

Peter K Willett

List of Publications by Year in descending order

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332
papers

7,635
citations

61857

43
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334
all docs

334
docs citations

334
times ranked

4083
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse Channel Estimation for Multicarrier Underwater Acoustic Communication: From Subspace Methods to Compressed Sensing. IEEE Transactions on Signal Processing, 2010, 58, 1708-1721.	3.2	598
2	Signal Processing for Passive Radar Using OFDM Waveforms. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 226-238.	7.3	312
3	MIMO-OFDM for High-Rate Underwater Acoustic Communications. IEEE Journal of Oceanic Engineering, 2009, 34, 634-644.	2.1	301
4	Detection, Synchronization, and Doppler Scale Estimation with Multicarrier Waveforms in Underwater Acoustic Communication. IEEE Journal on Selected Areas in Communications, 2008, 26, 1638-1649.	9.7	185
5	The good, bad and ugly: distributed detection of a known signal in dependent Gaussian noise. IEEE Transactions on Signal Processing, 2000, 48, 3266-3279.	3.2	177
6	Near-optimal multiuser detection in synchronous CDMA using probabilistic data association. IEEE Communications Letters, 2001, 5, 361-363.	2.5	177
7	A Scalable Algorithm for Tracking an Unknown Number of Targets Using Multiple Sensors. IEEE Transactions on Signal Processing, 2017, 65, 3478-3493.	3.2	145
8	The MIMO Radar and Jammer Games. IEEE Transactions on Signal Processing, 2012, 60, 687-699.	3.2	144
9	Nonbinary LDPC Coding for Multicarrier Underwater Acoustic Communication. IEEE Journal on Selected Areas in Communications, 2008, 26, 1684-1696.	9.7	138
10	Generalized Rao Test for Decentralized Detection of an Uncooperative Target. IEEE Signal Processing Letters, 2017, 24, 678-682.	2.1	134
11	Asymptotic Optimality of Running Consensus in Testing Binary Hypotheses. IEEE Transactions on Signal Processing, 2010, 58, 814-825.	3.2	99
12	Neural network detection of grinding burn from acoustic emission. International Journal of Machine Tools and Manufacture, 2001, 41, 283-309.	6.2	95
13	Decorrelated unbiased converted measurement Kalman filter. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1431-1444.	2.6	94
14	The Bin-Occupancy Filter and Its Connection to the PHD Filters. IEEE Transactions on Signal Processing, 2009, 57, 4232-4246.	3.2	92
15	Progressive Inter-Carrier Interference Equalization for OFDM Transmission Over Time-Varying Underwater Acoustic Channels. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1524-1536.	7.3	90
16	Reducing the Waveform Cross Correlation of MIMO Radar With Space-Time Coding. IEEE Transactions on Signal Processing, 2010, 58, 4213-4224.	3.2	88
17	Set JPDA Filter for Multitarget Tracking. IEEE Transactions on Signal Processing, 2011, 59, 4677-4691.	3.2	85
18	Deep Learning Methods for Vessel Trajectory Prediction Based on Recurrent Neural Networks. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 4329-4346.	2.6	82

