

# Qun Wan

## List of Publications by Year in descending order

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162  
papers

1,572  
citations

361045

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344852

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162  
all docs

162  
docs citations

162  
times ranked

1186  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Simple and Accurate TDOA-AOA Localization Method Using Two Stations. IEEE Signal Processing Letters, 2016, 23, 144-148.	2.1	175
2	Multidimensional Scaling Analysis for Passive Moving Target Localization With TDOA and FDOA Measurements. IEEE Transactions on Signal Processing, 2010, 58, 1677-1688.	3.2	112
3	Solution and Analysis of TDOA Localization of a Near or Distant Source in Closed Form. IEEE Transactions on Signal Processing, 2019, 67, 320-335.	3.2	108
4	Improved MUSIC Algorithm for Multiple Noncoherent Subarrays. IEEE Signal Processing Letters, 2014, 21, 527-530.	2.1	67
5	Asynchronous Time-of-Arrival-Based Source Localization With Sensor Position Uncertainties. IEEE Communications Letters, 2016, 20, 1860-1863.	2.5	55
6	Collaborative Beamforming for Wireless Sensor Networks with Arbitrary Distributed Sensors. IEEE Communications Letters, 2012, 16, 1118-1120.	2.5	47
7	Semidefinite Programming Methods for Alleviating Sensor Position Error in TDOA Localization. IEEE Access, 2017, 5, 23111-23120.	2.6	44
8	A Supplement to Multidimensional Scaling Framework for Mobile Location: A Unified View. IEEE Transactions on Signal Processing, 2009, 57, 2030-2034.	3.2	43
9	Source Association, DOA, and Fading Coefficients Estimation for Multipath Signals. IEEE Transactions on Signal Processing, 2017, 65, 2773-2786.	3.2	43
10	Joint Synchronization and Localization in Wireless Sensor Networks Using Semidefinite Programming. IEEE Internet of Things Journal, 2018, 5, 199-205.	5.5	42
11	Eigenspace Solution for AOA Localization in Modified Polar Representation. IEEE Transactions on Signal Processing, 2020, 68, 2256-2271.	3.2	38
12	Calibrating the error from sensor position uncertainty in TDOA-AOA localization. Signal Processing, 2020, 166, 107213.	2.1	33
13	Cyclic Feature-Based Modulation Recognition Using Compressive Sensing. IEEE Wireless Communications Letters, 2017, 6, 402-405.	3.2	31
14	Sparse signal recovery with OMP algorithm using sensing measurement matrix. IEICE Electronics Express, 2011, 8, 285-290.	0.3	30
15	Wireless Sensor Network-Based Localization Method Using TDOA Measurements in MPR. IEEE Sensors Journal, 2019, 19, 3741-3750.	2.4	29
16	DL-RNN: An Accurate Indoor Localization Method via Double RNNs. IEEE Sensors Journal, 2020, 20, 286-295.	2.4	29
17	An Iterative Method for Moving Target Localization Using TDOA and FDOA Measurements. IEEE Access, 2018, 6, 2746-2754.	2.6	26
18	MRF model-based joint interrupted SAR imaging and coherent change detection via variational Bayesian inference. Signal Processing, 2018, 151, 144-154.	2.1	25

