

Kannappan Palaniappan

List of Publications by Year in descending order

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64
papers

1,076
citations

1040056

9
h-index

996975

15
g-index

66
all docs

66
docs citations

66
times ranked

918
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Multi-focus Image Fusion for Confocal Microscopy Using U-Net Regression Map. , 2021, 2020, 4317-4323.		4
4	Structure from Motion and Mosaicking for High-Throughput Field-Scale Phenotyping. Concepts and Strategies in Plant Sciences, 2021, , 55-69.	0.5	2
5	Vascular Network Imaging on Whole Mount Mouse Dura Mater with Cranial Bone. FASEB Journal, 2021, 35, .	0.5	0
6	Defective Neuronal Positioning Correlates With Aberrant Motor Circuit Function in Zebrafish. Frontiers in Neural Circuits, 2021, 15, 690475.	2.8	6
7	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
8	Predicting carbon nanotube forest attributes and mechanical properties using simulated images and deep learning. Npj Computational Materials, 2021, 7, .	8.7	19
9	DMNet: Dual-Stream Marker Guided Deep Network for Dense Cell Segmentation and Lineage Tracking. , 2021, 2021, 3354-3363.		8
10	Extending U-Net Network for Improved Nuclei Instance Segmentation Accuracy in Histopathology Images. , 2021, 2021, .		3
11	Deep Learning-Based Cell Detection and Extraction in Thin Blood Smears for Malaria Diagnosis. , 2021, , .		3
12	Ensemble of Deep Learning Cascades for Segmentation of Blood Vessels in Confocal Microscopy Images. , 2021, 2021, .		2
13	Robust mosaicking of maize fields from aerial imagery. Applications in Plant Sciences, 2020, 8, e11387.	2.1	9
14	Malaria Screener: a smartphone application for automated malaria screening. BMC Infectious Diseases, 2020, 20, 825.	2.9	28
15	Rtip: A Fully Automated Root Tip Tracker For Measuring Plant Growth With Intermittent Perturbations. , 2020, 2020, 2516-2520.		0
16	Stabilization of Airborne Video Using Sensor Exterior Orientation with Analytical Homography Modeling. , 2020, , 579-595.		8
17	Short-Term Video Stabilization Using Ground Plane Segmentation for Low Altitude UAV Object Tracking (Conference Presentation). , 2020, , .		1
18	CorNet: Unsupervised Deep Homography Estimation for Agricultural Aerial Imagery. Lecture Notes in Computer Science, 2020, , 400-417.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Facial expression recognition for monitoring neurological disorders based on convolutional neural network. Multimedia Tools and Applications, 2019, 78, 31581-31603.	3.9	56
20	Complex Non-sinus-associated Pachymeningeal Lymphatic Structures: Interrelationship With Blood Microvasculature. Frontiers in Physiology, 2019, 10, 1364.	2.8	9
21	A Method for Online Interpolation of Packet-Loss Blocks in Streaming Video. , 2019, , .		1
22	GLSNet: Global and Local Streams Network for 3D Point Cloud Classification. , 2019, , .		4
23	Performance Evaluation of Semantic Video Compression using Multi-cue Object Detection. , 2019, , .		1
24	Patch-Based Semantic Segmentation for Detecting Arterioles and Venules in Epifluorescence Imagery. , 2018, 2018, .		2
25	Robust Multi-object Tracking for Wide Area Motion Imagery. , 2018, , .		6
26	Performance Evaluation of Feature Descriptors for Aerial Imagery Mosaicking. , 2018, , .		8
27	Sensitivity of Cross-Trained Deep CNNs for Retinal Vessel Extraction. , 2018, 2018, 2736-2739.		7
28	Predictive analytics for fog computing using machine learning and GENI. , 2018, , .		11
29	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
30	Evaluation of feature matching in aerial imagery for structure-from motion and bundle adjustment. , 2018, , .		3
31	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
32	Spatial pyramid context-aware moving vehicle detection and tracking in urban aerial imagery. , 2017, , .		10
33	Multi-Scale Spatially Weighted Local Histograms in O(1). , 2017, , .		1
34	Vehicle Tracking in Wide Area Motion Imagery using KC- LoFT Multi-Feature Discriminative Modeling. , 2017, , .		4
35	Texture Classification using Multiple Local Descriptors. , 2017, , .		4
36	Camera Auto-calibration for Planar Aerial Imagery, Supported by Camera Metadata. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	HEp-2 cell classification and segmentation using motif texture patterns and spatial features with random forests. , 2016, , .		17
38	Moving object detection for vehicle tracking in Wide Area Motion Imagery using 4D filtering. , 2016, , .		27
39	Semantic Depth Map Fusion for Moving Vehicle Detection in Aerial Video. , 2016, , .		15
40	CNN-based image analysis for malaria diagnosis. , 2016, , .		151
41	User driven sparse point-based image segmentation. , 2016, , .		4
42	Stream implementation of the flux tensor motion flow algorithm using GStreamer and CUDA. , 2016, , .		4
43	CS-LoFT: Color and scale adaptive tracking using max-pooling with bhattacharyya distance. , 2016, , .		7
44	Video haze removal and poisson blending based mini-mosaics for wide area motion imagery. , 2016, , .		9
45	Assisted ground truth generation using interactive segmentation on a visualization and annotation tool. , 2016, , .		3
46	Confocal vessel structure segmentation with optimized feature bank and random forests. , 2016, 2016, .		6
47	Automatic Video Content Summarization Using Geospatial Mosaics of Aerial Imagery. , 2015, , .		15
48	Fast Structure from Motion for Sequential and Wide Area Motion Imagery. , 2015, , .		21
49	Interactive Image Segmentation Using Elastic Interpolation. , 2015, , .		5
50	A segmentation-based multi-scale framework for the classification of epithelial and stromal tissues in H&E images. , 2015, , .		8
51	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
52	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
53	Adaptive Median Binary Patterns for Texture Classification. , 2014, , .		8
54	Static and Moving Object Detection Using Flux Tensor with Split Gaussian Models. , 2014, , .		167

#	ARTICLE	IF	CITATIONS
55	Multi-class regularization parameter learning for graph cut image segmentation. , 2013, , .		12
56	Performance Evaluations for Super-Resolution Mosaicing on UAS Surveillance Videos. International Journal of Advanced Robotic Systems, 2013, 10, 249.	2.1	4
57	Robust Orientation and Appearance Adaptation for Wide-Area Large Format Video Object Tracking. , 2012, , .		16
58	Visualization of Automated and Manual Trajectories in Wide-Area Motion Imagery. , 2011, , .		11
59	Dual Channel Colocalization for Cell Cycle Analysis Using 3D Confocal Microscopy. , 2010, , .		6
60	Efficient feature extraction and likelihood fusion for vehicle tracking in low frame rate airborne video. , 2010, , .		88
61	Evaluation of level set-based histology image segmentation using geometric region criteria. , 2009, , .		11
62	Clustering initiated multiphase active contours and robust separation of nuclei groups for tissue segmentation. , 2008, , .		17
63	UAV-Video Registration Using Block-Based Features. , 2008, , .		23
64	GPU implementation of belief propagation using CUDA for cloud tracking and reconstruction. , 2008, , .		33