Wei Yi

List of Publications by Year in Descending Order

126 papers	**2,049** citations	**27** h-index	**40** g-index
191 ext. papers	**3,008** ext. citations	**3.7** avg, IF	**5.65** L-index

#	Paper	IF	Citations
126	Exponential Mixture Density based Approximation to Posterior Cramr-Rao Lower Bound for Distributed Target Tracking. *IEEE Transactions on Signal Processing*, **2022**, 1-1	4.8	3
125	Multi-agent fusion with different limited fields-of-view. *IEEE Transactions on Signal Processing*, **2022**, 1-1	4.8	1
124	A GDOP-Based Performance Description of TOA Localization with Uncertain Measurements. *Remote Sensing*, **2022**, 14, 910	5	2
123	Trajectory PHD and CPHD Filters with Unknown Detection Profile. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	
122	Multi-target Detection Strategy for Distributed MIMO Radar with Widely Separated Antennas. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	2
121	Dynamic Sensor Scheduling for Target Tracking in Wireless Sensor Networks with Cost Minimization Objective. *IEEE Internet of Things Journal*, **2022**, 1-1	10.7	
120	Joint tracking sequence and dwell time allocation for multi-target tracking with phased array radar. *Signal Processing*, **2021**, 192, 108374	4.4	1
119	Joint Online Route Planning and Resource Optimization for Multitarget Tracking in Airborne Radar Systems. *IEEE Systems Journal*, **2021**, 1-12	4.3	2
118	Joint Jamming Beam and Power Scheduling for Suppressing Netted Radar System **2021**,		1
117	Multiple Model Poisson Multi-Bernoulli Mixture Filter for Maneuvering Targets. *IEEE Sensors Journal*, **2021**, 21, 3143-3154	4	2
116	Heterogeneous Multi-Sensor Fusion With Random Finite Set Multi-Object Densities. *IEEE Transactions on Signal Processing*, **2021**, 69, 3399-3414	4.8	4
115	A Fast Approach for Detection and Parameter Estimation of Maneuvering Target With Complex Motions in Coherent Radar System. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	1
114	Non-Cooperative Passive Direct Localization Based on Waveform Estimation. *Remote Sensing*, **2021**, 13, 264	5	1
113	Distributed multi-view multi-target tracking based on CPHD filtering. *Signal Processing*, **2021**, 188, 108210	4.4	3
112	Continuous-Discrete Multiple Target Tracking With Out-of-Sequence Measurements. *IEEE Transactions on Signal Processing*, **2021**, 69, 4699-4709	4.8	2
111	Robust Poisson Multi-Bernoulli Mixture Filter With Unknown Detection Probability. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 886-899	6.8	4
110	Robust Power Allocation for Resource-Aware Multi-Target Tracking With Colocated MIMO Radars. *IEEE Transactions on Signal Processing*, **2021**, 69, 443-458	4.8	26

109	Suboptimal Low Complexity Joint Multi-Target Detection and Localization for Non-Coherent MIMO Radar With Widely Separated Antennas. *IEEE Transactions on Signal Processing*, **2020**, 68, 901-916	4.8	21
108	Multi-PRF and multi-frame track-before-detect algorithm in multiple PRF radar system. *Signal Processing*, **2020**, 174, 107648	4.4	8
107	Resource Scheduling for Distributed Multi-Target Tracking in Netted Colocated MIMO Radar Systems. *IEEE Transactions on Signal Processing*, **2020**, 68, 1602-1617	4.8	53
106	Multi-Frame Track-Before-Detect Algorithm for Maneuvering Target Tracking. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 4104-4118	6.8	33
105	The multiple model multi-Bernoulli filter based track-before-detect using a likelihood based adaptive birth distribution. *Signal Processing*, **2020**, 171, 107501	4.4	7
104	Hypersonic Target Detection and Velocity Estimation in Coherent Radar System Based on Scaled Radon Fourier Transform. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 6525-6540	6.8	16
103	A Decentralized PHD Filter for Multi-target Tracking in Asynchronous Multi-static Radar System **2020**,		1
102	Computationally Efficient Distributed Multi-Sensor Fusion With Multi-Bernoulli Filter. *IEEE Transactions on Signal Processing*, **2020**, 68, 241-256	4.8	24
101	Distributed Multi-Sensor Fusion of PHD Filters With Different Sensor Fields of View. *IEEE Transactions on Signal Processing*, **2020**, 68, 5204-5218	4.8	11
100	Distributed multi-sensor multi-view fusion based on generalized covariance intersection. *Signal Processing*, **2020**, 166, 107246	4.4	17
99	WRFRFT-based coherent detection and parameter estimation of radar moving target with unknown entry/departure time. *Signal Processing*, **2020**, 166, 107228	4.4	18
98	Scaled accuracy based power allocation for multi-target tracking with colocated MIMO radars. *Signal Processing*, **2019**, 158, 227-240	4.4	33
97	Asynchronous multi-rate multi-sensor fusion based on random finite set. *Signal Processing*, **2019**, 160, 113-126	4.4	14
96	STGRFT for Detection of Maneuvering Weak Target With Multiple Motion Models. *IEEE Transactions on Signal Processing*, **2019**, 67, 1902-1917	4.8	37
95	Direct position determination of multiple coherent sources using an iterative adaptive approach. *Signal Processing*, **2019**, 161, 203-213	4.4	11
94	Radar Selection Based on the Measurement Information and the Measurement Compensation for Target Tracking in Radar Network. *IEEE Sensors Journal*, **2019**, 19, 7923-7935	4	6
93	An agile multi-frame detection method for targets with time-varying existence. *Signal Processing*, **2019**, 165, 133-143	4.4	11
92	Particle filtering based track-before-detect method for passive array sonar systems. *Signal Processing*, **2019**, 165, 303-314	4.4	23

