

Ronan Fablet

List of Publications by Year in descending order

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197
papers

3,037
citations

185998

28
h-index

264894

42
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213
all docs

213
docs citations

213
times ranked

3437
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>GeoTrackNet</i> : A Maritime Anomaly Detector Using Probabilistic Neural Network Representation of AIS Tracks and A Contrario Detection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 5655-5667.	4.7	40
2	Using generative adversarial networks (GAN) to simulate central-place foraging trajectories. <i>Methods in Ecology and Evolution</i> , 2022, 13, 1275-1287.	2.2	3
3	Deep inference of seabird dives from GPS-only records: Performance and generalization properties. <i>PLoS Computational Biology</i> , 2022, 18, e1009890.	1.5	3
4	Joint Calibration and Mapping of Satellite Altimetry Data Using Trainable Variational Models. , 2022, , .		5
5	Physical invariance in neural networks for subgrid-scale scalar flux modeling. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	25
6	Joint Interpolation and Representation Learning for Irregularly Sampled Satellite-Derived Geophysical Fields. <i>Frontiers in Applied Mathematics and Statistics</i> , 2021, 7, .	0.7	11
7	End-to-End Learning of Variational Models and Solvers for the Resolution of Interpolation Problems. , 2021, , .		1
8	Unsupervised Reconstruction of Sea Surface Currents from AIS Maritime Traffic Data Using Learnable Variational Models. , 2021, , .		3
9	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , 2021, 68, 319-363.	1.2	119
10	Deep learning techniques applied to super-resolution chemistry transport modeling for operational uses. <i>Environmental Research Communications</i> , 2021, 3, 085001.	0.9	4
11	Unsupervised Reconstruction of Sea Surface Currents from AIS Maritime Traffic Data Using Trainable Variational Models. <i>Remote Sensing</i> , 2021, 13, 3162.	1.8	3
12	Data-Driven Interpolation of Sea Surface Suspended Concentrations Derived from Ocean Colour Remote Sensing Data. <i>Remote Sensing</i> , 2021, 13, 3537.	1.8	3
13	End-to-End Kalman Filter for the Reconstruction of Sea Surface Dynamics from Satellite Data. , 2021, , .		1
14	Data-Driven Spatio-Temporal Interpolation of Sea Surface Sediment Concentration from Satellite-Derived Data: An OSSE Case-Study in the Bay of Biscay. , 2021, , .		1
15	End-to-End Learning of Variational Interpolation Schemes for Satellite-Derived SSH Data. , 2021, , .		1
16	Learning Variational Data Assimilation Models and Solvers. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002572.	1.3	23
17	Learning stochastic dynamical systems with neural networks mimicking the Euler-Maruyama scheme. , 2021, , .		2
18	Residual Networks as Flows of Diffeomorphisms. <i>Journal of Mathematical Imaging and Vision</i> , 2020, 62, 365-375.	0.8	21