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19	Low-complexity 2D coherently distributed sources decoupled DOAs estimation method. Science in China Series F: Information Sciences, 2009, 52, 835-842.	1.1	21
20	Frequency Estimation of Sinusoidal Signals in Multiplicative and Additive Noise. IEEE Journal of Oceanic Engineering, 2016, 41, 810-819.	2.1	21
21	Source localization using a sparse representation framework to achieve superresolution. Multidimensional Systems and Signal Processing, 2010, 21, 391-402.	1.7	20
22	Analysis of TDOA and TDOA/SS based geolocation techniques in a non-line-of-sight environment. Journal of Communications and Networks, 2012, 14, 533-539.	1.8	20
23	Robust Capon beamforming exploiting the second-order noncircularity of signals. Signal Processing, 2014, 102, 100-111.	2.1	20
24	DOA and Gain-Phase Errors Estimation for Noncircular Sources With Central Symmetric Array. IEEE Sensors Journal, 2017, 17, 3068-3078.	2.4	19
25	Direct TDOA geolocation of multiple frequency-hopping emitters in flat fading channels. IET Signal Processing, 2017, 11, 80-85.	0.9	19
26	Sidelobe Suppression for Blind Adaptive Beamforming with Sparse Constraint. IEEE Communications Letters, 2011, 15, 343-345.	2.5	17
27	Sidelobe Suppression for Robust Capon Beamforming With Mainlobe-to-Sidelobe Power Ratio Maximization. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1218-1221.	2.4	17
28	Closed-Form Localization Method for Moving Target in Passive Multistatic Radar Network. IEEE Sensors Journal, 2020, 20, 980-990.	2.4	17
29	Support Vector Regression for Basis Selection in Laplacian Noise Environment. IEEE Signal Processing Letters, 2007, 14, 871-874.	2.1	16
30	Maximum likelihood and signal-selective TDOA estimation for noncircular signals. Journal of Communications and Networks, 2013, 15, 245-251.	1.8	15
31	Multidimensional scaling-based passive emitter localisation from time difference of arrival measurements with sensor position uncertainties. IET Signal Processing, 2017, 11, 43-50.	0.9	14
32	Robust approach for channel estimation in power line communication. Journal of Communications and Networks, 2012, 14, 237-242.	1.8	13
33	DOA Estimation Using Single or Dual Reception Channels Based on Cyclostationarity. IEEE Access, 2019, 7, 54787-54795.	2.6	13
34	High Resolution Direct Detection and Position Determination of Sources With Intermittent Emission. IEEE Access, 2019, 7, 43428-43437.	2.6	13
35	A Novel 3-D Localization Scheme Using 1-D Angle Measurements. , 2020, 4, 1-4.		13
36	Comments on "The Cramer-Rao Bounds of Hybrid TOA/RSS and TDOA/RSS Location Estimation Schemes". IEEE Communications Letters, 2007, 11, 848-849.	2.5	12

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37	Emitter source localization using time-of-arrival measurements from single moving receiver. , 2017, , .		11
38	Adaptive beamforming algorithms with robustness against steering vector mismatch of signals. IET Radar, Sonar and Navigation, 2017, 11, 1831-1838.	0.9	11
39	Automatic Modulation Recognition for Phase Shift Keying Signals With Compressive Measurements. IEEE Wireless Communications Letters, 2018, 7, 194-197.	3.2	11
40	Computationally Attractive and Location Robust Estimator for IoT Device Positioning. IEEE Internet of Things Journal, 2022, 9, 10891-10907.	5.5	11
41	A theoretical framework for quantum image representation and data loading scheme. Science China Information Sciences, 2014, 57, 1-11.	2.7	10
42	Polarimetric object-level SAR imaging method with canonical scattering characterisation by exploiting joint sparsity. IET Radar, Sonar and Navigation, 2017, 11, 1558-1566.	0.9	10
43	Robust Widely Linear Beamforming via the Techniques of Iterative QCQP and Shrinkage for Steering Vector Estimation. IEEE Access, 2018, 6, 17143-17152.	2.6	9
44	A Noise Reduction Fingerprint Feature for Indoor Localization. , 2018, , .		9
45	Position Determination for Moving Transmitter Using Single Station. IEEE Access, 2018, 6, 61103-61116.	2.6	9
46	Mobile Localizatoin Method Based on Multidimensional Similarity Analysis. , 0, , .		8
47	3D hybrid TOA-AOA source localization using an active and a passive station. , 2016, , .		8
48	Object-level SAR imaging method with canonical scattering characterisation and inter-subdictionary interferences mitigation. IET Radar, Sonar and Navigation, 2016, 10, 784-790.	0.9	8
49	Sparse Bayesian Inference-Based Direct Off-Grid Position Determination in Multipath Environments. IEEE Wireless Communications Letters, 2021, 10, 1148-1152.	3.2	8
50	Indoor Localization Error Measurements with Multiple Channels. , 2010, , .		6
51	CRLB for DOA Estimation in Gaussian and Non-Gaussian Mixed Environments. Wireless Personal Communications, 2013, 68, 1673-1688.	1.8	6
52	An Efficiency-improved Tdoa-based Direct Position Determination Method for Multiple Sources. , 2019, , .		6
53	Transfer Learning for Wireless Fingerprinting Localization Based on Optimal Transport. Sensors, 2020, 20, 6994.	2.1	6
54	A Tensor Decomposition Based Multiway Structured Sparse SAR Imaging Algorithm with Kronecker Constraint. Algorithms, 2017, 10, 2.	1.2	5

