

Kannappan Palaniappan

List of Publications by Year in descending order

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64
papers

1,076
citations

1040056

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h-index

996975

15
g-index

66
all docs

66
docs citations

66
times ranked

918
citing authors

#	ARTICLE	IF	CITATIONS
1	Static and Moving Object Detection Using Flux Tensor with Split Gaussian Models. , 2014, , .		167
2	CNN-based image analysis for malaria diagnosis. , 2016, , .		151
3	Efficient feature extraction and likelihood fusion for vehicle tracking in low frame rate airborne video. , 2010, , .		88
4	Facial expression recognition for monitoring neurological disorders based on convolutional neural network. Multimedia Tools and Applications, 2019, 78, 31581-31603.	3.9	56
5	Directional reversals enable <i>Myxococcus xanthus</i> cells to produce collective one-dimensional streams during fruiting-body formation. Journal of the Royal Society Interface, 2015, 12, 20150049.	3.4	50
6	Clustering-Based Dual Deep Learning Architecture for Detecting Red Blood Cells in Malaria Diagnostic Smears. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1735-1746.	6.3	38
7	GPU implementation of belief propagation using CUDA for cloud tracking and reconstruction. , 2008, , .		33
8	Malaria parasite detection and cell counting for human and mouse using thin blood smear microscopy. Journal of Medical Imaging, 2018, 5, 1.	1.5	30
9	Malaria Screener: a smartphone application for automated malaria screening. BMC Infectious Diseases, 2020, 20, 825.	2.9	28
10	Moving object detection for vehicle tracking in Wide Area Motion Imagery using 4D filtering. , 2016, , .		27
11	Robust Camera Pose Refinement and Rapid SfM for Multiview Aerial Imagery Without RANSAC. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2203-2207.	3.1	24
12	UAV-Video Registration Using Block-Based Features. , 2008, , .		23
13	Fast Structure from Motion for Sequential and Wide Area Motion Imagery. , 2015, , .		21
14	Predicting carbon nanotube forest attributes and mechanical properties using simulated images and deep learning. Npj Computational Materials, 2021, 7, .	8.7	19
15	Clustering initiated multiphase active contours and robust separation of nuclei groups for tissue segmentation. , 2008, , .		17
16	HEp-2 cell classification and segmentation using motif texture patterns and spatial features with random forests. , 2016, , .		17
17	Robust Orientation and Appearance Adaptation for Wide-Area Large Format Video Object Tracking. , 2012, , .		16
18	Automatic Video Content Summarization Using Geospatial Mosaics of Aerial Imagery. , 2015, , .		15