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19	Intercomparison of Data-Driven and Learning-Based Interpolations of Along-Track Nadir and Wide-Swath SWOT Altimetry Observations. <i>Remote Sensing</i> , 2020, 12, 3806.	1.8	20
20	Assimilation-Based Learning of Chaotic Dynamical Systems from Noisy and Partial Data. , 2020, , .		9
21	Learning latent dynamics for partially observed chaotic systems. <i>Chaos</i> , 2020, 30, 103121.	1.0	30
22	Detection of Abnormal Vessel Behaviours from AIS data using GeoTrackNet: from the Laboratory to the Ocean. , 2020, , .		9
23	Neural Network Approaches to Reconstruct Phytoplankton Time-Series in the Global Ocean. <i>Remote Sensing</i> , 2020, 12, 4156.	1.8	6
24	Learning Endmember Dynamics in Multitemporal Hyperspectral Data Using A State-Space Model Formulation. , 2020, , .		5
25	Reconstructing Global Chlorophyll-a Variations Using a Non-linear Statistical Approach. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	20
26	SegSRGAN: Super-resolution and segmentation using generative adversarial networks “ Application to neonatal brain MRI. <i>Computers in Biology and Medicine</i> , 2020, 120, 103755.	3.9	46
27	PDE-NetGen 1.0: from symbolic partial differential equation (PDE) representations of physical processes to trainable neural network representations. <i>Geoscientific Model Development</i> , 2020, 13, 3373-3382.	1.3	12
28	Filtering Internal Tides from Wide-Swath Altimeter Data Using Convolutional Neural Networks. , 2020, , .		1
29	Faster-RCNN with a compact CNN backbone for target detection in infrared images. , 2020, , .		2
30	Data-driven and learning-based interpolations of along-track Nadir and wide-swath SWOT altimetry observations. , 2020, , .		0
31	Physically Informed Neural Networks for the Simulation and Data-Assimilation of Geophysical Dynamics. , 2020, , .		1
32	Recurrent Neural Networks with Stochastic Layers for Acoustic Novelty Detection. , 2019, , .		7
33	Learning Stochastic Representations of Geophysical Dynamics. , 2019, , .		1
34	Simultaneous Super-Resolution and Segmentation Using a Generative Adversarial Network: Application to Neonatal Brain MRI. , 2019, , .		5
35	A scalable Hadoop/Spark framework for general-purpose analysis of high volume passive acoustic data. , 2019, , .		0
36	Residual Integration Neural Network. , 2019, , .		5

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37	Multiscale brain MRI super-resolution using deep 3D convolutional networks. Computerized Medical Imaging and Graphics, 2019, 77, 101647.	3.5	96
38	Data-Driven Interpolation of Sea Level Anomalies Using Analog Data Assimilation. Remote Sensing, 2019, 11, 858.	1.8	18
39	CNN-Based Target Recognition and Identification for Infrared Imaging in Defense Systems. Sensors, 2019, 19, 2040.	2.1	33
40	Analog Data Assimilation of Along-Track Nadir and Wide-Swath SWOT Altimetry Observations in the Western Mediterranean Sea. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2530-2540.	2.3	8
41	Learning Ocean Dynamical Priors from Noisy Data Using Assimilation-Derived Neural Nets. , 2019, , .		2
42	Ship Identification and Characterization in Sentinel-1 SAR Images with Multi-Task Deep Learning. Remote Sensing, 2019, 11, 2997.	1.8	31
43	Sea Surface Dynamics Reconstruction Using Neural Networks Based Kalman Filter. , 2019, , .		0
44	Learning Differential Transport Operators for the Joint Super-Resolution of Sea Surface Tracers and Prediction of Subgrid-Scale Features. , 2019, , .		0
45	New insights into behavioural ecology of European seabass off the West Coast of France: implications at local and population scales. ICES Journal of Marine Science, 2019, 76, 501-515.	1.2	27
46	Rafting behaviour of seabirds as a proxy to describe surface ocean currents in the Balearic Sea. Scientific Reports, 2019, 9, 17775.	1.6	13
47	Detecting unseen targets during inference in infrared imaging. , 2019, , .		0
48	Improving Mesoscale Altimetric Data From a Multitracer Convolutional Processing of Standard Satellite-Derived Products. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2518-2525.	2.7	12
49	Completing fishing monitoring with spaceborne Vessel Detection System (VDS) and Automatic Identification System (AIS) to assess illegal fishing in Indonesia. Marine Pollution Bulletin, 2018, 131, 33-39.	2.3	39
50	Bilinear Residual Neural Network for the Identification and Forecasting of Geophysical Dynamics. , 2018, , .		28
51	A Multi-Task Deep Learning Architecture for Maritime Surveillance Using AIS Data Streams. , 2018, , .		58
52	Neural Network Based Kalman Filters for the Spatio-Temporal Interpolation of Satellite-Derived Sea Surface Temperature. Remote Sensing, 2018, 10, 1864.	1.8	22
53	Analog Data Assimilation for Along-Track Nadir and Swot Altimetry Data in the Western Mediterranean Sea. , 2018, , .		3
54	Sea Surface Temperature Prediction and Reconstruction Using Patch-Level Neural Network Representations. , 2018, , .		8