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55	A novel adaptive wide-angle SAR imaging algorithm based on Boltzmann machine model. <i>Multidimensional Systems and Signal Processing</i> , 2018, 29, 119-135.	1.7	5
56	Robust Polarimetric SAR Imaging Method With Attributed Scattering Characterization. <i>IEEE Access</i> , 2019, 7, 52414-52426.	2.6	5
57	TDOA/FDOA estimation algorithm of frequency-hopping signals based on CAF coherent integration. <i>IET Communications</i> , 2020, 14, 331-336.	1.5	5
58	Joint diagonalization DOA matrix method. <i>Science in China Series F: Information Sciences</i> , 2008, 51, 1340-1348.	1.1	4
59	Time Delay Estimation Based on Mutual Information Estimation. , 2009, , .		4
60	Robust DOA Estimation for Uncorrelated and Coherent Signals. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2011, E94-A, 2035-2038.	0.2	4
61	Sidelobe Suppression for Robust Beamformer Via the Mixed Norm Constraint. <i>Wireless Personal Communications</i> , 2012, 65, 825-832.	1.8	4
62	A novel indoor positioning method based on location fingerprinting. , 2013, , .		4
63	Variable Is Better Than Invariable: Sparse VSS-NLMS Algorithms with Application to Adaptive MIMO Channel Estimation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-10.	0.8	4
64	Automatic Modulation Recognition of PSK signals using nonuniform compressive samples based on high order statistics. , 2014, , .		4
65	Feature extraction of sar target in clutter based on peak region segmentation and regularized orthogonal matching pursuit. , 2014, , .		4
66	2-D DOAs estimation in impulsive noise environments using joint diagonalization fractional lower-order spatio-temporal matrices. <i>Science in China Series F: Information Sciences</i> , 2008, 51, 1585-1593.	1.1	3
67	Dictionary preconditioning for orthogonal matching pursuit in the presence of noise. , 2009, , .		3
68	Biased time-of-arrival-based location dominating linear-least-squares estimation. , 2010, , .		3
69	Passive time delay estimation for complex noncircular signals. , 2012, , .		3
70	An angle difference of directions arrival algorithm with channel inconsistency. <i>International Journal of Electronics</i> , 2013, 100, 312-318.	0.9	3
71	Fast DOA estimation algorithm for noncircular sources with central symmetrical array. , 2014, , .		3
72	Weighted Least-square Method for A Novel 3D Localization Scheme Using 1D AOA Measurements. , 2019, , .		3

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73	Direct Position Determination of Indoor Radio Sources Using Hybrid Antenna Arrays. , 2021, , .		3
74	ISAR Moving Target Imaging Method Using Hy-ADMM and mm-GLRT. IEEE Sensors Journal, 2022, 22, 2618-2629.	2.4	3
75	Maximum likelihood location for identification of line-of-sight base stations. , 2006, , .		2
76	Parameters estimation of coherently distributed sources in the presence of mutual coupling. , 2006, , .		2
77	Fast DOA Tracking of Coherently Distributed Sources Based on Subspace Updating. , 2006, , .		2
78	Designing Optimal UWB Pulse Waveform Directly by FIR Filter. , 2008, , .		2
79	Sparse Multi-Path Channel Estimation for OFDM Systems. , 2008, , .		2
80	Robust adaptive beamforming under quadratic constraint. , 2010, , .		2
81	One Bit Support Recovery. , 2010, , .		2
82	A Fast Multidimensional Scaling Analysis for Mobile Positioning. , 2010, , .		2
83	DOA Estimation in Mechanical Scanning Radar Systems Using Sparse Signal Reconstruction Methods. , 2011, , .		2
84	A robust beamformer with virtual array. , 2011, , .		2
85	Multiple frequencies estimation from compressive phase-only data: performance analysis. International Journal of Electronics, 2014, 101, 121-132.	0.9	2
86	Compressive slow-varying wideband power spectrum sensing for cognitive radio. Annales Des Telecommunications/Annals of Telecommunications, 2014, 69, 559-567.	1.6	2
87	DOA estimation under the existence of multiple groups of coherent signals with ULA. Electronics Letters, 2017, 53, 562-564.	0.5	2
88	Near-field-based array failure diagnosis using sparse source reconstruction. , 2017, , .		2
89	Robust Widely Widely Beamforming via the Technique of Shrinkage for Steering Vector Estimation. , 2018, , .		2
90	Algebraic Solution for Tdoa Localization in Modified Polar Representation. , 2019, , .		2