91	Computationally Efficient CPHD Fusion based on Generalized Covariance Intersection **2019**,		1
90	Network Cost Based Node Selection Strategy for Multiple Target Tracking in Netted Radar System **2019**,		2
89	Track-before-detect algorithm for airborne radar system. *Journal of Engineering*, **2019**, 2019, 6620-6624	0.7	0
88	Data-driven XGBoost-based filter for target tracking. *Journal of Engineering*, **2019**, 2019, 6683-6687	0.7	2
87	Multi-frame track-before-detect algorithm for disambiguation. *Journal of Engineering*, **2019**, 2019, 7726-7729	0.7	1
86	Efficient multi-sensor path scheduling for cooperative target tracking. *Journal of Engineering*, **2019**, 2019, 6300-6304	0.7	
85	Radar Detection and Parameter Estimation of High-Speed Target Based on MART-LVT. *IEEE Sensors Journal*, **2019**, 19, 1478-1486	4	20
84	Computationally Efficient Multi-Agent Multi-Object Tracking With Labeled Random Finite Sets. *IEEE Transactions on Signal Processing*, **2019**, 67, 260-275	4.8	33
83	Computationally efficient coherent detection and parameter estimation algorithm for maneuvering target. *Signal Processing*, **2019**, 155, 130-142	4.4	36
82	Deployment of multistatic radar system using multi-objective particle swarm optimisation. *IET Radar, Sonar and Navigation*, **2018**, 12, 485-493	1.4	21
81	Multi-static radar power allocation for multi-stage stochastic task of missile interception. *IET Radar, Sonar and Navigation*, **2018**, 12, 540-548	1.4	6
80	. *IEEE Transactions on Aerospace and Electronic Systems*, **2018**, 54, 190-204	3.7	25
79	. *IEEE Transactions on Aerospace and Electronic Systems*, **2018**, 54, 2421-2436	3.7	33
78	Joint Node Selection and Power Allocation Strategy for Multitarget Tracking in Decentralized Radar Networks. *IEEE Transactions on Signal Processing*, **2018**, 66, 729-743	4.8	70
77	Robust Distributed Fusion With Labeled Random Finite Sets. *IEEE Transactions on Signal Processing*, **2018**, 66, 278-293	4.8	50
76	. *IEEE Transactions on Aerospace and Electronic Systems*, **2018**, 54, 476-485	3.7	8
75	A Coherent Detection and Velocity Estimation Algorithm for the High-Speed Target Based on the Modified Location Rotation Transform. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 2346-2361	4.7	30
74	Passive direct positioning of emitters with unknown LFM signals based on FRFT **2018**,		1

