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	Advanced UAV–WSN System for Intelligent Monitoring in Precision Agriculture. Sensors, 2020, 20, 817.	2.1	142
2	A Survey of Collaborative UAV–WSN Systems for Efficient Monitoring. Sensors, 2019, 19, 4690.	2.1	82
3	Deep Learning–Based Methods for Automatic Diagnosis of Skin Lesions. Sensors, 2020, 20, 1753.	2.1	73
4	A Collaborative UAV-WSN Network for Monitoring Large Areas. Sensors, 2018, 18, 4202.	2.1	64
5	New Trends in Melanoma Detection Using Neural Networks: A Systematic Review. Sensors, 2022, 22, 496.	2.1	51
6	Unmanned Aerial Vehicle Systems for Remote Estimation of Flooded Areas Based on Complex Image Processing. Sensors, 2017, 17, 446.	2.1	43
7	Flood areas detection based on UAV surveillance system. , 2015, , .		24
8	Melanoma Detection Using an Objective System Based on Multiple Connected Neural Networks. IEEE Access, 2020, 8, 179189-179202.	2.6	24
9	Skin Lesion Classification Using Collective Intelligence of Multiple Neural Networks. Sensors, 2022, 22, 4399.	2.1	24
10	Wireless Sensor Network Architecture based on Fog Computing. , 2018, , .		22
11	Constrained trajectory generation for UAV systems using a B-spline parametrization. , 2017, , .		17
12	Emotion Classification Using a Tensorflow Generative Adversarial Network Implementation. Symmetry, 2018, 10, 414.	1.1	16
13	Retinal Blood Vessel Segmentation Using Pix2Pix GAN. , 2021, , .		16
14	UAV-to-UAV Communication Options for Civilian Applications. , 2018, , .		15
15	Automatic Diagnosis of Skin Cancer Using Neural Networks. , 2019, , .		15
16	Image Recognition in UAV Application Based on Texture Analysis. Lecture Notes in Computer Science, 2015, , 693-704.	1.0	13
17	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
18	Computer &#x2014; Aided localization of the optic disc based on textural features. , 2015, , .		12

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19	A practical approach to IEC 61850 standard for automation, protection and control of substations. , 2017, , .		12
20	Advanced Processing Techniques for Detection and Classification of Skin Lesions. , 2018, , .		12
21	Road Detection and Segmentation from Aerial Images Using a CNN Based System. , 2018, , .		11
22	Image Processing Techniques to Identify Red Blood Cells. , 2018, , .		9
23	Collaborative UAV-WSN System for Data Acquisition and Processing in Agriculture. , 2019, , .		9
24	Flood evaluation in critical areas by UAV surveillance. , 2016, , .		8
25	IoT-Enabled Distributed Data Processing for Precision Agriculture. , 2019, , .		8
26	Combining blood vessel segmentation and texture analysis to improve optic disc detection. , 2015, , .		7
27	Aerial image segmentation by use of textural features. , 2016, , .		7
28	Interlinking unmanned aerial vehicles with wireless sensor networks for improved large area monitoring. , 2017, , .		7
29	A service oriented system of reusable algorithms for distributed control of petroleum facilities in onshore oilfields. , 2016, , .		6
30	Complex Image Processing Using Correlated Color Information. Lecture Notes in Computer Science, 2016, , 723-734.	1.0	6
31	Integration of WSN, IoT and Cloud Computing in Distributed Monitoring System for Aging Persons in Active Life. , 2018, , .		6
32	Segmentation of Vegetation and Flood from Aerial Images Based on Decision Fusion of Neural Networks. Remote Sensing, 2020, 12, 2490.	1.8	6
33	Characterization of Tumor Angiogenesis Using Fractal Measures. , 2013, , .		5
34	Benign and malignant breast tumors: Diagnosis using fractal measures. , 2014, , .		5
35	Detection of regions of interest in retinal images using artificial neural networks and K-means clustering. , 2016, , .		5
36	Improving operational security for web-based distributed control systems in wastewater management. , 2017, , .		5