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55	EddyNet: A Deep Neural Network For Pixel-Wise Classification of Oceanic Eddies. , 2018, , .		79
56	Spatio-Temporal Interpolation of Cloudy SST Fields Using Conditional Analog Data Assimilation. Remote Sensing, 2018, 10, 310.	1.8	12
57	SWOT Spatial Scales in the Western Mediterranean Sea Derived from Pseudo-Observations and an Ad Hoc Filtering. Remote Sensing, 2018, 10, 599.	1.8	22
58	An Approximate Message Passing Approach for DOA Estimation in Phase Noisy Environments. Lecture Notes in Computer Science, 2018, , 385-394.	1.0	2
59	Fishing Gear Identification From Vessel-Monitoring-System-Based Fishing Vessel Trajectories. IEEE Journal of Oceanic Engineering, 2018, 43, 689-699.	2.1	42
60	Coherent heat patterns revealed by unsupervised classification of Argo temperature profiles in the North Atlantic Ocean. Progress in Oceanography, 2017, 151, 275-292.	1.5	39
61	The Analog Data Assimilation. Monthly Weather Review, 2017, 145, 4093-4107.	0.5	90
62	Brain MRI super-resolution using deep 3D convolutional networks. , 2017, , .		140
63	Data-driven assimilation of irregularly-sampled image time series. , 2017, , .		5
64	Locally-adapted convolution-based super-resolution of irregularly-sampled ocean remote sensing data. , 2017, , .		2
65	Data-Driven Models for the Spatio-Temporal Interpolation of Satellite-Derived SST Fields. IEEE Transactions on Computational Imaging, 2017, 3, 647-657.	2.6	28
66	Learning multi-tracer convolutional models for the reconstruction of high-resolution SSH fields. , 2017, , .		0
67	Spatio-temporal interpolation of altimeter-derived SSH fields using analog data assimilation: A case-study in the south china sea. , 2017, , .		1
68	Coupling spectral analysis and hidden Markov models for the segmentation of behavioural patterns. Movement Ecology, 2017, 5, 20.	1.3	14
69	Strike-alert: Towards real-time, high resolution navigational software for whale avoidance. , 2017, , .		0
70	Validation and Parameter Sensitivity Tests for Reconstructing Swell Field Based on an Ensemble Kalman Filter. Sensors, 2016, 16, 2000.	2.1	0
71	Joint Interpolation of Multisensor Sea Surface Temperature Fields Using Nonlocal and Statistical Priors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2665-2675.	2.3	7
72	Seabed classification using a steerable multibeam echo sounder. , 2016, , .		2

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73	An exemplar-based hidden Markov model framework for nonlinear state-space models. , 2016, , .		0
74	Convolutional Neural Networks for object recognition on mobile devices: A case study. , 2016, , .		28
75	Deep learning for ocean remote sensing: an application of convolutional neural networks for super-resolution on satellite-derived SST data. , 2016, , .		44
76	Non-negative decomposition of linear relationships: Application to multi-source ocean remote sensing data. , 2016, , .		0
77	Foreword to the Special Issue on the Remote Sensing of the World Oceans. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4895-4897.	2.3	0
78	Spatio-Temporal Decomposition of Satellite-Derived SST and SSH Fields: Links Between Surface Data and Ocean Interior Dynamics in the Agulhas Region. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5106-5112.	2.3	6
79	Assimilative 2-D Lagrangian Transport Model for the Estimation of Oil Leakage Parameters From SAR Images: Application to the Montara Oil Spill. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4962-4969.	2.3	23
80	Texture synthesis guided by a low-resolution image. , 2016, , .		1
81	Using archived datasets for missing data interpolation in ocean remote sensing observation series. , 2016, , .		3
82	MEETC2: Ocean color atmospheric corrections in coastal complex waters using a Bayesian latent class model and potential for the incoming sentinel 3 " OLCI mission. Remote Sensing of Environment, 2016, 172, 39-49.	4.6	16
83	A HMM-based model to geolocate pelagic fish from high-resolution individual temperature and depth histories: European sea bass as a case study. Ecological Modelling, 2016, 321, 10-22.	1.2	26
84	Spatial and seasonal patterns of fine-scale to mesoscale upper ocean dynamics in an Eastern Boundary Current System. Progress in Oceanography, 2016, 142, 105-116.	1.5	14
85	Non-homogeneous priors in a Bayesian latent class model for ocean color inversion. , 2015, , .		0
86	Missing data super-resolution using non-local and statistical priors. , 2015, , .		7
87	Non-parametric Ensemble Kalman methods for the inpainting of noisy dynamic textures. , 2015, , .		1
88	Learning-Based Emulation of Sea Surface Wind Fields From Numerical Model Outputs and SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4742-4750.	2.3	9
89	Defining fishing spatial strategies from VMS data: Insights from the world's largest monospecific fishery. Fisheries Research, 2015, 164, 223-230.	0.9	47
90	Characterization of Time-Varying Regimes in Remote Sensing Time Series: Application to the Forecasting of Satellite-Derived Suspended Matter Concentrations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 406-417.	2.3	6