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91	DOA estimation of multipath signals in the presence of gain&#x2013;phase errors using an auxiliary source. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1114-1121.	0.8	2
92	A TDOA-FDOA Localization Method in Closed-form Based on Deviation Refining. , 2019, , .		2
93	Time-Difference-of-Arrival Estimation Algorithms by Employing Cyclostationary Property of LFM Signals. , 2020, 4, 1-4.		2
94	Time-Delay-Based Target Localization in Wireless Sensor Network With Unknown Noise Covariance. , 2021, 5, 1-4.		2
95	A Novel 3-D Localization Scheme Using 1-D AOA and TDOA Measurements. , 2021, , .		2
96	Enhanced Reactance-Domain ESPRIT Method for ESPAR Antenna. , 2006, , .		1
97	Motive Parameters Estimation Using Narrow-band Passive Acoustical Measurements. , 2007, , .		1
98	Observation data based DOA estimation with uncalibrated antenna array in perspective of sparse solution finding. , 2007, , .		1
99	Partial sparse multi-path channel estimation using $\ell_1$ -regularized LS algorithm. , 2008, , .		1
100	Sparse Signal Recovery via Multi-Residual Based Greedy Method. , 2009, , .		1
101	Adaptive Inter-Atom Interference Mitigation Approach to Sparse Multi-Path Channel Estimation. , 2010, , .		1
102	Greedy approach to sparse multi-path channel estimation using sensing dictionary. International Journal of Adaptive Control and Signal Processing, 2011, 25, 544-553.	2.3	1
103	Minimum variance multi-frequency distortionless restriction for digital wideband beamformer. , 2011, , .		1
104	Teaching notes of MVDR in digital signal processing (DSP). , 2012, , .		1
105	Effectiveness of the Wideband Minimum Variance Direction Finding Method in Nonuniform Noise. , 2012, , .		1
106	Direction of arrival estimation of non-circular signals with centre-symmetric circular array. , 2013, , .		1
107	Compressive 1-D signal recovery from magnitude-only measurements via convex optimization. , 2013, , .		1
108	Multiple frequencies estimation from compressive phase-only data: algorithm and application. International Journal of Electronics, 2013, 100, 1471-1482.	0.9	1

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109	A CPD-based AOA estimation algorithm with vandermonde-constrained preprocessing approach. , 2015, , .		1
110	An self-calibration approach to dynamic antenna array. , 2016, , .		1
111	Target localization in noncoherent distributed MIMO radar system using squared range-sum measurements. , 2016, , .		1
112	BI-GESPAR: A fast SAR imaging algorithm for phase noise mitigation. , 2016, , .		1
113	Geometric algebra in electronics and information engineering: An introduction. International Journal of Electrical Engineering and Education, 2016, 53, 252-269.	0.4	1
114	Automatic Modulation Recognition Using Compressive Cyclic Features. Algorithms, 2017, 10, 92.	1.2	1
115	A Method of Fast Extract Signal Subspace Based on the Householder Transformation. , 2018, , .		1
116	Clustered Sparsity-Driven SAR Imaging and Autofocus Algorithm in Structured Phase-Noisy Environments. IEEE Access, 2019, 7, 70200-70211.	2.6	1
117	A Fast Algorithm of Direct Position Determination Using TDOA and FDOA. Journal of Physics: Conference Series, 2019, 1169, 012014.	0.3	1
118	Direct Position Determination Using TDOA and FDOA Based on Variable Baseline. , 2019, , .		1
119	Enhanced Interferometer DOA Estimator for Signal with Known Waveform. , 2019, , .		1
120	Performance bound for Target Localization under Model Misspecification. , 2019, , .		1
121	An Alternating Minimization Algorithm for 3D Target Localization Using 1D AOA Measurements. , 2020, , 1-1.		1
122	High Resolution Joint Angle and Delay Estimation Using IEEE 802.11ac. , 2021, , .		1
123	Frequency searching method of motive parameters estimation. , 0, , .		0
124	Effect of reference point on performance of Multidimensional Scaling algorithm for localization in wireless sensor networks. , 2007, , .		0
125	An improved 2-D ESPRIT Method for joint DOA-delay estimation. , 2007, , .		0
126	Location of Mobile Terminals based on LS-SVM with Survey Points in NLOS Environment. , 2007, , .		0