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19	Monopulse Radar detection and localization of multiple unresolved targets via joint bin Processing. IEEE Transactions on Signal Processing, 2005, 53, 1225-1236.	3.2	80
20	Modeling vessel kinematics using a stochastic mean-reverting process for long-term prediction. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2313-2330.	2.6	79
21	COVID-19 impact on global maritime mobility. Scientific Reports, 2021, 11, 18039.	1.6	77
22	Optimum receiver design for pattern recognition with nonoverlapping target and scene noise. Optics Letters, 1993, 18, 1660.	1.7	76
23	An Improved Complex Sphere Decoder for V-BLAST Systems. IEEE Signal Processing Letters, 2004, 11, 748-751.	2.1	73
24	One-Bit Decentralized Detection With a Rao Test for Multisensor Fusion. IEEE Signal Processing Letters, 2013, 20, 861-864.	2.1	72
25	Bayesian Tracking in Underwater Wireless Sensor Networks With Port-Starboard Ambiguity. IEEE Transactions on Signal Processing, 2014, 62, 1864-1878.	3.2	69
26	Stratification Effect Compensation for Improved Underwater Acoustic Ranging. IEEE Transactions on Signal Processing, 2008, 56, 3779-3783.	3.2	67
27	Bayesian Data Fusion for Distributed Target Detection in Sensor Networks. IEEE Transactions on Signal Processing, 2010, 58, 3417-3421.	3.2	67
28	Integration of Bayes detection with target tracking. IEEE Transactions on Signal Processing, 2001, 49, 17-29.	3.2	65
29	MIMO-OFDM Over An Underwater Acoustic Channel. , 2007, , .		61
30	All-purpose and plug-in power-law detectors for transient signals. IEEE Transactions on Signal Processing, 2001, 49, 2454-2466.	3.2	58
31	Detection and Localization of Multiple Unresolved Extended Targets via Monopulse Radar Signal Processing. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 455-472.	2.6	58
32	PAC vs. MAC for Decentralized Detection Using Noncoherent Modulation. IEEE Transactions on Signal Processing, 2009, 57, 3562-3575.	3.2	57
33	Submarine Location Estimation Via a Network of Detection-Only Sensors. IEEE Transactions on Signal Processing, 2007, 55, 3104-3115.	3.2	56
34	Optimizing Joint Erasure- and Error-Correction Coding for Wireless Packet Transmissions. IEEE Transactions on Wireless Communications, 2008, 7, 4586-4595.	6.1	52
35	Distributed Target Detection in Sensor Networks Using Scan Statistics. IEEE Transactions on Signal Processing, 2009, 57, 2629-2639.	3.2	52
36	Matrix CRLB scaling due to measurements of uncertain origin. IEEE Transactions on Signal Processing, 2001, 49, 1325-1335.	3.2	51

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37	Shooting two birds with two bullets: How to find Minimum Mean OSPA estimates. , 2010, , .		51
38	Clustered Adaptation for Estimation of Time-Varying Underwater Acoustic Channels. IEEE Transactions on Signal Processing, 2012, 60, 3079-3091.	3.2	50
39	Distributed Detection With Censoring Sensors Under Physical Layer Secrecy. IEEE Transactions on Signal Processing, 2009, 57, 1976-1986.	3.2	49
40	A Multiple IMM Estimation Approach with Unbiased Mixing for Thrusting Projectiles. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 3250-3267.	2.6	49
41	Multiple Ornstein-Uhlenbeck Processes for Maritime Traffic Graph Representation. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2158-2170.	2.6	49
42	Some methods to evaluate the performance of Page's test as used to detect transient signals. IEEE Transactions on Signal Processing, 1999, 47, 2112-2127.	3.2	48
43	Iterative Sparse Channel Estimation and Decoding for Underwater MIMO-OFDM. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	48
44	Gaussian mixture cardinalized PHD filter for ground moving target tracking. , 2007, , .		47
45	Parameterized Cancellation of Partial-Band Partial-Block-Duration Interference for Underwater Acoustic OFDM. IEEE Transactions on Signal Processing, 2012, 60, 1782-1795.	3.2	46
46	GMTI Tracking via the Gaussian Mixture Cardinalized Probability Hypothesis Density Filter. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1821-1833.	2.6	45
47	Distributed Estimation in Large Wireless Sensor Networks via a Locally Optimum Approach. IEEE Transactions on Signal Processing, 2008, 56, 748-756.	3.2	44
48	Projectile Identification and Impact Point Prediction. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 2004-2021.	2.6	43
49	Asynchronous Multiuser Reception for OFDM in Underwater Acoustic Communications. IEEE Transactions on Wireless Communications, 2013, 12, 1050-1061.	6.1	43
50	Asymptotic Efficiency of the PHD in Multitarget/Multisensor Estimation. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 553-564.	7.3	41
51	Approaches to Cartesian Data Association Passive Radar Tracking in a DAB/DVB Network. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 649-663.	2.6	41
52	Offline and Real-Time Methods for ML-PDA Track Validation. IEEE Transactions on Signal Processing, 2007, 55, 1994-2006.	3.2	40
53	Prediction oof Vessel Trajectories From AIS Data Via Sequence-To-Sequence Recurrent Neural Networks. , 2020, , .		40
54	The Multiple Model CPHD Tracker. IEEE Transactions on Signal Processing, 2012, 60, 1741-1751.	3.2	36