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37	Intelligent Image Processing System for Detection and Segmentation of Regions of Interest in Retinal Images. Symmetry, 2018, 10, 73.	1.1	5
38	Aerial Robotic Team for Complex Monitoring in Precision Agriculture. , 2019, , .		5
39	Hybrid Sensor Network for Monitoring Environmental Parameters. , 2020, , .		5
40	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
41	CNN based on LBP for Evaluating Natural Disasters. , 2018, , .		4
42	Flooded Area Segmentation from UAV Images Based on Generative Adversarial Networks. , 2018, , .		4
43	Sensor and Communication Considerations in UAV-WSN Based System for Precision Agriculture. , 2019, , .		4
44	Complex Conditional Generative Adversarial Nets for Multiple Objectives Detection in Aerial Images. Lecture Notes in Computer Science, 2018, , 671-683.	1.0	4
45	Message Queuing Model for a Healthcare Hybrid Cloud Computing Platform. Studies in Informatics and Control, 2017, 26, .	0.6	4
46	M2M service platforms and device management. , 2015, , .		3
47	Improving Texture Based Classification of Aerial Images by Fractal Features. , 2015, , .		3
48	Detection of exudates and hemorrhages using an efficient criterion for feature selection. , 2016, , .		3
49	Blood vessel segmentation in eye fundus images. , 2017, , .		3
50	Virtual Sensor for Behavior Pattern Identification in a Smart Home Application. , 2019, , .		3
51	Multi-Uav Architecture For Ground Data Collection. , 2019, , .		3
52	Fog Computing Monitoring System for a Flexible Assembly Line. Studies in Computational Intelligence, 2020, , 197-209.	0.7	3
53	Fractal Dimension of Mie Scattering Spectra for the Appraisal of Infected HeLa Cells in Cultures. , 2007, , .		2
54	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

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55	Two Dimensional Modeling and Fractal Characterization of Tumor Vascular Network. , 2009, , .		2
56	Remote assessment of flooded areas based on inter-spectral statistical features. , 2016, , .		2
57	Combining LBP and co-occurrence matrix information to accurate recognition of the optic disc in retinal image. , 2016, , .		2
58	Retinal image segmentation based on weighted local detectors and confusion matrix. , 2017, , .		2
59	Multi-ground-control system for unmanned aerial vehicles. , 2017, , .		2
60	Accurate localization of the optic disc based on LBP descriptors. , 2017, , .		2
61	Cyber Security of Smart Grid Infrastructure. , 2018, , .		2
62	UHF Propagation Model Calibration Using Correlations between Field Measurements and Prediction. , 2018, , .		2
63	Image Based Fault Detection Algorithm for Flexible Industrial Assembly Line. , 2019, , .		2
64	Flooded Areas Evaluation from Aerial Images Based on Convolutional Neural Network. , 2019, , .		2
65	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
66	Real-time Assembly Fault Detection Using Image Analysis for Industrial Assembly Line. , 2020, , .		2
67	Condition Monitoring of Manufacturing Production Lines Using Fractal Analysis of Energy Consumption Datasets. , 2021, , .		2
68	Identifying Persons from Iris Image. , 2021, , .		2
69	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
70	Reconfigurable robotic system based on mono-camera guidance. , 2014, , .		1
71	Advanced driver assistance system for overtaking maneuver on a highway. , 2015, , .		1
72	Remote image classification based on patch dissimilarity. , 2016, , .		1

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73	A neural-network based approach for exudates evaluation in retinal images. , 2017, , .		1
74	Texture Classification Algorithm Using Elements of Fractal Analysis. , 2017, , .		1
75	Flooded and vegetation areas detection from UAV images using multiple descriptors. , 2017, , .		1
76	Combining efficient textural features with CNN â€" Based classifiers to segment regions of interest in aerial images. , 2017, , .		1
77	Person Detection in Video Surveillance. , 2018, , .		1
78	Efficient Solution for Smart Home Applications. , 2018, , .		1
79	Improvement of Optic Disc Localization using Gabor Filters. , 2018, , .		1
80	Connectivity Solutions for Hybrid Air-Ground Sensor Networks. , 2018, , .		1
81	Correlation between Distance and Frequency Bands in Hybrid Air-Ground Sensor Networks. , 2018, , .		1
82	Upper Limb Orthosis - Image Analysis for Elbow Range of Motion. , 2019, , .		1
83	Color Texture Classification Combining LBP Images and Fractal Features. , 2019, , .		1
84	UAV to Satellite Communication Systems. , 2019, , .		1
85	Trajectory Design for Effective and Secure Communication in UAV-WSN Systems. , 2019, , .		1
86	Building Recognition in Static Images. , 2019, , .		1
87	Visual Servoing System for Local Robot Control in a Flexible Assembly Line. , 2020, , .		1
88	Target Audience Response Analysis in Out-of-home Advertising Using Computer Vision. , 2020, , .		1
89	4G/LTE Issues of Low Altitude UAV Flying Systems. , 2020, , .		1
90	Deep CNN Based System for Detection and Evaluation of RoIs in Flooded Areas. Lecture Notes in Computer Science, 2019, , 236-248.	1.0	1