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91	Fishing gear recognition from VMS data to identify illegal fishing activities in Indonesia. , 2015, , .		14
92	Combining Analog Method and Ensemble Data Assimilation: Application to the Lorenz-63 Chaotic System. , 2015, , 3-12.		21
93	Generalized Pareto for Pattern-Oriented Random Walk Modelling of Organismsâ€™ Movements. PLoS ONE, 2015, 10, e0132231.	1.1	2
94	Multiscale Event-Based Mining in Geophysical Time Series: Characterization and Distribution of Significant Time-Scales in the Sea Surface Temperature Anomalies Relatively to ENSO Periods from 1985 to 2009. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3543-3552.	2.3	9
95	Hidden surface dynamical modes and SSH retrievals from a joint analysis of altimetry and microwave SST. , 2014, , .		0
96	Ocean surface current retrieval using a non homogeneous Markov-switching multi-regime model. , 2014, , .		0
97	Spatio-temporal interpolation of sea surface temperature using high resolution remote sensing data. , 2014, , .		7
98	Multiscale Analysis of Geometric Planar Deformations: Application to Wild Animal Electronic Tracking and Satellite Ocean Observation Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3627-3636.	2.7	7
99	Statistical emulation of high-resolution SAR wind fields from low-resolution model predictions. , 2014, , .		0
100	Stochastic super-resolution of satellite-based Sea Surface Temperature using conditional SPDE models. , 2014, , .		0
101	Broad impacts of fine-scale dynamics on seascape structure from zooplankton to seabirds. Nature Communications, 2014, 5, 5239.	5.8	87
102	SST spatial anisotropic covariances from METOP-AVHRR data. Remote Sensing of Environment, 2014, 141, 144-148.	4.6	22
103	Segmentation of Mesoscale Ocean Surface Dynamics Using Satellite SST and SSH Observations. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4227-4235.	2.7	34
104	Ecosystem scenarios shape fishermen spatial behavior. The case of the Peruvian anchovy fishery in the Northern Humboldt Current System. Progress in Oceanography, 2014, 128, 60-73.	1.5	15
105	Preparation techniques alter the mineral and organic fractions of fish otoliths: insights using Raman micro-spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 4787-4798.	1.9	10
106	Geodesics-Based Image Registration: Applications To Biological And Medical Images Depicting Concentric Ring Patterns. IEEE Transactions on Image Processing, 2013, 22, 4436-4446.	6.0	6
107	How do the organic and mineral fractions drive the opacity of fish otoliths? Insights using Raman microspectrometry. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 711-719.	0.7	12
108	Routine acoustic data as new tools for a 3D vision of the abiotic and biotic components of marine ecosystem and their interactions. , 2013, , .		2