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55	Detecting Anomalous Deviations From Standard Maritime Routes Using the Ornstein-Uhlenbeck Process. IEEE Transactions on Signal Processing, 2018, 66, 6474-6487.	3.2	36
56	An OFDM Design for Underwater Acoustic Channels with Doppler Spread. , 2009, , .		35
57	Multisensor adaptive bayesian tracking under time-varying target detection probability. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2193-2209.	2.6	35
58	Dynamic Multiple-Fault Diagnosis With Imperfect Tests. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 1224-1236.	3.4	34
59	Consensus-based Page's test in sensor networks. Signal Processing, 2011, 91, 919-930.	2.1	34
60	Estimating the Parameters of General Frequency Modulated Signals. IEEE Transactions on Signal Processing, 2004, 52, 117-131.	3.2	33
61	Sparse channel estimation for multicarrier underwater acoustic communication: From subspace methods to compressed sensing. , 2009, , .		33
62	Cross-Layer Design of Sequential Detectors in Sensor Networks. IEEE Transactions on Signal Processing, 2006, 54, 4105-4117.	3.2	31
63	Signal Amplitude Estimation and Detection From Unlabeled Binary Quantized Samples. IEEE Transactions on Signal Processing, 2018, 66, 4291-4303.	3.2	31
64	Detection of random transient signals via hyperparameter estimation. IEEE Transactions on Signal Processing, 1999, 47, 1823-1834.	3.2	30
65	Developing a Real-Time Track Display That Operators Do Not Hate. IEEE Transactions on Signal Processing, 2011, 59, 3441-3447.	3.2	30
66	Performance limits of PD location based on time-domain reflectometry. IEEE Transactions on Dielectrics and Electrical Insulation, 1997, 4, 182-188.	1.8	29
67	Asymptotic Design of Quantizers for Decentralized MMSE Estimation. IEEE Transactions on Signal Processing, 2007, 55, 5485-5496.	3.2	29
68	A Likelihood-Based Multiple Access for Estimation in Sensor Networks. IEEE Transactions on Signal Processing, 2007, 55, 5155-5166.	3.2	29
69	Systematic approach to IMM mixing for unequal dimension states. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2975-2986.	2.6	29
70	Adaptive Bayesian Learning and Forecasting of Epidemic Evolution Data Analysis of the COVID-19 Outbreak. IEEE Access, 2020, 8, 175244-175264.	2.6	29
71	Anomaly Detection via Feature-Aided Tracking and Hidden Markov Models. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 144-159.	3.4	28
72	Unbiased tracking with converted measurements. , 2012, , .		28

