Loretta Ichim

List of Publications by Year in descending order

120 papers	921 citations	840119 11 h-index	642321 23 g-index
121 all docs	121 docs citations	121 times ranked	733 citing authors

#	ARTICLE	IF	CITATIONS
1	New Trends in Melanoma Detection Using Neural Networks: A Systematic Review. Sensors, 2022, 22, 496.	2.1	51
2	Skin Lesion Classification Using Collective Intelligence of Multiple Neural Networks. Sensors, 2022, 22, 4399.	2.1	24
3	Semantic Segmentation of Small Region of Interest for Agricultural Research Applications. Lecture Notes in Computer Science, 2021, , 585-598.	1.0	0
4	Segmentation of Brain Tumors from MRI Images Using Deep Neural Networks. , 2021, , .		0
5	Condition Monitoring of Manufacturing Production Lines Using Fractal Analysis of Energy Consumption Datasets. , 2021, , .		2
6	Texture Analysis for Images with Forested Areas. , 2021, , .		0
7	Retinal Blood Vessel Segmentation Using Pix2Pix GAN. , 2021, , .		16
8	Identifying Persons from Iris Image. , 2021, , .		2
9	Improved Conditional GAN for Aerial Image Segmentation. , 2021, , .		1
10	Exudate Detection in Diabetic Retinopathy Using Deep Learning Techniques. , 2021, , .		1
11	Automatic Detection of Blood Vessels in Retinal Images Using FC-DenseNet Neural Networks. , 2021, , .		0
12	Neural Network Based System for Disease Prediction. , 2021, , .		1
13	Fog Computing Monitoring System for a Flexible Assembly Line. Studies in Computational Intelligence, 2020, , 197-209.	0.7	3
14	Visual Servoing System for Local Robot Control in a Flexible Assembly Line. , 2020, , .		1
15	Target Audience Response Analysis in Out-of-home Advertising Using Computer Vision. , 2020, , .		1
16	Melanoma Detection Using an Objective System Based on Multiple Connected Neural Networks. IEEE Access, 2020, 8, 179189-179202.	2.6	24
17	Hybrid Sensor Network for Monitoring Environmental Parameters. , 2020, , .		5
18	Real-time Assembly Fault Detection Using Image Analysis for Industrial Assembly Line. , 2020, , .		2

#	Article	IF	Citations
19	Segmentation of Vegetation and Flood from Aerial Images Based on Decision Fusion of Neural Networks. Remote Sensing, 2020, 12, 2490.	1.8	6
20	4G/LTE Issues of Low Altitude UAV Flying Systems. , 2020, , .		1
21	Deep Learningâ€"Based Methods for Automatic Diagnosis of Skin Lesions. Sensors, 2020, 20, 1753.	2.1	73
22	Advanced UAVâ€"WSN System for Intelligent Monitoring in Precision Agriculture. Sensors, 2020, 20, 817.	2.1	142
23	Fusioning Multiple Treatment Retina Images into a Single One. Communications in Computer and Information Science, 2020, , 96-103.	0.4	0
24	Classification of Small Region of Interest from Remote Images Using Neural Networks. , 2020, , .		0
25	Melanoma Detection Using Decision Fusion of Various Classifiers. , 2020, , .		1
26	Image Based Fault Detection Algorithm for Flexible Industrial Assembly Line. , 2019, , .		2
27	IoT-Enabled Distributed Data Processing for Precision Agriculture. , 2019, , .		8
28	Automatic Diagnosis of Skin Cancer Using Neural Networks. , 2019, , .		15
29	A Survey of Collaborative UAVâ€"WSN Systems for Efficient Monitoring. Sensors, 2019, 19, 4690.	2.1	82
30	Aerial Robotic Team for Complex Monitoring in Precision Agriculture. , 2019, , .		5
31	Upper Limb Orthosis - Image Analysis for Elbow Range of Motion. , 2019, , .		1
32	Some comments on the constrained trajectory generation for UAV systems. , 2019, , .		0
33	Detection of Cancerous Lesions with Neural Networks. Lecture Notes in Computer Science, 2019, , 377-389.	1.0	0
34	Spectrum options and wireless communication solutions for drones. , 2019, , .		0
35	Color Texture Classification Combining LBP Images and Fractal Features. , 2019, , .		1
36	Hierarchical Processing of Signals for Smart Crop Monitoring*. , 2019, , .		0