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73	Multiobject Tracking for Generic Observation Model Using Labeled Random Finite Sets. *IEEE Transactions on Signal Processing*, **2018**, 66, 368-383	4.8	24
72	A Complete Power Allocation Framework for Multiple Target Tracking with the Purpose of Minimizing the Transmit Power **2018**,		1
71	Multi-Sensor Multi-Object Tracking with Different Fields-of-View Using the LMB Filter **2018**,		12
70	Track-Before-Detect Strategies for Multiple-PRF Radar System with Range and Doppler Ambiguities **2018**,		2
69	. *IEEE Transactions on Aerospace and Electronic Systems*, **2017**, 53, 1573-1580	3.7	37
68	Multiframe Radar Detection of Fluctuating Targets Using Phase Information. *IEEE Transactions on Aerospace and Electronic Systems*, **2017**, 53, 736-749	3.7	41
67	Detection of weak maneuvering target based on keystone transform and matched filtering process. *Signal Processing*, **2017**, 140, 127-138	4.4	41
66	. *IEEE Transactions on Aerospace and Electronic Systems*, **2017**, 53, 2516-2533	3.7	37
65	. *IEEE Transactions on Aerospace and Electronic Systems*, **2017**, 53, 1045-1054	3.7	24
64	Distributed multi-sensor fusion using generalised multi-Bernoulli densities. *IET Radar, Sonar and Navigation*, **2017**, 11, 434-443	1.4	21
63	Joint estimation of location and signal parameters for an LFM emitter. *Signal Processing*, **2017**, 134, 100-112	4.4	14
62	Emitter localization based on signal waveform estimation **2017**,		2
61	Radar waveform design against signal-dependent jamming **2017**,		3
60	A particle filter based track-before-detect procedure for towed passive array sonar system **2017**,		1
59	Range walk correction and velocity estimation for high-speed target detection **2017**,		6
58	Detection of weak maneuvering target based on KT-MFP **2017**,		2
57	An efficient coherent multi-frame track-before-detect algorithm in radar systems **2017**,		3
56	Detection and RM correction approach for manoeuvring target with complex motions. *IET Signal Processing*, **2017**, 11, 378-386	1.7	6

55	Distributed Fusion With Multi-Bernoulli Filter Based on Generalized Covariance Intersection. *IEEE Transactions on Signal Processing*, **2017**, 65, 242-255	4.8	63
54	Radar maneuvering target detection and motion parameter estimation based on TRT-SGRFT. *Signal Processing*, **2017**, 133, 107-116	4.4	29
53	Coherent unambiguous transmit for sparse linear array with geography constraint. *IET Radar, Sonar and Navigation*, **2017**, 11, 386-393	1.4	4
52	Distributed sensor fusion for RFS density with consideration of limited sensing ability **2017**,		8
51	A joint beam and dwell time allocation strategy for multiple target tracking based on phase array radar system **2017**,		2
50	A real-time fusion algorithm for asynchronous sensor system with PHD filter **2017**,		1
49	Constant false alarm rate performance prediction for non-independent and non-identically distributed gamma fluctuating targets. *IET Radar, Sonar and Navigation*, **2016**, 10, 992-1000	1.4	1
48	Joint selection and power allocation strategy for target tracking in decentralized multiple radar systems **2016**,		5
47	Receive-beam allocation for multiple target tracking with distributed MIMO radar systems **2016**,		2
46	Coupled sequential detection and estimation procedure for track-before-detect. *IET Radar, Sonar and Navigation*, **2016**, 10, 1168-1177	1.4	1
45	Manoeuvring target detection based on keystone transform and Lv's distribution. *IET Radar, Sonar and Navigation*, **2016**, 10, 1234-1242	1.4	34
44	Design and application of dynamic environmental knowledge base. *IET Radar, Sonar and Navigation*, **2016**, 10, 1118-1126	1.4	4
43	Fast Non-Searching Method for Maneuvering Target Detection and Motion Parameters Estimation. *IEEE Transactions on Signal Processing*, **2016**, 64, 2232-2244	4.8	111
42	A low complexity coherent integration method for maneuvering target detection **2016**, 49, 137-147		35
41	A multi-frame track-before-detect algorithm for maneuvering targets in radar system **2016**,		6
40	CLEAN-based coherent integration method for high-speed multi-targets detection. *IET Radar, Sonar and Navigation*, **2016**, 10, 1671-1682	1.4	39
39	. *IEEE Transactions on Aerospace and Electronic Systems*, **2016**, 52, 2803-2814	3.7	36
38	. *IEEE Transactions on Aerospace and Electronic Systems*, **2016**, 52, 2184-2192	3.7	2

