Huadong Meng

List of Publications by Year
in descending order

63 papers	**900** citations	687363 **13** h-index	580821 **25** g-index
63 all docs	**63** docs citations	**63** times ranked	**734** citing authors

#	ARTICLE	IF	CITATIONS
1	Direct data domain STAP using sparse representation of clutter spectrum. Signal Processing, 2011, 91, 2222-2236.	3.7	127
2	Performance Limits and Geometric Properties of Array Localization. IEEE Transactions on Information Theory, 2016, 62, 1054-1075.	2.4	116
3	Cognitive random stepped frequency radar with sparse recovery. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 858-870.	4.7	85
4	Velocity Estimation and Range Shift Compensation for High Range Resolution Profiling in Stepped-Frequency Radar. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 791-795.	3.1	59
5	A novel STAP algorithm using sparse recovery technique. , 2009, , .		56
6	A Low-cost Vehicle Detection and Classification System based on Unmodulated Continuous-wave Radar. , 2007, , .		43
7	Range and Velocity Estimation of Moving Targets Using Multiple Stepped-frequency Pulse Trains. Sensors, 2008, 8, 1343-1350.	3.8	38
8	Randomized Switched Antenna Array FMCW Radar for Automotive Applications. IEEE Transactions on Vehicular Technology, 2014, 63, 3624-3641.	6.3	37
9	Motion Compensation of Moving Targets for High Range Resolution Stepped-Frequency Radar. Sensors, 2008, 8, 3429-3437.	3.8	35
10	Collaborative penalized Gaussian mixture PHD tracker for close target tracking. Signal Processing, 2014, 102, 1-15.	3.7	25
11	Fundamental Limits of HRR Profiling and Velocity Compensation for Stepped-Frequency Waveforms. IEEE Transactions on Signal Processing, 2014, 62, 4490-4504.	5.3	21
12	Phase-Modulated Waveform Design for Extended Target Detection in the Presence of Clutter. Sensors, 2011, 11, 7162-7177.	3.8	20
13	A Constant Speed Changing Rate and Constant Turn Rate Model for Maneuvering Target Tracking. Sensors, 2014, 14, 5239-5253.	3.8	20
14	Jointly sparse recovery of multiple snapshots in STAP. , 2013, , .		17
15	Sparse recovery–based space–time adaptive processing with array error self–calibration. Electronics Letters, 2014, 50, 952-954.	1.0	16
16	Vehicle Frontal Collision Warning System based on Improved Target Tracking and Threat Assessment. , 2007, , .		15
17	Adaptive Compressed Sensing via Minimizing Cramér–Rao Bound. IEEE Signal Processing Letters, 2014, 21, 270-274.	3.6	14
18	Radar Waveform Design for Extended Target Recognition under Detection Constraints. Mathematical Problems in Engineering, 2012, 2012, 1-15.	1.1	11