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73	A Practical Joint Network-Channel Coding Scheme for Reliable Communication in Wireless Networks. IEEE Transactions on Wireless Communications, 2012, 11, 2084-2094.	6.1	28
74	Multistatic Bayesian extended target tracking. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2626-2643.	2.6	28
75	Consistent Estimation of Randomly Sampled Ornstein-Uhlenbeck Process Long-Run Mean for Long-Term Target State Prediction. IEEE Signal Processing Letters, 2016, 23, 1562-1566.	2.1	28
76	Optimal Decentralized Detection for Conditionally Independent Sensors. , 1989, , .		28
77	Multistatic target tracking for passive radar in a DAB/DVB network: initiation. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2460-2469.	2.6	27
78	Converted Measurement Sigma Point Kalman Filter for Bistatic Sonar and Radar Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 147-159.	2.6	27
79	ML-PDA and ML-PMHT: Comparing Multistatic Sonar Trackers for VLO Targets Using a New Multitarget Implementation. IEEE Journal of Oceanic Engineering, 2014, 39, 303-317.	2.1	25
80	Bayesian classification and feature reduction using uniform dirichlet priors. IEEE Transactions on Systems, Man, and Cybernetics, 2003, 33, 448-464.	5.5	24
81	Joint Segmentation and Classification of Time Series Using Class-Specific Features. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1056-1067.	5.5	24
82	Active Detection With a Barrier Sensor Network Using a Scan Statistic. IEEE Journal of Oceanic Engineering, 2012, 37, 66-74.	2.1	24
83	Impact Point Prediction for Thrusting Projectiles in the Presence of Wind. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 102-119.	2.6	24
84	Preamble Detection for Underwater Acoustic Communications Based on Sparse Channel Identification. IEEE Journal of Oceanic Engineering, 2019, 44, 256-268.	2.1	24
85	A variable threshold page procedure for detection of transient signals. IEEE Transactions on Signal Processing, 2005, 53, 4397-4402.	3.2	23
86	MLPDA and MLPMT Applied to Some MSTWG Data. , 2006, , .		22
87	Structure, property, and design of nonbinary regular cycle codes. IEEE Transactions on Communications, 2010, 58, 1060-1071.	4.9	22
88	Underwater Localization and Tracking of Physical Systems. Journal of Electrical and Computer Engineering, 2012, 2012, 1-11.	0.6	22
89	Malicious AIS Spoofing and Abnormal Stealth Deviations: A Comprehensive Statistical Framework for Maritime Anomaly Detection. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2093-2108.	2.6	22
90	Performance considerations for a combined information classification test using Dirichlet priors. IEEE Transactions on Signal Processing, 1999, 47, 1711-1714.	3.2	21

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91	A PDA-Kalman approach to multiuser detection in asynchronous CDMA. IEEE Communications Letters, 2002, 6, 475-477.	2.5	21
92	Recursive and Trellis-Based Feedback Reduction for MIMO-OFDM with Rate-Limited Feedback. IEEE Transactions on Wireless Communications, 2006, 5, 3400-3405.	6.1	21
93	ML-PDA: Advances and a New Multitarget Approach. Eurasip Journal on Advances in Signal Processing, 2007, 2008, .	1.0	21
94	Compressed sensing for OFDM/MIMO radar. , 2008, , .		21
95	A practical joint network-channel coding scheme for reliable communication in wireless networks. , 2009, , .		21
96	Stochastic Resonance in Sequential Detectors. IEEE Transactions on Signal Processing, 2009, 57, 2-15.	3.2	21
97	Space-Based Global Maritime Surveillance. Part I: Satellite Technologies. IEEE Aerospace and Electronic Systems Magazine, 2021, 36, 8-28.	2.3	21
98	Further results on high-rate MIMO-OFDM underwater acoustic communications. , 2008, , .		20
99	On Fisher Information Reduction for Range-Only Localization with Imperfect Detection. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 3694-3702.	2.6	20
100	Nearest-Neighbor Distributed Learning by Ordered Transmissions. IEEE Transactions on Signal Processing, 2013, 61, 5217-5230.	3.2	20
101	Secure multi-party consensus gossip algorithms. , 2014, , .		20
102	On Wasserstein Barycenters and MMOSPA Estimation. IEEE Signal Processing Letters, 2015, 22, 1511-1515.	2.1	20
103	Performance Assessment of Vessel Dynamic Models for Long-Term Prediction Using Heterogeneous Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6533-6546.	2.7	20
104	Selective Measurement Transmission in Distributed Estimation With Data Association. IEEE Transactions on Signal Processing, 2010, 58, 4311-4321.	3.2	19
105	PMHT Approach for Underwater Bearing-Only Multisensor Multitarget Tracking in Clutter. IEEE Journal of Oceanic Engineering, 2016, 41, 831-839.	2.1	19
106	Maritime Anomaly Detection Based on Mean-Reverting Stochastic Processes Applied to a Real-World Scenario. , 2018, , .		19
107	A physical-space approach for the probability hypothesis density and cardinalized probability hypothesis density filters. , 2006, , .		17
108	Predicting Time to Failure Using the IMM and Excitable Tests. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 630-642.	3.4	17