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109	Protein Interaction Hotspot Identification Using Sequence-Based Frequency-Derived Features. IEEE Transactions on Biomedical Engineering, 2013, 60, 2993-3002.	2.5	12
110	Spatio-temporal segmentation of mesoscale ocean surface dynamics using satellite data. , 2013, , .		0
111	Spatio-temporal segmentation and estimation of ocean surface currents from satellite sea surface temperature fields. , 2013, , .		4
112	Random walk models for geometry-driven image super-resolution. , 2013, , .		3
113	Detection of linear trends in multisensor time series in the presence of autocorrelated noise: Application to the chlorophyllâ€ SeaWiFS and MERIS data sets and extrapolation to the incoming Sentinel 3â€™OLCI mission. Journal of Geophysical Research: Oceans, 2013, 118, 3752-3763.	1.0	17
114	Hidden Markov Models: The Best Models for Forager Movements?. PLoS ONE, 2013, 8, e71246.	1.1	56
115	Multi-resolution data assimilation for missing data interpolation in geophysical sequences. , 2012, , .		0
116	Bags-of-Features for fish school cluster characterization in pelagic ecosystems: application to the discrimination of juvenile and adult anchovy (<i>Engraulis ringens</i>) clusters off Peru. Canadian Journal of Fisheries and Aquatic Sciences, 2012, 69, 1329-1339.	0.7	4
117	Plasticity of European flounder life history patterns discloses alternatives to catadromy. Marine Ecology - Progress Series, 2012, 465, 267-280.	0.9	29
118	Statistical Descriptors of Ocean Regimes From the Geometric Regularity of SST Observations. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 851-855.	1.4	4
119	Multiscale characterization of spatial relationships among oxycline depth, macrozooplankton, and forage fish off Peru using geostatistics, principal coordinates of neighbour matrices (PCNMs), and wavelets. Canadian Journal of Fisheries and Aquatic Sciences, 2012, 69, 740-754.	0.7	19
120	Diel vertical migration of European hake <i>Merluccius merluccius</i> and associated temperature histories: insights from a pilot dataâ€™storage tagging (DST) experiment. Journal of Fish Biology, 2012, 81, 728-734.	0.7	14
121	Preliminary observations of survival and growth of European hake in captivity. Aquaculture Research, 2012, 43, 949-954.	0.9	8
122	Spatial Statistics of Objects in 3-D Sonar Images: Application to Fisheries Acoustics. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 56-59.	1.4	6
123	Keypoint-Based Analysis of Sonar Images: Application to Seabed Recognition. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1171-1184.	2.7	9
124	Reconstructing individual food and growth histories from biogenic carbonates. Marine Ecology - Progress Series, 2012, 447, 151-164.	0.9	44
125	Interpolation par assimilation variationnelle de sÃ©quences multimodales dâ€™images satellitaires de lâ€™ocÃ©an. Traitement Du Signal, 2012, 29, 433-454.	0.8	0
126	Visual textures as realizations of multivariate log-Gaussian Cox processes. , 2011, , .		18

