

# Antonia Papandreou-Suppappola

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

810  
citations

687363

13  
h-index

677142

22  
g-index

63  
all docs

63  
docs citations

63  
times ranked

531  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computationally Efficient Estimation of Compound K-Distribution Sea Clutter in Thermal Noise and Its Application to Sea Echo Reflectivity Observations. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2340-2350.	4.7	4
2	Transfer Learning with Bayesian Filtering for Object Tracking Under Varying Conditions. , 2020, , .		1
3	Asymptotically Efficient Estimation of Sea Clutter Intensity Model Parameters Using Log-based Moments. , 2019, , .		0
4	Estimation of Compound K-distribution Modeling Parameters of Sea Clutter with Unknown Thermal Noise Power. , 2018, , .		2
5	Generalized Recursive Track-Before-Detect With Proposal Partitioning for Tracking Varying Number of Multiple Targets in Low SNR. IEEE Transactions on Signal Processing, 2016, 64, 2819-2834.	5.3	25
6	Estimation of rapidly varying sea clutter using nearest Kronecker product approximation. , 2015, , .		2
7	An adaptive learning damage estimation method for structural health monitoring. Journal of Intelligent Material Systems and Structures, 2015, 26, 125-143.	2.5	42
8	Biosequence Timeâ€“Frequency Processing: Pathogen Detection and Identification. Applied and Numerical Harmonic Analysis, 2015, , 65-85.	0.3	0
9	An overview of recent advances on distributed and agile sensing algorithms and implementation. , 2015, 39, 1-14.		13
10	Multiple target track-before-detect in compound Gaussian clutter. , 2015, , .		6
11	Low RCS Target Tracking in Estimated Rapidly Varying Sea Clutter Using a Kronecker Product Approximation Algorithm. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1639-1649.	10.8	9
12	Radar tracking waveform design in continuous space and optimization selection using differential evolution. , 2014, , .		3
13	Waveform selection for range and Doppler estimation via Barankin bound signal-to-noise ratio threshold. , 2014, , .		3
14	Applying matching pursuit decomposition time-frequency processing to UGS footprint classification. Proceedings of SPIE, 2013, , .	0.8	2
15	Waveform processing for protein multi-alignment by mapping location, structure and property function attributes. , 2013, , .		1
16	Active sensing waveform design for estimating progressive fatigue damage in structures. Proceedings of SPIE, 2013, , .	0.8	0
17	Waveform-agile multiple target tracking using probability hypothesis density filtering. , 2012, , .		0
18	Adaptive highly localized waveform design for multiple target tracking. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	5

#	ARTICLE	IF	CITATIONS
19	Time-Scale and Dispersive Processing for Wideband Time-Varying Channels. , 2011, , 375-416.		2
20	Waveform Mapping and Time-Frequency Processing of DNA and Protein Sequences. IEEE Transactions on Signal Processing, 2011, 59, 4210-4224.	5.3	7
21	Nonstationary System Analysis Methods for Underwater Acoustic Communications. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	4
22	Adaptive measurement selection for progressive damage estimation. , 2011, , .		0
23	Design and performance of an integrated waveform-agile multi-modal track-before-detect sensing system. , 2011, , .		1
24	Algorithm and Parallel Implementation of Particle Filtering and its Use in Waveform-Agile Sensing. Journal of Signal Processing Systems, 2011, 65, 211-227.	2.1	15
25	Active learning data selection for adaptive online structural damage estimation. , 2010, , .		2
26	A new parallel implementation for particle filters and its application to adaptive waveform design. , 2010, , .		15
27	Agile multi-modal tracking with dependent measurements. , 2010, , .		8
28	Adaptive High-Resolution Sensor Waveform Design for Tracking. Synthesis Lectures on Algorithms and Software in Engineering, 2010, 2, 1-109.	0.1	0
29	MIMO Radar with Frequency Diversity. , 2009, , .		46
30	Monte-Carlo Based Estimation Methods for Rapidly-Varying Sea Clutter. , 2009, , .		5
31	Waveform-agile sensing for range and DoA estimation in MIMO radars. , 2009, , .		5
32	Adaptive waveform design in rapidly-varying radar scenes. , 2009, , .		7
33	Damage Classification Structural Health Monitoring in Bolted Structures Using Time-frequency Techniques. Journal of Intelligent Material Systems and Structures, 2009, 20, 1289-1305.	2.5	33
34	On the Use of Hidden Markov Modeling and Time-frequency Features for Damage Classification in Composite Structures. Journal of Intelligent Material Systems and Structures, 2009, 20, 1271-1288.	2.5	18
35	Cram&#x00E9;r-Rao lower bounds for the joint estimation of target attributes using MIMO radar. , 2009, , .		2
36	Waveform-agile sensing for tracking. IEEE Signal Processing Magazine, 2009, 26, 53-64.	5.6	90