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109	A Low-Complexity Sliding-Window Kalman FIR Smoother for Discrete-Time Models. IEEE Signal Processing Letters, 2010, 17, 177-180.	2.1	17
110	Maritime Anomaly Detection in a Real-World Scenario: <i>Ever Given</i> Grounding in the Suez Canal. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13904-13910.	4.7	17
111	DOA estimation via a network of dumb sensors under the SENMA paradigm. IEEE Signal Processing Letters, 2005, 12, 709-712.	2.1	16
112	Precise Timing for Multiband OFDM in a UWB System. , 2006, , .		16
113	Multistatic Sensor Placement: A Tracking Approach. , 2006, , .		16
114	Performance Analysis on an MAP Fine Timing Algorithm in UWB Multiband OFDM. IEEE Transactions on Communications, 2008, 56, 1606-1611.	4.9	16
115	Optimal power allocation for MIMO radars with heterogeneous propagation losses. , 2012, , .		16
116	Dominant-plus-Rayleigh Models for RCS: Swerling III/IV versus Rician. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 2058-2064.	2.6	16
117	Estimation of thrusting trajectories in 3D from a single fixed passive sensor. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2096-2108.	2.6	16
118	Approximate Multi-Hypothesis Multi-Bernoulli Multi-Object Filtering Made Multi-Easy. IEEE Transactions on Signal Processing, 2016, 64, 1784-1797.	3.2	16
119	Algorithms and Fundamental Limits for Unlabeled Detection Using Types. IEEE Transactions on Signal Processing, 2019, 67, 2022-2035.	3.2	16
120	Analytical Models for the Electromagnetic Scattering From Isolated Targets in Bistatic Configuration: Geometrical Optics Solution. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 861-880.	2.7	16
121	Two algorithms to segment white gaussian data with piecewise constant variances. IEEE Transactions on Signal Processing, 2003, 51, 373-385.	3.2	15
122	Quantizer Precision for Distributed Estimation in a Large Sensor Network. IEEE Transactions on Signal Processing, 2006, 54, 4073-4078.	3.2	15
123	The Multitarget Monopulse CRLB for Matched Filter Samples. IEEE Transactions on Signal Processing, 2007, 55, 4183-4197.	3.2	15
124	Extreme-value analysis for ML-PMHT, Part 1: threshold determination. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2500-2514.	2.6	15
125	Quickest Detection and Tracking of Spawning Targets Using Monopulse Radar Channel Signals. IEEE Transactions on Signal Processing, 2008, 56, 1302-1308.	3.2	14
126	Receiver comparisons on an OFDM design for Doppler spread channels. , 2009, , .		14