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91	Improved Conditional GAN for Aerial Image Segmentation. , 2021, , .		1
92	Fault-Tolerant Control System Implementation Based on Parameter Analysis. Studies in Informatics and Control, 2016, 25, .	0.6	1
93	Exudate Detection in Diabetic Retinopathy Using Deep Learning Techniques. , 2021, , .		1
94	Melanoma Detection Using Decision Fusion of Various Classifiers. , 2020, , .		1
95	Neural Network Based System for Disease Prediction. , 2021, , .		1
96	Using texture and fractal analysis for classification of cell nuclei from light scattering spectroscopic images. , 2010, , .		0
97	Intelligent feature selection for regions of interest identification in retinal images. , 2016, , .		0
98	Monitoring and Evaluation of Flooded Areas Based on Fused Texture Descriptors. Lecture Notes in Computer Science, 2017, , 349-360.	1.0	0
99	Image processing in hybrid wireless sensor network for small flooded areas evaluation. , 2017, , .		0
100	A multi-agent system for management of control functions as services in onshore oilfield. , 2017, , .		0
101	Mixed-Integer Representations for Mission Constraints in a Multi-Agent Team. , 2018, , .		0
102	Ground Control Station for an Unmanned Aerial Vehicle Integrated in IoT. , 2018, , .		0
103	Residual Water Burst Detection Using WSN Measurements and Cloud Analysis. , 2018, , .		0
104	Some comments on the constrained trajectory generation for UAV systems. , 2019, , .		0
105	Detection of Cancerous Lesions with Neural Networks. Lecture Notes in Computer Science, 2019, , 377-389.	1.0	0
106	Spectrum options and wireless communication solutions for drones. , 2019, , .		0
107	Hierarchical Processing of Signals for Smart Crop Monitoring*. , 2019, , .		0
108	Sensor Virtualization for Enabling Novel Services. , 2019, , .		0

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109	Adaptive Set-Point Using Flow Estimation for Oxygen Control in Wastewater Plant. , 2019, , .		0
110	Smart Grid Protection using MAC Value Analysis. , 2019, , .		0
111	Semantic Segmentation of Small Region of Interest for Agricultural Research Applications. Lecture Notes in Computer Science, 2021, , 585-598.	1.0	0
112	Segmentation of Brain Tumors from MRI Images Using Deep Neural Networks. , 2021, , .		0
113	Texture Analysis for Images with Forested Areas. , 2021, , .		0
114	Image Based Control of a Simple Mobile Robotic System. Studies in Systems, Decision and Control, 2016, , 117-137.	0.8	0
115	Combining Color Fractal with LBP Information for Flood Segmentation in UAV-Based Images. Lecture Notes in Computer Science, 2017, , 741-752.	1.0	0
116	A Geometrical Interpretation of Communication Restrictions in a Multi-Agent Environment. , 2018, , .		0
117	Fusioning Multiple Treatment Retina Images into a Single One. Communications in Computer and Information Science, 2020, , 96-103.	0.4	0
118	Automatic Data Acquisition and Signal Processing in the Field of Virology. Lecture Notes in Computer Science, 2008, , 52-61.	1.0	0
119	Automatic Detection of Blood Vessels in Retinal Images Using FC-DenseNet Neural Networks. , 2021, , .		0
120	Classification of Small Region of Interest from Remote Images Using Neural Networks. , 2020, , .		0