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127	The Influence of Random motion Errors on Bistatic SAR Resolution. , 2007, , .		0
128	An improved direction-of-arrival estimation via phase information of sparse solution. , 2009, , .		0
129	A pavement distress survey algorithm with novel models and line points detection. , 2009, , .		0
130	Improved Anti-NBI UWB Waveform Design Based on Spectral Factorization. , 2009, , .		0
131	A Novel GPS Antijamming Receiver Based on Noncircularity. Journal of Electrical and Computer Engineering, 2010, 2010, 1-4.	0.6	0
132	First Arrival Detection for Sparse Multipath Channel. , 2010, , .		0
133	Improved Semi-Blind Sparse Channel Estimation Based on Constant Modulus Constraint. , 2010, , .		0
134	Direction Finding via Beam Scanning and Sparse Reconstruction. , 2010, , .		0
135	A Fast Method for DOA Estimation of Coherent Signal from Sparse Signal Reconstruction Perspective. , 2011, , .		0
136	Fast Compressive Wideband Spectrum Sensing Based on Dictionary Linear Combination. , 2011, , .		0
137	HRRP synthesizing in presence of observation data loss: A new way. , 2011, , .		0
138	A rang-free location method based on differential evolution algorithm. , 2013, , .		0
139	Restricted Isometry Property of Principal Component Pursuit with Reduced Linear Measurements. Journal of Applied Mathematics, 2013, 2013, 1-6.	0.4	0
140	DOA estimation for uncorrelated and coherent signals based on Fourth-order Cumulants. , 2013, , .		0
141	Direction-of-arrival estimation based on magnitude-only samples with partly calibrated sensors array. International Journal of Electronics Letters, 2013, 1, 18-23.	0.7	0
142	Robust adaptive beamforming for noncircular signal against array steering vector mismatch and interference nonstationarity. , 2015, , .		0
143	Anisotropic image formation based on basic sequential algorithmic scheme and non-quadratic regularization. , 2015, , .		0
144	Features extraction for PSK signals recognition using nonuniform compressive samples based on high order transformation. , 2015, , .		0

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145	Double-constraint flexible tree search-based orthogonal matching pursuit for DOA estimation using dynamic sensor arrays. International Journal of Electronics, 0, , 1-9.	0.9	0
146	Sources localization through matrix completion via Nystrom completion. , 2016, , .		0
147	SCC-MUSIC algorithm for DOA estimation based on cyclostationarity. , 2016, , .		0
148	Compressive sensing approach for automatic modulation recognition via wavelet analysis. , 2016, , .		0
149	Forward-Backward Linear Predictor Based Direct Geolocation Using Single Moving Antenna Array. , 2017, , .		0
150	Robust Widely Linear Beamforming via a Shrinkage Method for Signal Steering Vector Estimation. , 2017, , .		0
151	A Method of Fast Extract Signal Subspace Based on the Householder Transformation. , 2017, , .		0
152	A Wideband Spectrum Sensing Based on ESPRIT Algorithm. , 2017, , .		0
153	A Type-2 Block-Component-Decomposition Based 2D AOA Estimation Algorithm for an Electromagnetic Vector Sensor Array. Sensors, 2017, 17, 963.	2.1	0
154	Stable Analysis of Compressive Principal Component Pursuit. Algorithms, 2017, 10, 29.	1.2	0
155	Sensor Network Based DOA Estimation Method Without Phase Synchronization. , 2018, , .		0
156	A Wideband Spectrum Sensing Based on ESPRIT Algorithm. , 2018, , .		0
157	Joint interrupted SAR imaging and coherent change detection using Markov random fields. , 2018, , .		0
158	Cyclic MUSIC Algorithm Based on Dual Cyclic Frequencies for Direction Finding. , 2019, , .		0
159	Understanding Several Adaptive Filter Algorithms Based on the Weight-update Strategy. , 2019, , .		0
160	Performance Analysis of Coherent and Incoherent Direction Finding with Distributed Subarrays in low Altitude Airspace. , 2020, , .		0
161	Spectrum Prediction in Cognitive Radio Based on Sequence to Sequence Neural Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 343-354.	0.2	0
162	The Recursive Spectral Bisection Probability Hypothesis Density Filter. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 47-56.	0.2	0