

Balasubramanian Raman

List of Publications by Year in descending order

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75
papers

1,265
citations

471509

17
h-index

454955

30
g-index

87
all docs

87
docs citations

87
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-stream spatio-temporal attention network for first-person action and interaction recognition. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 1137-1152.	4.9	3
2	C-CADZ: computational intelligence system for coronary artery disease detection using Z-Alizadeh Sani dataset. Applied Intelligence, 2022, 52, 2436-2464.	5.3	14
3	IBRDM: An Intelligent Framework for Brain Tumor Classification Using Radiomics- and DWT-based Fusion of MRI Sequences. ACM Transactions on Internet Technology, 2022, 22, 1-30.	4.4	5
4	Computational Intelligence Enabled Student Performance Estimation in the Age of COVID-19. SN Computer Science, 2022, 3, 41.	3.6	6
5	Privacy-Preserving Distribution and Access Control of Personalized Healthcare Data. IEEE Transactions on Industrial Informatics, 2022, 18, 5584-5591.	11.3	1
6	Classification of COVID-19 from chest x-ray images using deep features and correlation coefficient. Multimedia Tools and Applications, 2022, 81, 27631-27655.	3.9	22
7	Parkinson's disease diagnosis using neural networks: Survey and comprehensive evaluation. Information Processing and Management, 2022, 59, 102909.	8.6	17
8	A BERT based dual-channel explainable text emotion recognition system. Neural Networks, 2022, 150, 392-407.	5.9	34
9	Pansharpener Scheme Using Bi-dimensional Empirical Mode Decomposition and Neural Network. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-22.	4.3	1
10	Efficient Method and Architecture for Real-Time Video Defogging. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6536-6546.	8.0	20
11	Memory Efficient Architecture for Lifting-Based Discrete Wavelet Packet Transform. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1373-1377.	3.0	2
12	A pansharpener scheme using spectral graph wavelet transforms and convolutional neural networks. International Journal of Remote Sensing, 2021, 42, 2898-2919.	2.9	7
13	Discriminative Auto-Encoding for Classification and Representation Learning Problems. IEEE Signal Processing Letters, 2021, 28, 987-991.	3.6	3
14	GRGE: Detection of Gliomas Using Radiomics, GA Features and Extremely Randomized Trees. , 2021, , .		2
15	Towards accurate classification of skin cancer from dermatology images. IET Image Processing, 2021, 15, 1971-1986.	2.5	6
16	Novel Architecture for Lifting Discrete Wavelet Packet Transform With Arbitrary Tree Structure. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 1490-1494.	3.1	2
17	DMHZ: A Decision Support System Based on Machine Computational Design for Heart Disease Diagnosis Using Z-Alizadeh Sani Dataset. , 2021, , .		6
18	An Efficient Approach for Skin Lesion Segmentation Using Dermoscopic Images: A Deep Learning Approach. Communications in Computer and Information Science, 2021, , 430-439.	0.5	0