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127	Multi-resolution missing data interpolation in SST image series. , 2011, , .		2
128	Colonisation tactics of three temperate catadromous species, eel <i>Anguilla anguilla</i> , mullet <i>Liza ramada</i> and flounder <i>Platyichthys flesus</i> , revealed by Bayesian multielemental otolith microchemistry approach. Ecology of Freshwater Fish, 2011, 20, 42-51.	0.7	37
129	Object recognition using proportion-based prior information: Application to fisheries acoustics. Pattern Recognition Letters, 2011, 32, 153-158.	2.6	5
130	Log-gaussian cox processes of visual keypoints for sonar texture recognition. , 2011, , .		0
131	Multivariate log-Gaussian Cox models of elementary shapes for recognizing natural scene categories. , 2011, , .		1
132	Shedding Light on Fish Otolith Biomineralization Using a Bioenergetic Approach. PLoS ONE, 2011, 6, e27055.	1.1	66
133	Weakly Supervised Learning: Application to Fish School Recognition. Studies in Computational Intelligence, 2011, , 203-223.	0.7	1
134	Variational shape matching for shape classification and retrieval. Pattern Recognition Letters, 2010, 31, 1650-1657.	2.6	39
135	The impact of metabolism on stable isotope dynamics: a theoretical framework. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3455-3468.	1.8	58
136	Weakly supervised learning with decision trees applied to fisheries acoustics.. , 2010, , .		2
137	Invariant descriptors of sonar textures from spatial statistics of local features. , 2010, , .		4
138	Variational fronts tracking in sea surface temperature images. , 2010, , .		1
139	Variational data assimilation for missing data interpolation in SST images. , 2010, , .		5
140	Variational Region-Based Segmentation Using Multiple Texture Statistics. IEEE Transactions on Image Processing, 2010, 19, 3146-3156.	6.0	29
141	Descriptors for sea surface temperature front regularity characterization. , 2010, , .		2
142	Weakly Supervised Classification of Objects in Images Using Soft Random Forests. Lecture Notes in Computer Science, 2010, , 185-198.	1.0	6
143	Spatial Statistics of Visual Keypoints for Texture Recognition. Lecture Notes in Computer Science, 2010, , 764-777.	1.0	7
144	Weakly supervised classification with bagging in fisheries acoustics. , 2009, , .		0

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145	Importance and future of individual markers for the ecosystem approach to fisheries. Aquatic Living Resources, 2009, 22, 395-408.	0.5	25
146	Methodological developments for improved bottom detection with the ME70 multibeam echosounder. ICES Journal of Marine Science, 2009, 66, 1015-1022.	1.2	7
147	Classifying fish schools and estimating their species proportions in fishery-acoustic surveys. ICES Journal of Marine Science, 2009, 66, 1136-1142.	1.2	12
148	Seabed Segmentation Using Optimized Statistics of Sonar Textures. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1621-1631.	2.7	32
149	Reconstructing individual shape histories of fish otoliths: A new image-based tool for otolith growth analysis and modeling. Fisheries Research, 2009, 96, 148-159.	0.9	17
150	Shape geodesics for the classification of calcified structures: Beyond Fourier shape descriptors. Fisheries Research, 2009, 98, 8-15.	0.9	14
151	Variational 1D signal registration and shape geodesics for shape classification: Application to marine biological archives. , 2009, , .		2
152	Combining image-level and object-level inference for weakly supervised object recognition. Application to fisheries acoustics. , 2009, , .		3
153	Shape geodesics for boundary-based object recognition and retrieval. , 2009, , .		3
154	Target tracking in the time-frequency domain for a driving aid application. , 2009, , .		2
155	Overview of recent progress in fisheries acoustics made by Ifremer with examples from the Bay of Biscay. Aquatic Living Resources, 2009, 22, 433-445.	0.5	36
156	2D Image-based reconstruction of shape deformation of biological structures using a level-set representation. Computer Vision and Image Understanding, 2008, 111, 295-306.	3.0	10
157	Understanding otolith biomineralization processes: new insights into microscale spatial distribution of organic and mineral fractions from Raman microspectrometry. Analytical and Bioanalytical Chemistry, 2008, 392, 551-560.	1.9	40
158	Fusion of textural statistics using a similarity measure: application to texture recognition and segmentation. Pattern Analysis and Applications, 2008, 11, 425-434.	3.1	21
159	Weakly supervised learning using proportion-based information: An application to fisheries acoustics. , 2008, , .		5
160	Non-rigid registration of shape sequence images: Applications to biological and medical images. , 2008, , .		0
161	Automatic fish school classification for acoustic sensing of marine ecosystem. , 2008, , .		0
162	Fast marching and acoustic descriptors based method for fish proportion interpolation. , 2008, , .		0