#	Article	IF	Citations
37	Sensor Virtualization for Enabling Novel Services. , 2019, , .		0
38	UAV to Satellite Communication Systems. , 2019, , .		1
39	Sensor and Communication Considerations in UAV-WSN Based System for Precision Agriculture. , 2019, , .		4
40	Flooded Areas Evaluation from Aerial Images Based on Convolutional Neural Network. , 2019, , .		2
41	Virtual Sensor for Behavior Pattern Identification in a Smart Home Application. , 2019, , .		3
42	Multi-Uav Architecture For Ground Data Collection. , 2019, , .		3
43	Adaptive Set-Point Using Flow Estimation for Oxygen Control in Wastewater Plant. , 2019, , .		0
44	Collaborative UAV-WSN System for Data Acquisition and Processing in Agriculture. , 2019, , .		9
45	Trajectory Design for Effective and Secure Communication in UAV-WSN Systems. , 2019, , .		1
46	Smart Grid Protection using MAC Value Analysis. , 2019, , .		0
47	Building Recognition in Static Images. , 2019, , .		1
48	Large Scale Wireless Sensor Networks Based on Fixed Nodes and Mobile Robots in Precision Agriculture. Mechanisms and Machine Science, 2019, , 236-244.	0.3	2
49	Deep CNN Based System for Detection and Evaluation of RoIs in Flooded Areas. Lecture Notes in Computer Science, 2019, , 236-248.	1.0	1
50	Person Detection in Video Surveillance. , 2018, , .		1
51	Mixed-Integer Representations for Mission Constraints in a Multi-Agent Team. , 2018, , .		0
52	UAV-to-UAV Communication Options for Civilian Applications. , 2018, , .		15
53	Efficient Solution for Smart Home Applications. , 2018, , .		1
54	Ground Control Station for an Unmanned Aerial Vehicle Integrated in IoT. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Image Processing Techniques to Identify Red Blood Cells. , 2018, , .		9
56	Emotion Classification Using a Tensorflow Generative Adversarial Network Implementation. Symmetry, 2018, 10, 414.	1.1	16
57	CNN based on LBP for Evaluating Natural Disasters. , 2018, , .		4
58	Improvement of Optic Disc Localization using Gabor Filters. , 2018, , .		1
59	Flooded Area Segmentation from UAV Images Based on Generative Adversarial Networks. , 2018, , .		4
60	Advanced Processing Techniques for Detection and Classification of Skin Lesions. , 2018, , .		12
61	A Collaborative UAV-WSN Network for Monitoring Large Areas. Sensors, 2018, 18, 4202.	2.1	64
62	Residual Water Burst Detection Using WSN Measurements and Cloud Analysis. , 2018, , .		0
63	Connectivity Solutions for Hybrid Air-Ground Sensor Networks. , 2018, , .		1
64	Cyber Security of Smart Grid Infrastructure. , 2018, , .		2
65	UHF Propagation Model Calibration Using Correlations between Field Measurements and Prediction. , 2018, , .		2
66	Wireless Sensor Network Architecture based on Fog Computing. , 2018, , .		22
67	Correlation between Distance and Frequency Bands in Hybrid Air-Ground Sensor Networks. , 2018, , .		1
68	Intelligent Image Processing System for Detection and Segmentation of Regions of Interest in Retinal Images. Symmetry, 2018, 10, 73.	1.1	5
69	Road Detection and Segmentation from Aerial Images Using a CNN Based System. , 2018, , .		11
70	Integration of WSN, IoT and Cloud Computing in Distributed Monitoring System for Aging Persons in Active Life. , 2018, , .		6
71	Complex Conditional Generative Adversarial Nets for Multiple Objectives Detection in Aerial Images. Lecture Notes in Computer Science, 2018, , 671-683.	1.0	4
72	A Geometrical Interpretation of Communication Restrictions in a Multi-Agent Environment. , 2018, , .		0