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127	Comments on "Closed-Form Four-Channel Monopulse Two-Target Resolution". IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 913-916.	2.6	14
128	Doppler-aided localization of mobile nodes in an underwater distributed antenna system. Physical Communication, 2016, 18, 49-59.	1.2	14
129	Anomaly Detection and Tracking Based on Mean-Reverting Processes with Unknown Parameters. , 2019, , .		14
130	Space-Based Global Maritime Surveillance. Part II: Artificial Intelligence and Data Fusion Techniques. IEEE Aerospace and Electronic Systems Magazine, 2021, 36, 30-42.	2.3	14
131	Support-based and ML approaches to DOA estimation in a dumb sensor network. IEEE Transactions on Signal Processing, 2006, 54, 1563-1567.	3.2	13
132	The ML-PMHT Multistatic Tracker for Sharply Maneuvering Targets. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 2235-2249.	2.6	13
133	Extreme-value analysis for mlML-PMHT, Part 2: target trackability. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2515-2527.	2.6	13
134	Quickest Detection and Forecast of Pandemic Outbreaks: Analysis of COVID-19 Waves. IEEE Communications Magazine, 2021, 59, 16-22.	4.9	13
135	Nonbinary LDPC Coding for Multicarrier Underwater Acoustic Communications. , 2008, , .		12
136	Sparse channel estimation for OFDM: Over-complete dictionaries and super-resolution. , 2009, , .		12
137	Quickest Detection of COVID-19 Pandemic Onset. IEEE Signal Processing Letters, 2021, 28, 683-687.	2.1	12
138	Some approaches to quantization for distributed estimation with data association. IEEE Transactions on Signal Processing, 2005, 53, 885-895.	3.2	11
139	A particle filter for tracking two closely spaced objects using monopulse radar channel signals. IEEE Signal Processing Letters, 2006, 13, 357-360.	2.1	11
140	Sequential ML for Multistatic Sonar Tracking. , 2007, , .		11
141	Optimal Memoryless Relays With Noncoherent Modulation. IEEE Transactions on Signal Processing, 2008, 56, 5962-5975.	3.2	11
142	Scalable OFDM design for underwater acoustic communications. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	11
143	A Repeated Significance Test With Applications To Sequential Detection In Sensor Networks. IEEE Transactions on Signal Processing, 2010, 58, 3426-3435.	3.2	11
144	Progressive MIMO-OFDM reception over time-varying underwater acoustic channels. , 2010, , .		11

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145	An approximate Minimum MOSPA estimator. , 2011, , .		11
146	Consistent linear tracker with position and range rate measurements. , 2012, , .		11
147	Asymmetric Threat Modeling Using HMMs: Bernoulli Filtering and Detectability Analysis. IEEE Transactions on Signal Processing, 2016, 64, 2587-2601.	3.2	11
148	Simulation-Based Feasibility Analysis of Ship Detection Using GNSS-R Delay-Doppler Maps. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1385-1399.	2.3	11
149	A Sequential Target Existence Statistic for Joint Probabilistic Data Association. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 371-381.	2.6	11
150	Use of Bayesian data reduction for the fusion of legacy classifiers. Information Fusion, 2003, 4, 23-34.	11.7	10
151	Progressive inter-carrier interference equalization for OFDM transmission over time-varying underwater acoustic channels. , 2010, , .		10
152	Maximum likelihood probabilistic multi-hypothesis tracker applied to multistatic sonar data sets. , 2011, , .		10
153	Predetection Fusion With Doppler Measurements and Amplitude Information. IEEE Journal of Oceanic Engineering, 2012, 37, 56-65.	2.1	10
154	A linear complexity particle approach to the exact multi-sensor PHD. , 2013, , .		10
155	Performance analysis of the converted range rate and position linear Kalman filter. , 2013, , .		10
156	Notice of Retraction: Nonlinear Observation Models With Additive Gaussian Noises and Efficient MLEs. IEEE Signal Processing Letters, 2017, 24, 545-549.	2.1	10
157	A Convenient Analytical Framework for Electromagnetic Scattering From Composite Targets. Radio Science, 2019, 54, 785-807.	0.8	10
158	Decision support for the quickest detection of critical COVID-19 phases. Scientific Reports, 2021, 11, 8558.	1.6	10
159	Cooperative Localization and Multitarget Tracking in Agent Networks with the Sum-Product Algorithm. IEEE Open Journal of Signal Processing, 2022, 3, 169-195.	2.3	10
160	Sequential detection of almost-harmonic signals. IEEE Transactions on Signal Processing, 2003, 51, 395-406.	3.2	9
161	An Advanced System for Modeling Asymmetric Threats. , 2006, , .		9
162	Deflection-optimal data forwarding over a Gaussian multiaccess channel. IEEE Communications Letters, 2007, 11, 1-3.	2.5	9