#	Article	IF	Citations
19	Suppressing autocorrelation sidelobes of LFM pulse trains with genetic algorithm. Tsinghua Science and Technology, 2008, 13, 800-806.	6.1	10
20	Extended target tracking using an IMM based Rao-Blackwellised unscented Kalman filter. , 2008, , .		10
21	A Comparison of Posterior Cramér–Rao Bounds for Point and Extended Target Tracking. IEEE Signal Processing Letters, 2010, 17, 819-822.	3.6	10
22	A novel STAP method based on structured sparse recovery of clutter spectrum. , 2015, , .		8
23	Tracking Ground Vehicles in Heavy-traffic Video by Grouping Tracks of Vehicle Corners. , 2007, , .		7
24	Multitarget Tracking Before Detection via Probability Hypothesis Density Filter. , 2010, , .		7
25	FMCW Radar Imaging with Multi-channel Antenna Array via Sparse Recovery Technique. , 2010, , .		6
26	Radar phase-modulated waveform design for extended target detection. Tsinghua Science and Technology, 2011, 16, 364-370.	6.1	6
27	THE INFLUENCE OF INDIVIDUAL DRIVER CHARACTERISTICS ON CONGESTION FORMATION. International Journal of Modern Physics C, 2011, 22, 305-318.	1.7	6
28	A novel target motion compensation method for randomized stepped frequency ISAR. , 2013, , .		6
29	Radar sea clutter suppression and target indication with a spatial tracking filter. Tsinghua Science and Technology, 2010, 15, 228-234.	6.1	5
30	Performance Bound for Extended Target Tracking Using High Resolution Sensors. Sensors, 2010, 10, 11618-11632.	3.8	5
31	A shrinkage probability hypothesis density filter for multitarget tracking. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	5
32	Cast Vehicle Shadow Segmentation Based on Contour Analysis. , 2007, , .		4
33	Hybrid Method of DOA Estimation for Low-Angle Target Tracking. , 2010, , .		4
34	Randomized step frequency radar with adaptive compressed sensing. , 2011, , .		4
35	Optimization of radar phase-coded signals for multiple target detection. Signal Processing, 2014, 100, 186-196.	3.7	4
36	A GMM-based Algorithm for Classification of Radar emitters. , 2008, , .		3

#	Article	IF	Citations
37	Phase-modulated waveform design for the target detection in the presence of signal-dependent clutter. , 2010, , .		3
38	Extended range profiling in stepped-frequency radar with sparse recovery. , 2011, , .		3
39	Conformal-array STAP using sparse representation. , 2011, , .		3
40	Radar phase-coded waveform design for extended target recognition under detection constraints. , 2011, , .		3
41	Track probability hypothesis density filter for multi-target tracking. , 2011, , .		3
42	Performance bounds of extended target tracking in cluttered environments. Science China Information Sciences, 2013, 56, 1-12.	4.3	3
43	A Multiple Hypothesis Tracking Method for Extended Target Tracking. , 2010, , .		2
44	TLS-FOCUSS for sparse recovery with perturbed dictionary. , 2011, , .		2
45	A mutual information-based time-frequency atom extraction algorithm for radar emitter recognition. , 2011, , .		2
46	A Comparison of Error Bounds for a Nonlinear Tracking System with Detection Probability Pd < 1. Sensors, 2012, 12, 17390-17413.	3.8	2
47	Wireless indoor localization based on multispectral waterfall maps. , 2014, , .		2
48	Maneuvering Target Tracking Using Delayed Update Filter. , 2006, , .		1
49	Steady-State analysis of target tracker with constant input/bias constraint. Tsinghua Science and Technology, 2008, 13, 35-42.	6.1	1
50	Radar sea clutter suppression and target detection with &#x03B1;-&#x03B2;-&#x03B3; filter. , 2008, , .		1
51	Evaluation and Improvement of Required Deceleration Algorithm in Frontal Collision Warning Systems. , 2008, , .		1
52	Improved GMPHD tracker with delayed decision. , 2010, , .		1
53	An improved FOCUSS algorithm for multi-channel FMCW radar imaging of distributed targets. , 2011, , .		1
54	A Feature Selection Method Based on the Sparse Multi-Class SVM for Fingerprinting Localization. , 2014, , .		1

#	Article	IF	Citations
55	Biparametric clutter-map CFAR processor independent of original clutter distribution. , 0, , .		0
56	An approach based on influence function to evaluate robustness and detection performance of CFAR detectors. , 0, , .		0
57	Fusion-based Target Tracker for Sector Scan Radar. , 2006, , .		0
58	Nonlinear Analysis of Individual Vehicle Behavior in Car Following. , 2008, , .		0
59	Automatic content classification of digital modulation signals without binary sequence recovery. , 2012, , .		0
60	Random switch antenna array FMCW radar and its signal processing method. , 2012, , .		0
61	The recursive form of error bounds for RFS state and observation with $P_d < 1$. , 2012, , .		0
62	A cloud platform for distributed spectrum sensing. , 2014, , .		0
63	On recovery of sparse signals with block structures. , 2015, , .		0