# Antonia Papandreou-Suppappola

## List of Publications by Year
in descending order

| | | |
|---|---|---|
| **63** papers | **810** citations | 687363 **13** h-index |
| **63** all docs | **63** docs citations | **63** times ranked |

677142 **22** g-index

**531** citing authors

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | 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 |
| 2 | Waveform-agile sensing for tracking. IEEE Signal Processing Magazine, 2009, 26, 53-64. | 5.6 | 90 |
| 3 | 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 |
| 4 | MIMO Radar with Frequency Diversity. , 2009, , . | | 46 |
| 5 | An adaptive learning damage estimation method for structural health monitoring. Journal of Intelligent Material Systems and Structures, 2015, 26, 125-143. | 2.5 | 42 |
| 6 | On the Use of Binary Programming for Sensor Scheduling. IEEE Transactions on Signal Processing, 2007, 55, 2826-2839. | 5.3 | 33 |
| 7 | 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 |
| 8 | 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 |
| 9 | Classification of Acoustic Emissions Using Modified Matching Pursuit. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1. | 1.7 | 24 |
| 10 | Nonmyopic Sensor Scheduling and its Efficient Implementation for Target Tracking Applications. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1. | 1.7 | 23 |
| 11 | Discrete Time-Frequency Characterizations of Dispersive Linear Time-Varying Systems. IEEE Transactions on Signal Processing, 2007, 55, 2066-2076. | 5.3 | 23 |
| 12 | A Subspace-Based Approach to Sea Clutter Suppression for Improved Target Detection. , 2006, , . | | 20 |
| 13 | Sensor Resource Allocation for Tracking Using Outer Approximation. IEEE Signal Processing Letters, 2007, 14, 213-216. | 3.6 | 19 |
| 14 | 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 |
| 15 | Waveform-Agile Sensing for Tracking Multiple Targets in Clutter. , 2006, , . | | 16 |
| 16 | Dynamic waveform design for target tracking using MIMO radar. , 2008, , . | | 16 |
| 17 | A new parallel implementation for particle filters and its application to adaptive waveform design. , 2010, , . | | 15 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 19 | An overview of recent advances on distributed and agile sensing algorithms and implementation. , 2015, 39, 1-14. | | 13 |
| 20 | Timeâ€šÃ„Ã¬Frequency Processing. Electrical Engineering and Applied Signal Processing Series, 2002, , 1-84. | 1.2 | 12 |
| 21 | Target tracking using particle filtering and CAZAC sequences. , 2007, , . | | 12 |
| 22 | Advances in Waveform-Agile Sensing for Tracking. Synthesis Lectures on Algorithms and Software in Engineering, 2008, 1, 1-83. | 0.1 | 12 |
| 23 | 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 |
| 24 | Agile multi-modal tracking with dependent measurements. , 2010, , . | | 8 |
| 25 | Ultrasonic sensing and time-frequency analysis for detecting plastic deformation in an aluminum plate. , 2008, , . | | 7 |
| 26 | Adaptive waveform design in rapidly-varying radar scenes. , 2009, , . | | 7 |
| 27 | Waveform Mapping and Time-Frequency Processing of DNA and Protein Sequences. IEEE Transactions on Signal Processing, 2011, 59, 4210-4224. | 5.3 | 7 |
| 28 | Characterization of waveform performance in clutter for dynamically configured sensor systems. , 2006, , . | | 6 |
| 29 | Time-Frequency Based Waveform and Receiver Design for Shallow Water Communications. , 2007, , . | | 6 |
| 30 | Efficient mapping of advanced signal processing algorithms on multi-processor architectures. , 2008, , . | | 6 |
| 31 | Physics based modeling for time-frequency damage classification. , 2008, , . | | 6 |
| 32 | Multiple target track-before-detect in compound Gaussian clutter. , 2015, , . | | 6 |
