robust detection via subspace design</title>. , 1996, , .		1
336	<title>Triangle zigzag transition modeling</title>. , 1995, , .		1
337	Acquisition in phase demodulation: application to ranging in radar/sonar systems. IEEE Transactions on Aerospace and Electronic Systems, 1995, 31, 581-599.	4.7	22
338	l_2 and l_1 beamformers: recursive implementation and performance analysis. IEEE Transactions on Signal Processing, 1994, 42, 1323-1334.	5.3	6
339	Noncausal Gauss Markov random fields: parameter structure and estimation. IEEE Transactions on Information Theory, 1993, 39, 1333-1355.	2.4	70
340	Recursive structure of noncausal Gauss-Markov random fields. IEEE Transactions on Information Theory, 1992, 38, 334-354.	2.4	102
341	Multisource delay estimation: nonstationary signals (underwater acoustics). IEEE Transactions on Signal Processing, 1991, 39, 1033-1048.	5.3	7
342	LD_2 -ARMA identification algorithm. IEEE Transactions on Signal Processing, 1991, 39, 1822-1835.	5.3	13

#	ARTICLE	IF	CITATIONS
343	Cramer-Rao bound for location systems in multipath environments. IEEE Transactions on Signal Processing, 1991, 39, 2593-2610.	5.3	52
344	Detection and characterization of exchangeable protons bound to the hydrogen-activation nickel site of <i>Desulfovibrio gigas</i> hydrogenase: a proton and deuterium Q-band ENDOR study. Journal of the American Chemical Society, 1991, 113, 20-24.	13.7	135
345	Rapid enhancement and compression of image data. , 1991, , .		2
346	Magnetic recording channel model with intertrack interference. IEEE Transactions on Magnetics, 1991, 27, 4834-4836.	2.1	17
347	Alternate bounds on the resolvability constraints of spatial smoothing. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1989, 37, 949-952.	2.0	1
348	Threshold Extension by Nonlinear Techniques. , 1989, , 433-452.		8
349	Phase unwrapping of signals propagated under the Arctic ice crust: a statistical approach. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1988, 36, 617-630.	2.0	20
350	ARMA identification. Journal of Optimization Theory and Applications, 1987, 55, 345-357.	1.5	5
351	Optimal filtering in the presence of multipath. , 1986, , 64-94.		11
352	Range and Bearing Determination: Maximum Likelihood and Kalman-Bucy Techniques. , 1985, , 217-233.		0
353	A Monte Carlo study of absolute phase determination. IEEE Transactions on Information Theory, 1983, 29, 509-520.	2.4	3
354	A spatial smoothing formulation for location systems. IEEE Journal of Oceanic Engineering, 1983, 8, 148-162.	3.8	3
355	Phase Demodulation: A Nonlinear Filtering Approach. , 1983, , 347-386.		1
356	Geometric Aspects in Array Processing. , 1983, , 139-154.		1
357	The hybrid algorithm: A solution to acquisition and tracking. Journal of the Acoustical Society of America, 1981, 69, 1663-1672.	1.1	12
358	Passive systems theory with narrow-band and linear constraints: Part II - Temporal diversity. IEEE Journal of Oceanic Engineering, 1979, 4, 19-30.	3.8	24
359	Passive systems theory with narrow-band and linear constraints: Part III - Spatial/Temporal diversity. IEEE Journal of Oceanic Engineering, 1979, 4, 113-119.	3.8	28
360	Passive systems theory with narrow-band and linear constraints: Part I - Spatial diversity. IEEE Journal of Oceanic Engineering, 1978, 3, 5-13.	3.8	26

#	ARTICLE	IF	CITATIONS
361	Saddlepoint Approximation for Sensor Network Optimization. , 0 , , .		12
362	Single Antenna Time reversal Adaptive Interference Cancellation. , 0 , , .		10