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163	Computer vision and otolith: toward a modelisation of the morphogenesis of accretionary processes. ESAIM: Proceedings and Surveys, 2008, 22, 150-154.	0.4	0
164	Unsupervised Bayesian reconstruction of individual life histories from otolith signatures: case study of Sr:Ca transects of European eel (<i>Anguilla anguilla</i>) otoliths. Canadian Journal of Fisheries and Aquatic Sciences, 2007, 64, 152-165.	0.7	40
165	Unsupervised region-based image segmentation using texture statistics and level-set methods. , 2007, , .		14
166	Semi-local extraction of ring structures in images of biological hard tissues: application to the Bayesian interpretation of fish otoliths for age and growth estimation. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 1414-1428.	0.7	11
167	Variational Level-Set Reconstruction of Accretionary Morphogenesis from Images. , 2006, , .		0
168	Region-based and incidence angle dependent segmentation of seabed sonar images using a level set approach combined to local texture statistics. , 2006, , .		1
169	Statistical learning applied to computer-assisted fish age and growth estimation from otolith images. Fisheries Research, 2006, 81, 219-228.	0.9	9
170	Automatic morphological detection of otolith nucleus. Pattern Recognition Letters, 2006, 27, 658-666.	2.6	7
171	Orientation Interpolation and Applications. , 2006, , .		3
172	Interpolating Orientation Fields: An Axiomatic Approach. Lecture Notes in Computer Science, 2006, , 241-254.	1.0	4
173	Statistical discrimination of seabed textures in sonar images using co-occurrence statistics. , 2005, , .		2
174	Extraction and interpretation of ring structures in images of biological hard tissues: application to fish age and growth estimation. , 2005, , .		1
175	Speckle denoising using a variational multi-wavelet approach. , 2005, , .		2
176	Variational multi-wavelet restoration of noisy images. , 2005, , .		0
177	Automated fish age estimation from otolith images using statistical learning. Fisheries Research, 2005, 72, 279-290.	0.9	43
178	Automatic morphological detection of otolith nucleus. , 2004, , .		0
179	Automatic fish age estimation from otolith images using statistical learning. , 2004, , .		2
180	Motion recognition using nonparametric image motion models estimated from temporal and multiscale co-occurrence statistics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 1619-1624.	9.7	74

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181	Nonparametric motion characterization using causal probabilistic models for video indexing and retrieval. IEEE Transactions on Image Processing, 2002, 11, 393-407.	6.0	74
182	Automatic Detection and Tracking of Human Motion with a View-Based Representation. Lecture Notes in Computer Science, 2002, , 476-491.	1.0	62
183	Non-Parametric Motion Activity Analysis for Statistical Retrieval with Partial Query. Journal of Mathematical Imaging and Vision, 2001, 14, 257-270.	0.8	3
184	New Descriptors for Image and Video Indexing. Computational Imaging and Vision, 2001, , 213-234.	0.6	1
185	Statistical Motion-Based Retrieval with Partial Query. Lecture Notes in Computer Science, 2000, , 96-107.	1.0	3
186	<title>Motion estimation on infrared image sequences</title>. , 1999, , .		0
187	<title>Motion segmentation and cloud tracking on noisy infrared image sequences</title>. , 1998, , .		0
188	Motion characterization from temporal cooccurrences of local motion-based measures for video indexing. , 0, , .		37
189	Statistical motion-based object indexing using optic flow field. , 0, , .		7
190	MRF-based moving object detection from MPEG coded video. , 0, , .		13
191	Motion recognition using spatio-temporal random walks in sequence of 2D motion-related measurements. , 0, , .		9
192	Non parametric motion recognition using temporal multiscale Gibbs models. , 0, , .		11
193	Robust time-frequency model estimation in otolith images for fish age and growth analysis. , 0, , .		3
194	Robust statistical registration of 3D ultrasound images using texture information. , 0, , .		10
195	Region-Based Image Segmentation Using Texture Statistics And Level-Set Methods. , 0, , .		21
196	Unsupervised Calibrated Sonar Imaging for Seabed Observation Using Hidden Markov Random Fields. , 0, , .		0
197	END-TO-END PHYSICS-INFORMED REPRESENTATION LEARNING FOR SATELLITE OCEAN REMOTE SENSING DATA: APPLICATIONS TO SATELLITE ALTIMETRY AND SEA SURFACE CURRENTS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-3-2021, 295-302.	0.0	10