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163	Near-Shannon-Limit Linear-Time-Encodable Nonbinary Irregular LDPC Codes. , 2009, , .		9
164	Group-theoretic analysis of cayley-graph-based cycle gf(2p) codes. IEEE Transactions on Communications, 2009, 57, 1560-1565.	4.9	9
165	Sensor bias estimation in the presence of data association uncertainty. Proceedings of SPIE, 2009, , .	0.8	9
166	Aspects of MMOSPA estimation. , 2011, , .		9
167	Tracking with converted position and Doppler measurements. Proceedings of SPIE, 2011, , .	0.8	9
168	Measurement Extraction for a Point Target From an Optical Sensor. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2735-2745.	2.6	9
169	Bayesian Filtering for Dynamic Anomaly Detection and Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1528-1544.	2.6	9
170	Quickest detection of a tonal burst. IEEE Transactions on Signal Processing, 1997, 45, 2037-2047.	3.2	8
171	Compressed sensing - a look beyond linear programming. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	8
172	Detection performance for statistical MIMO radar with identical and orthogonal waveforms. , 2011, , .		8
173	Progressive intercarrier and coâ€channel interference mitigation for underwater acoustic multiâ€input multiâ€output orthogonal frequencyâ€division multiplexing. Wireless Communications and Mobile Computing, 2014, 14, 321-338.	0.8	8
174	Performance of Mode Space Detector in Uncertain Shallow Water and Its Robust Realization. IEEE Journal of Oceanic Engineering, 2018, 43, 131-144.	2.1	8
175	Spaceborne GNSS-Reflectometry for Ship-Detection Applications: Impact of Acquisition Geometry and Polarization. , 2018, , .		8
176	CRLB for Estimating Time-Varying Rotational Biases in Passive Sensors. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 343-355.	2.6	8
177	Track Coalescence and Repulsion: MHT, JPDA, and BP. , 2021, , .		8
178	Minimum-error-probability receiver for detecting a noisy target in colored background noise. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 845.	0.8	7
179	Sequential testing of sorted and transformed data as an efficient way to implement long GLRTs. IEEE Transactions on Signal Processing, 2003, 51, 325-337.	3.2	7
180	An Optimization-Based Method for Dynamic Multiple Fault Diagnosis Problem. , 2007, , .		7

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181	Polynomial-Time Algorithms for the Exact MMOSPA Estimate of a Multi-Object Probability Density Represented by Particles. IEEE Transactions on Signal Processing, 2015, 63, 2476-2484.	3.2	7
182	Adaptive Bayesian tracking with unknown time-varying sensor network performance. , 2015, , .		7
183	The Effect of K-Distributed Clutter on Trackability. IEEE Transactions on Signal Processing, 2016, 64, 475-484.	3.2	7
184	The Multidimensional Cram�r-Rao-Leibniz Lower Bound for Likelihood Functions With Parameter-Dependent Support. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2331-2343.	2.6	7
185	EM approach for tracking star-convex extended objects. , 2017, , .		7
186	Resolution Limits for Tracking Closely Spaced Targets. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2900-2910.	2.6	7
187	Making Decisions with Shuffled Bits. , 2019, , .		7
188	Uncertainty-Aware Recurrent Encoder-Decoder Networks for Vessel Trajectory Prediction. , 2021, , .		7
189	Robust signal selection for the matched filter. IEEE Transactions on Signal Processing, 1991, 39, 2559-2563.	3.2	6
190	Detection, Synchronization, and Doppler Scale Estimation with Multicarrier Waveforms in Underwater Acoustic Communication. , 2008, , .		6
191	The role of the ambiguity function in compressed sensing radar. , 2010, , .		6
192	Comparison of data reduction techniques based on the performance of SVM-type classifiers. , 2010, , .		6
193	Simplification of the Dynamic Cram�r-Rao Bound for Target Tracking in Clutter. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1481-1482.	2.6	6
194	Some Analysis of the LPI Concept for Active Sonar. IEEE Journal of Oceanic Engineering, 2012, 37, 446-455.	2.1	6
195	A fast coalescence-avoiding JPDAF. , 2012, , .		6
196	Localization of Mobile Nodes in an Underwater Distributed Antenna System. , 2014, , .		6
197	Resource Allocation in Energy-Harvesting Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 585-598.	1.6	6
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