

Anthony Doulgeris

List of Publications by Year in descending order

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71
papers

1,663
citations

331670

21
h-index

345221

36
g-index

75
all docs

75
docs citations

75
times ranked

1843
citing authors

#	ARTICLE	IF	CITATIONS
1	Leads in Arctic pack ice enable early phytoplankton blooms below snow-covered sea ice. Scientific Reports, 2017, 7, 40850.	3.3	259
2	Estimation of the Equivalent Number of Looks in Polarimetric Synthetic Aperture Radar Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3795-3809.	6.3	188
3	Classification With a Non-Gaussian Model for PolSAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2999-3009.	6.3	109
4	Correction and Characterization of Radio Frequency Interference Signatures in L-Band Synthetic Aperture Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4961-4972.	6.3	100
5	Automated Non-Gaussian Clustering of Polarimetric Synthetic Aperture Radar Images. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3665-3676.	6.3	73
6	Polarimetric SAR Change Detection With the Complex Hotelling's Lawley Trace Statistic. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3953-3966.	6.3	70
7	A Segmentation-Based CFAR Detection Algorithm Using Truncated Statistics. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2887-2898.	6.3	67
8	An Automatic χ^2 -Distribution and Markov Random Field Segmentation Algorithm for PolSAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1819-1827.	6.3	59
9	Cerro Toledo Rhyolite, Jemez Volcanic Field, New Mexico: $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of eruptions between two caldera-forming events. Bulletin of the Geological Society of America, 1996, 108, 1549-1566.	3.3	55
10	Analysis of Evolving Oil Spills in Full-Polarimetric and Hybrid-Polarity SAR. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4190-4210.	6.3	54
11	Comparison of feature based segmentation of full polarimetric SAR satellite sea ice images with manually drawn ice charts. Cryosphere, 2013, 7, 1693-1705.	3.9	52
12	Scale Mixture of Gaussian Modelling of Polarimetric SAR Data. Eurasip Journal on Advances in Signal Processing, 2009, 2010, .	1.7	45
13	Goodness-of-Fit Tests for Multilook Polarimetric Radar Data Based on the Mellin Transform. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2764-2781.	6.3	45
14	Monitoring Glacier Changes Using Multitemporal Multipolarization SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3729-3741.	6.3	44
15	A Textural Contextual Model for Unsupervised Segmentation of Multipolarization Synthetic Aperture Radar Images. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2442-2453.	6.3	41
16	Combined observations of Arctic sea ice with near-coincident colocated X-band, C-band, and L-band SAR satellite remote sensing and helicopter-borne measurements. Journal of Geophysical Research: Oceans, 2017, 122, 669-691.	2.6	33
17	Assessing polarimetric SAR sea-ice classifications using consecutive day images. Annals of Glaciology, 2015, 56, 285-294.	1.4	32
18	Mapping sea-ice types from Sentinel-1 considering the surface-type dependent effect of incidence angle. Annals of Glaciology, 2020, 61, 260-270.	1.4	32

#	ARTICLE	IF	CITATIONS
19	An Optimal Decision-Tree Design Strategy and Its Application to Sea Ice Classification from SAR Imagery. Remote Sensing, 2019, 11, 1574.	4.0	25
20	A Multitexture Model for Multilook Polarimetric Synthetic Aperture Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2910-2919.	6.3	22
21	Characterization of Low-Backscatter Ocean Features in Dual-Copolarization SAR Using Log-Cumulants. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 836-840.	3.1	22
22	Late Summer Arctic Sea Ice Surface Roughness Signatures in C-Band SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1199-1215.	4.9	20
23	Robustness of SAR Sea Ice Type Classification Across Incidence Angles and Seasons at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9941-9952.	6.3	17
24	Incident Angle Dependence of Sentinel-1 Texture Features for Sea Ice Classification. Remote Sensing, 2021, 13, 552.	4.0	14
25	The Hotelling-Lawley trace statistic for change detection in polarimetric SAR data under the complex Wishart distribution. , 2013, , .		13
26	Late-summer sea ice segmentation with multi-polarisation SAR features in C and X band. Cryosphere, 2016, 10, 401-415.	3.9	13
27	Signature of Arctic first-year ice melt pond fraction in X-band SAR imagery. Cryosphere, 2017, 11, 755-771.	3.9	13
28	Consistent ice and open water classification combining historical synthetic aperture radar satellite images from ERS-1/2, Envisat ASAR, RADARSAT-2 and Sentinel-1A/B. Annals of Glaciology, 2020, 61, 40-50.	1.4	13
29	Integrating Incidence Angle Dependencies Into the Clustering-Based Segmentation of SAR Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2925-2939.	4.9	12
30	Estimation of the Equivalent Number of Looks in Polarimetric SAR Imagery. , 2008, , .		11
31	A multitexture model for multilook polarimetric radar data. , 2011, , .		9
32	Numerical Analysis of Microwave Scattering from Layered Sea Ice Based on the Finite Element Method. Remote Sensing, 2018, 10, 1332.	4.0	9
33	Characterization and extent of randomly-changing radio frequency interference in ALOS PALSAR data. , 2011, , .		8
34	A change detector for polarimetric SAR data based on the relaxed Wishart distribution. , 2015, , .		8
35	Model-Based Polarimetric Decomposition With Higher Order Statistics. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 992-996.	3.1	8
36	A K-Wishart Markov random field model for clustering of polarimetric SAR imagery. , 2011, , .		6