#	ARTICLE	IF	CITATIONS
19	Semantic Depth Map Fusion for Moving Vehicle Detection in Aerial Video. , 2016, , .		15
20	Parallax-Tolerant Aerial Image Georegistration and Efficient Camera Pose Refinement Without Piecewise Homographies. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4618-4637.	6.3	14
21	Multi-class regularization parameter learning for graph cut image segmentation. , 2013, , .		12
22	Evaluation of level set-based histology image segmentation using geometric region criteria. , 2009, , .		11
23	Visualization of Automated and Manual Trajectories in Wide-Area Motion Imagery. , 2011, , .		11
24	Predictive analytics for fog computing using machine learning and GENI. , 2018, , .		11
25	Spatial pyramid context-aware moving vehicle detection and tracking in urban aerial imagery. , 2017, , .		10
26	Video haze removal and poisson blending based mini-mosaics for wide area motion imagery. , 2016, , .		9
27	Complex Non-sinus-associated Pachymeningeal Lymphatic Structures: Interrelationship With Blood Microvasculature. Frontiers in Physiology, 2019, 10, 1364.	2.8	9
28	Robust mosaicking of maize fields from aerial imagery. Applications in Plant Sciences, 2020, 8, e11387.	2.1	9
29	Adaptive Median Binary Patterns for Texture Classification. , 2014, , .		8
30	A segmentation-based multi-scale framework for the classification of epithelial and stromal tissues in H&E images. , 2015, , .		8
31	Performance Evaluation of Feature Descriptors for Aerial Imagery Mosaicking. , 2018, , .		8
32	Stabilization of Airborne Video Using Sensor Exterior Orientation with Analytical Homography Modeling. , 2020, , 579-595.		8
33	DMNet: Dual-Stream Marker Guided Deep Network for Dense Cell Segmentation and Lineage Tracking. , 2021, 2021, 3354-3363.		8
34	CS-LoFT: Color and scale adaptive tracking using max-pooling with bhattacharyya distance. , 2016, , .		7
35	Sensitivity of Cross-Trained Deep CNNs for Retinal Vessel Extraction. , 2018, 2018, 2736-2739.		7
36	Dual Channel Colocalization for Cell Cycle Analysis Using 3D Confocal Microscopy. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
37	Confocal vessel structure segmentation with optimized feature bank and random forests. , 2016, 2016, .		6
38	Robust Multi-object Tracking for Wide Area Motion Imagery. , 2018, , .		6
39	Defective Neuronal Positioning Correlates With Aberrant Motor Circuit Function in Zebrafish. Frontiers in Neural Circuits, 2021, 15, 690475.	2.8	6
40	Interactive Image Segmentation Using Elastic Interpolation. , 2015, , .		5
41	Performance Evaluations for Super-Resolution Mosaicing on UAS Surveillance Videos. International Journal of Advanced Robotic Systems, 2013, 10, 249.	2.1	4
42	User driven sparse point-based image segmentation. , 2016, , .		4
43	Stream implementation of the flux tensor motion flow algorithm using GStreamer and CUDA. , 2016, , .		4
44	Vehicle Tracking in Wide Area Motion Imagery using KC- LoFT Multi-Feature Discriminative Modeling. , 2017, , .		4
45	Texture Classification using Multiple Local Descriptors. , 2017, , .		4
46	GLSNet: Global and Local Streams Network for 3D Point Cloud Classification. , 2019, , .		4
47	Multi-focus Image Fusion for Confocal Microscopy Using U-Net Regression Map. , 2021, 2020, 4317-4323.		4
48	CorNet: Unsupervised Deep Homography Estimation for Agricultural Aerial Imagery. Lecture Notes in Computer Science, 2020, , 400-417.	1.3	4
49	Assisted ground truth generation using interactive segmentation on a visualization and annotation tool. , 2016, , .		3
50	Evaluation of feature matching in aerial imagery for structure-from motion and bundle adjustment. , 2018, , .		3
51	LARNet-STC: Spatio-temporal orthogonal region selection network for laryngeal closure detection in endoscopy videos. Computers in Biology and Medicine, 2022, 144, 105339.	7.0	3
52	Extending U-Net Network for Improved Nuclei Instance Segmentation Accuracy in Histopathology Images. , 2021, 2021, .		3
53	Deep Learning-Based Cell Detection and Extraction in Thin Blood Smears for Malaria Diagnosis. , 2021, , .		3
54	Patch-Based Semantic Segmentation for Detecting Arterioles and Venules in Epifluorescence Imagery. , 2018, 2018, .		2

#	ARTICLE	IF	CITATIONS
55	Structure from Motion and Mosaicking for High-Throughput Field-Scale Phenotyping. Concepts and Strategies in Plant Sciences, 2021, , 55-69.	0.5	2
56	Ensemble of Deep Learning Cascades for Segmentation of Blood Vessels in Confocal Microscopy Images. , 2021, 2021, .		2
57	Multi-Scale Spatially Weighted Local Histograms in O(1). , 2017, , .		1
58	A Method for Online Interpolation of Packet-Loss Blocks in Streaming Video. , 2019, , .		1
59	Performance Evaluation of Semantic Video Compression using Multi-cue Object Detection. , 2019, , .		1
60	Short-Term Video Stabilization Using Ground Plane Segmentation for Low Altitude UAV Object Tracking (Conference Presentation). , 2020, , .		1
61	Camera Auto-calibration for Planar Aerial Imagery, Supported by Camera Metadata. , 2017, , .		0
62	Rtip: A Fully Automated Root Tip Tracker For Measuring Plant Growth With Intermittent Perturbations. , 2020, 2020, 2516-2520.		0
63	Vascular Network Imaging on Whole-mount Mouse Dura Mater with Cranial Bone. FASEB Journal, 2021, 35, .	0.5	0
64	Fluid and protein exchange in microvascular networks: Importance of modelling heterogeneity in geometrical and biophysical properties. Journal of Physiology, 2021, 599, 4597-4624.	2.9	0