#	Article	IF	Citations
73	A neural-network based approach for exudates evaluation in retinal images. , 2017, , .		1
74	Retinal image segmentation based on weighted local detectors and confusion matrix. , 2017, , .		2
75	Improving operational security for web-based distributed control systems in wastewater management. , 2017, , .		5
76	Texture Classification Algorithm Using Elements of Fractal Analysis. , 2017, , .		1
77	Monitoring and Evaluation of Flooded Areas Based on Fused Texture Descriptors. Lecture Notes in Computer Science, 2017, , 349-360.	1.0	0
78	Interlinking unmanned aerial vehicles with wireless sensor networks for improved large area monitoring. , 2017, , .		7
79	Blood vessel segmentation in eye fundus images. , 2017, , .		3
80	Image processing in hybrid wireless sensor network for small flooded areas evaluation. , 2017, , .		0
81	Multi-ground-control system for unmanned aerial vehicles. , 2017, , .		2
82	A practical approach to IEC 61850 standard for automation, protection and control of substations. , 2017, , .		12
83	Flooded and vegetation areas detection from UAV images using multiple descriptors. , 2017, , .		1
84	A multi-agent system for management of control functions as services in onshore oilfield. , 2017, , .		0
85	Accurate localization of the optic disc based on LBP descriptors. , 2017, , .		2
86	Combining efficient textural features with CNN â€" Based classifiers to segment regions of interest in aerial images. , 2017, , .		1
87	Unmanned Aerial Vehicle Systems for Remote Estimation of Flooded Areas Based on Complex Image Processing. Sensors, 2017, 17, 446.	2.1	43
88	Interconnected Neural Networks Based on Voting Scheme and Local Detectors for Retinal Image Analysis and Diagnosis. Lecture Notes in Computer Science, 2017, , 753-764.	1.0	2
89	Constrained trajectory generation for UAV systems using a B-spline parametrization. , 2017, , .		17
90	Message Queuing Model for a Healthcare Hybrid Cloud Computing Platform. Studies in Informatics and Control, 2017, 26, .	0.6	4

#	Article	IF	Citations
91	Combining Color Fractal with LBP Information for Flood Segmentation in UAV-Based Images. Lecture Notes in Computer Science, 2017, , 741-752.	1.0	0
92	Remote assessment of flooded areas based on inter-spectral statistical features. , 2016, , .		2
93	Detection of regions of interest in retinal images using artificial neural networks and K-means clustering. , 2016, , .		5
94	Flood evaluation in critical areas by UAV surveillance. , 2016, , .		8
95	A service oriented system of reusable algorithms for distributed control of petroleum facilities in onshore oilfields. , 2016, , .		6
96	Detection of exudates and hemorrhages using an efficient criterion for feature selection. , 2016, , .		3
97	Aerial image segmentation by use of textural features. , 2016, , .		7
98	Remote image classification based on patch dissimilarity. , 2016, , .		1
99	Intelligent feature selection for regions of interest identification in retinal images. , 2016, , .		0
100	Complex Image Processing Using Correlated Color Information. Lecture Notes in Computer Science, 2016, , 723-734.	1.0	6
101	Combining LBP and co-occurrence matrix information to accurate recognition of the optic disc in retinal image. , 2016, , .		2
102	Image Based Control of a Simple Mobile Robotic System. Studies in Systems, Decision and Control, 2016, , 117-137.	0.8	0
103	Fault-Tolerant Control System Implementation Based on Parameter Analysis. Studies in Informatics and Control, 2016, 25, .	0.6	1
104	Combining blood vessel segmentation and texture analysis to improve optic disc detection. , 2015, , .		7
105	Flood areas detection based on UAV surveillance system. , 2015, , .		24
106	Advanced driver assistance system for overtaking maneuver on a highway. , 2015, , .		1
107	M2M service platforms and device management. , 2015, , .		3
108	Image Recognition in UAV Application Based on Texture Analysis. Lecture Notes in Computer Science, 2015, , 693-704.	1.0	13

#	Article	IF	Citations
109	Improving Texture Based Classification of Aerial Images by Fractal Features. , 2015, , .		3
110	Computer &#x2014; Aided localization of the optic disc based on textural features. , 2015, , .		12
111	Texture Based Method for Automated Detection, Localization and Evaluation of the Exudates in Retinal Images. Lecture Notes in Computer Science, 2015, , 463-472.	1.0	13
112	Sliding Box Method for Automated Detection of the Optic Disc and Macula in Retinal Images. Lecture Notes in Computer Science, 2015, , 250-261.	1.0	5
113	Benign and malignant breast tumors: Diagnosis using fractal measures. , 2014, , .		5
114	Reconfigurable robotic system based on mono-camera guidance. , 2014, , .		1
115	Characterization of Tumor Angiogenesis Using Fractal Measures. , 2013, , .		5
116	Using texture and fractal analysis for classification of cell nuclei from light scattering spectroscopic images. , 2010, , .		0
117	Two Dimensional Modeling and Fractal Characterization of Tumor Vascular Network. , 2009, , .		2
118	Using fractal dimension as discriminator of infected HeLa cells from spectrophotometric images. International Journal of Functional Informatics and Personalised Medicine, 2008, 1, 53.	0.4	2
119	Automatic Data Acquisition and Signal Processing in the Field of Virology. Lecture Notes in Computer Science, 2008, , 52-61.	1.0	0
120	Fractal Dimension of Mie Scattering Spectra for the Appraisal of Infected HeLa Cells in Cultures. , 2007, , .		2