37	Track-before-detect strategies for range distributed target detection in compound-Gaussian clutter. *Signal Processing*, **2016**, 120, 462-467	4.4	21
36	*. IEEE Transactions on Aerospace and Electronic Systems*, **2016**, 52, 492-500	3.7	14
35	Knowledge-Based Track-Before-Detect Strategies for Fluctuating Targets in K -Distributed Clutter. *IEEE Sensors Journal*, **2016**, 16, 7124-7132	4	17
34	Coherent Integration Algorithm for a Maneuvering Target With High-Order Range Migration. *IEEE Transactions on Signal Processing*, **2015**, 63, 4474-4486	4.8	81
33	Cramer-Rao lower bound for multitarget localization with noncoherent statistical MIMO radar **2015** ,		5
32	A fast implementation of Dynamic Programming based Track-Before-Detect for radar system **2015**,		5
31	*. IEEE Signal Processing Letters*, **2015**, 22, 1955-1959	3.2	27
30	A modified adaptive multi-pulse compression algorithm for fast implementation **2015**,		3
29	*. IEEE Sensors Journal*, **2015**, 15, 6722-6729	4	25
28	Coherent Integration for Maneuvering Target Detection Based on Radon-Lv□ Distribution. *IEEE Signal Processing Letters*, **2015**, 22, 1467-1471	3.2	113
27	Range migration correction for maneuvering target based on generalized keystone transform **2015** ,		8
26	Track-before-detect for fluctuating targets using phase information **2015**,		1
25	Particle filtering for target tracking using plot-sequences of multi-frame track before detect **2015**,		3
24	A computationally efficient recursive processing for multi-frame track-before-detect **2015**,		3
23	ISAR imaging of maneuvering target with complex motions based on ACCF□VD **2015**, 46, 191-200		23
22	Adaptive detection and estimation for an unknown occurring interval signal in correlated Gaussian noise. *Signal Processing*, **2015**, 108, 440-450	4.4	3
21	A Fast Maneuvering Target Motion Parameters Estimation Algorithm Based on ACCF. *IEEE Signal Processing Letters*, **2015**, 22, 270-274	3.2	85
20	Distributed fusion with multi-Bernoulli filter based on generalized Covariance Intersection **2015**,		4

19	CFAR detector based on clutter partition in heterogeneous background **2015**,		1
18	High speed maneuvering target detection based on joint keystone transform and CP function **2014**,		8
17	Track-before-detect for fluctuating targets in heterogeneous clutter **2014**,		7
16	Range limited adaptive pulse compression via linear Bayes estimation **2014**,		1
15	Multiple sensor Multi-Bernoulli filter based track-before-detect for polarimetric MIMO radars **2014**,		1
14	Distributed MIMO radar detection with channel evaluation and selection strategy **2014**,		3
13	Multi-target localization for noncoherent MIMO radar with widely separated antennas **2014**,		3
12	Adaptive Bayesian detection using polarimetric MIMO radar in spatially heterogeneous clutter **2014**,		1
11	Dynamic factorization based multi-target Bayesian filter for multi-target detection and tracking **2014**,		3
10	Multi-Bernoulli filter based track-before-detect for Jump Markov models **2014**,		2
9	An efficient multi-target track-before-detect algorithm for low PRF surveillance radars **2014**,		4
8	Phase-Modulated Waveform Evaluation and Selection Strategy in Compound-Gaussian Clutter. *IEEE Transactions on Signal Processing*, **2013**, 61, 1143-1148	4.8	7
7	A Computationally Efficient Particle Filter for Multitarget Tracking Using an Independence Approximation. *IEEE Transactions on Signal Processing*, **2013**, 61, 843-856	4.8	50
6	An Efficient Multi-Frame Track-Before-Detect Algorithm for Multi-Target Tracking. *IEEE Journal on Selected Topics in Signal Processing*, **2013**, 7, 421-434	7.5	69
5	Thresholding Process Based Dynamic Programming Track-Before-Detect Algorithm. *IEICE Transactions on Communications*, **2013**, E96.B, 291-300	0.5	26
4	. *IEEE Aerospace and Electronic Systems Magazine*, **2012**, 27, 31-33	2.4	4
3	Multi-target tracking via dynamic-programming based track-before-detect **2012**,		1
2	A Modified Dynamic Programming Approach for Dim Target Detection and Tracking **2009**,		2