| 33 | Waveform-agile tracking in heavy sea clutter. , 2007, , . | | 5 |
| 34 | Monte-Carlo Based Estimation Methods for Rapidly-Varying Sea Clutter. , 2009, , . | | 5 |
| 35 | Waveform-agile sensing for range and DoA estimation in MIMO radars. , 2009, , . | | 5 |
| 36 | Adaptive highly localized waveform design for multiple target tracking. Eurasip Journal on Advances in Signal Processing, 2012, 2012, . | 1.7 | 5 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 37 | DNA sequence alignment using the matching pursuit decomposition. , 2008, , . | | 4 |
| 38 | Nonstationary System Analysis Methods for Underwater Acoustic Communications. Eurasip Journal on Advances in Signal Processing, 2011, 2011, . | 1.7 | 4 |
| 39 | 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 |
| 40 | Time-Frequency Modeling of Shallow Water Environments: Rigid vs. Fluid Seabed. , 2007, , . | | 3 |
| 41 | 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 |
| 42 | Radar tracking waveform design in continuous space and optimization selection using differential evolution. , 2014, , . | | 3 |
| 43 | Waveform selection for range and Doppler estimation via Barankin bound signal-to-noise ratio threshold. , 2014, , . | | 3 |
| 44 | Compressive sensing and waveform design for the identification of Linear time-varying systems. , 2008, , . | | 2 |
| 45 | Cram&amp;#x00E9;r-Rao lower bounds for the joint estimation of target attributes using MIMO radar. , 2009, , . | | 2 |
| 46 | A comparative study of fatigue damage sensing in aluminum alloys using electrical impedance and laser ultrasonic methods. , 2009, , . | | 2 |
| 47 | Active learning data selection for adaptive online structural damage estimation. , 2010, , . | | 2 |
| 48 | Time-Scale and Dispersive Processing for Wideband Time-Varying Channels. , 2011, , 375-416. | | 2 |
| 49 | Applying matching pursuit decomposition time-frequency processing to UGS footstep classification. Proceedings of SPIE, 2013, , . | 0.8 | 2 |
| 50 | Estimation of rapidly varying sea clutter using nearest Kronecker product approximation. , 2015, , . | | 2 |
| 51 | Estimation of Compound K-distribution Modeling Parameters of Sea Clutter with Unknown Thermal Noise Power. , 2018, , . | | 2 |
| 52 | Characterization of shallow water environments and waveform design for diversity. , 2006, , . | | 1 |
| 53 | Design and performance of an integrated waveform-agile multi-modal track-before-detect sensing system. , 2011, , . | | 1 |
| 54 | Waveform processing for protein multi-alignment by mapping location, structure and property function attributes. , 2013, , . | | 1 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 55 | Transfer Learning with Bayesian Filtering for Object Tracking Under Varying Conditions. , 2020, , . | | 1 |
| 56 | Synthesis of dispersive signals and applications in wireless communications. , 2002, , . | | 0 |
| 57 | Sequential Monte Carlo Methods for Shallow Water Tracking Using Multiple Sensors with Adaptive Frequency Selection. , 2007, , . | | 0 |
| 58 | Adaptive measurement selection for progressive damage estimation. , 2011, , . | | 0 |
| 59 | Waveform-agile multiple target tracking using probability hypothesis density filtering. , 2012, , . | | 0 |
| 60 | Active sensing waveform design for estimating progressive fatigue damage in structures. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 61 | Biosequence Timeâ€"Frequency Processing: Pathogen Detection and Identification. Applied and Numerical Harmonic Analysis, 2015, , 65-85. | 0.3 | 0 |
| 62 | Asymptotically Efficient Estimation of Sea Clutter Intensity Model Parameters Using Log-based Moments. , 2019, , . | | 0 |
| 63 | Adaptive High-Resolution Sensor Waveform Design for Tracking. Synthesis Lectures on Algorithms and Software in Engineering, 2010, 2, 1-109. | 0.1 | 0 |