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37	A comparative study of fatigue damage sensing in aluminum alloys using electrical impedance and laser ultrasonic methods. , 2009, , .		2
38	Compressive sensing and waveform design for the identification of Linear time-varying systems. , 2008, , .		2
39	DNA sequence alignment using the matching pursuit decomposition. , 2008, , .		4
40	Dynamic waveform design for target tracking using MIMO radar. , 2008, , .		16
41	Efficient mapping of advanced signal processing algorithms on multi-processor architectures. , 2008, , .		6
42	Physics based modeling for time-frequency damage classification. , 2008, , .		6
43	Ultrasonic sensing and time-frequency analysis for detecting plastic deformation in an aluminum plate. , 2008, , .		7
44	Advances in Waveform-Agile Sensing for Tracking. Synthesis Lectures on Algorithms and Software in Engineering, 2008, 1, 1-83.	0.1	12
45	Sequential Monte Carlo Methods for Shallow Water Tracking Using Multiple Sensors with Adaptive Frequency Selection. , 2007, , .		0
46	Time-Frequency Based Waveform and Receiver Design for Shallow Water Communications. , 2007, , .		6
47	On the Use of Binary Programming for Sensor Scheduling. IEEE Transactions on Signal Processing, 2007, 55, 2826-2839.	5.3	33
48	Sensor Resource Allocation for Tracking Using Outer Approximation. IEEE Signal Processing Letters, 2007, 14, 213-216.	3.6	19
49	Waveform-agile tracking in heavy sea clutter. , 2007, , .		5
50	Time-Frequency Modeling of Shallow Water Environments: Rigid vs. Fluid Seabed. , 2007, , .		3
51	Discrete Time-Frequency Characterizations of Dispersive Linear Time-Varying Systems. IEEE Transactions on Signal Processing, 2007, 55, 2066-2076.	5.3	23
52	Dynamic Configuration of Time-Varying Waveforms for Agile Sensing and Tracking in Clutter. IEEE Transactions on Signal Processing, 2007, 55, 3207-3217.	5.3	98
53	Target tracking using particle filtering and CAZAC sequences. , 2007, , .		12
54	Diversity in Shallow Water Environments Using Blind Time-Frequency Separation Techniques. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	3

#	ARTICLE	IF	CITATIONS
55	Adaptive Waveform Design for Improved Detection of Low-RCS Targets in Heavy Sea Clutter. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 56-66.	10.8	73
56	Characterization of shallow water environments and waveform design for diversity. , 2006, , .		1
57	Characterization of waveform performance in clutter for dynamically configured sensor systems. , 2006, , .		6
58	Nonmyopic Sensor Scheduling and its Efficient Implementation for Target Tracking Applications. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	23
59	Waveform-Agile Sensing for Tracking Multiple Targets in Clutter. , 2006, , .		16
60	A Subspace-Based Approach to Sea Clutter Suppression for Improved Target Detection. , 2006, , .		20
61	Classification of Acoustic Emissions Using Modified Matching Pursuit. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	24
62	Time-Frequency Processing. Electrical Engineering and Applied Signal Processing Series, 2002, , 1-84.	1.2	12
63	Synthesis of dispersive signals and applications in wireless communications. , 2002, , .		0