#	ARTICLE	IF	CITATIONS
37	Multisensor data fusion and feature extraction for forestry applications. , 2012, , .		5
38	Can we extend local sea-ice measurements to satellite scale? An example from the N-ICE2015 expedition. Annals of Glaciology, 2018, 59, 163-172.	1.4	5
39	Scale Mixture of Gaussians Modelling of Polarimetric SAR Data. , 2006, , .		4
40	PolSAR image segmentation — Advanced statistical modelling versus simple feature extraction. , 2014, , .		4
41	Unsupervised Mixture-Eliminating Estimation of Equivalent Number of Looks for PolSAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6767-6779.	6.3	4
42	On the potential of hand-held GPS tracking of fjord ice features for remote-sensing validation. Annals of Glaciology, 2018, 59, 173-180.	1.4	4
43	Incorporating Incidence Angle Variation into Sar Image Segmentation. , 2018, , .		4
44	Cross-platform classification of level and deformed sea ice considering per-class incident angle dependency of backscatter intensity. Cryosphere, 2022, 16, 237-257.	3.9	4
45	On the relation between polarimetric synthetic aperture radar (SAR) features and sea ice melt pond fraction. , 2015, , .		3
46	Sea ice segmentation using Tandem-X pursuit monostatic and alternative bistatic modes. , 2017, , .		3
47	Analysis of non-Gaussian POLSAR data. , 2007, , .		2
48	The Wishart-Kotz classifier for multilook polarimetric SAR data. , 2012, , .		2
49	Segmentation of polarimetric SAR data with a multi-texture product model. , 2012, , .		2
50	Subaperture analysis of polarimetric SAR data for iceberg detection. , 2016, , .		2
51	A fast automatic U-distribution segmentation algorithm for polsar images. , 2016, , .		2
52	A High-Efficiency Automatic U -Distribution Segmentation Algorithm for PolSAR Images. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 831-835.	3.1	2
53	Analysis and Classification of high Arctic Glaciers with ASAR Data. , 2008, , .		1
54	Model-based statistical analysis of PolSAR data. , 2009, , .		1

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55	The impact of terrain correction of polarimetric SAR data on glacier change detection. , 2012, , .		1
56	Sea clutter contamination test with log-cumulants. Proceedings of SPIE, 2012, , .	0.8	1
57	An advanced non-Gaussian feature space method for Pol-SAR image segmentation. , 2013, , .		1
58	An unsupervised method for equivalent number of looks estimation in complex SAR scenes. , 2015, , .		1
59	Aspects of model-based decompositions in radar polarimetry. , 2015, , .		1
60	Numerical simulation of microwave scattering from sea ice based on the Finite Element Method. , 2016, , .		1
61	Improved LLM methods using linear regression. , 2017, , .		1
62	Towards Automatic Detection of Dark Features in the Barents Sea using Synthetic Aperture Radar. , 2020, , .		1
63	Unsupervised change detection of multitemporal Landsat imagery to identify changes in land cover following the Chernobyl accident. , 2007, , .		0
64	Automatic clustering of multispectral data using a non-Gaussian statistical model. , 2014, , .		0
65	Post-classification Change Detection in Arctic Glaciers by Multi-polarization SAR. Remote Sensing and Digital Image Processing, 2016, , 125-144.	0.7	0
66	Speeding up Non-Gaussian POLSAR image analysis. , 2017, , .		0
67	Polarimetric SAR Modelling: Mellin Kind Statistics and Time-Frequency Analysis. Signals and Communication Technology, 2018, , 191-242.	0.5	0
68	Analysis of Radar Backscattering from First-Year Sea Ice With C-Shaped Profiles. , 2018, , .		0
69	Towards Operational Sea Ice Type Retrieval Using L-Band Synthetic Aperture Radar. , 2019, , .		0
70	A Noncentral and Non-Gaussian Probability Model for SAR Data. Lecture Notes in Computer Science, 2017, , 159-168.	1.3	0
71	A filtering framework for SAR data based on nongaussian statistics and pixel clustering. , 2017, , .		0