#	ARTICLE	IF	CITATIONS
19	A Hybrid Dehazing Method and its Hardware Implementation for Image Sensors. IEEE Sensors Journal, 2021, 21, 25931-25940.	4.7	4
20	AI-based diagnosis of COVID-19 patients using X-ray scans with stochastic ensemble of CNNs. Physical and Engineering Sciences in Medicine, 2021, 44, 1257-1271.	2.4	15
21	Evaluating fusion of RGB-D and inertial sensors for multimodal human action recognition. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 189-208.	4.9	51
22	Dynamic texture recognition using local tetra patternâ€”three orthogonal planes (LTrP-TOP). Visual Computer, 2020, 36, 579-592.	3.5	5
23	Deep motion templates and extreme learning machine for sign language recognition. Visual Computer, 2020, 36, 1233-1246.	3.5	40
24	Local gradient of gradient pattern: a robust image descriptor for the classification of brain strokes from computed tomography images. Pattern Analysis and Applications, 2020, 23, 797-817.	4.6	16
25	MIFH: A Machine Intelligence Framework for Heart Disease Diagnosis. IEEE Access, 2020, 8, 14659-14674.	4.2	81
26	Fast Griffin Lim based waveform generation strategy for text-to-speech synthesis. Multimedia Tools and Applications, 2020, 79, 30205-30233.	3.9	3
27	CGHF: A Computational Decision Support System for Glioma Classification Using Hybrid Radiomics- and Stationary Wavelet-Based Features. IEEE Access, 2020, 8, 79440-79458.	4.2	27
28	Variational Conditioning of Deep Recurrent Networks for Modeling Complex Motion Dynamics. IEEE Access, 2020, 8, 67822-67834.	4.2	6
29	Semantic Segmentation of Multispectral Images using Res-Seg-net Model. , 2020, , .		9
30	Novel Bit-Reordering Circuit for Continuous-Flow Parallel FFT Architectures. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3392-3396.	3.0	1
31	A Segment Level Approach to Speech Emotion Recognition Using Transfer Learning. Lecture Notes in Computer Science, 2020, , 435-448.	1.3	10
32	Skin Cancer Classification from Dermoscopic Images using Feature Extraction Methods. , 2020, , .		1
33	Vector ordering and regression learningâ€”based ranking for dynamic summarisation of user videos. IET Image Processing, 2020, 14, 3941-3956.	2.5	1
34	A Generative Adversarial Network Based Ensemble Technique for Automatic Evaluation of Machine Synthesized Speech. Lecture Notes in Computer Science, 2020, , 580-593.	1.3	18
35	DuTriNet: Dual-Stream Triplet Siamese Network for Self-Supervised Action Recognition by Modeling Temporal Correlations. , 2020, , .		2
36	Segmentation of ischemic stroke lesion from 3d mr images using random forest. Multimedia Tools and Applications, 2019, 78, 6559-6579.	3.9	12

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37	Dense motion analysis of German finger spellings. Multimedia Tools and Applications, 2019, 78, 9511-9536.	3.9	1
38	Privacy-Preserving Smart Surveillance Using Local Color Correction and Optimized ElGamal Cryptosystem over Cloud. , 2019, , .		0
39	Dual Deep Learning Model for Image Based Smoke Detection. Fire Technology, 2019, 55, 2419-2442.	3.0	33
40	A Modified LSTM Model for Continuous Sign Language Recognition Using Leap Motion. IEEE Sensors Journal, 2019, 19, 7056-7063.	4.7	130
41	A hybrid of deep learning and hand-crafted features based approach for snow cover mapping. International Journal of Remote Sensing, 2019, 40, 759-773.	2.9	37
42	CryptoCT: towards privacy preserving color transfer and storage over cloud. Multimedia Tools and Applications, 2018, 77, 24223-24245.	3.9	6
43	Cloud based image color transfer and storage in encrypted domain. Multimedia Tools and Applications, 2018, 77, 21509-21537.	3.9	5
44	A (n, n) threshold non-expansible XOR based visual cryptography with unique meaningful shares. Signal Processing, 2018, 142, 301-319.	3.7	25
45	Privacy Preserving Image Scaling Using 2D Bicubic Interpolation Over the Cloud. , 2018, , .		5
46	SecMed: A Secure Approach for Proving Rightful Ownership of Medical Images in Encrypted Domain over Cloud. , 2018, , .		3
47	A Hybrid CNN+Random Forest Approach to Delineate Debris Covered Glaciers Using Deep Features. Journal of the Indian Society of Remote Sensing, 2018, 46, 981-989.	2.4	28
48	Local neighborhood difference pattern: A new feature descriptor for natural and texture image retrieval. Multimedia Tools and Applications, 2018, 77, 11843-11866.	3.9	99
49	An image copyright protection system using chaotic maps. Multimedia Tools and Applications, 2017, 76, 3121-3138.	3.9	6
50	Prediction of advertisement preference by fusing EEG response and sentiment analysis. Neural Networks, 2017, 92, 77-88.	5.9	72
51	Deep Belief Network For Smoke Detection. Fire Technology, 2017, 53, 1943-1960.	3.0	19
52	A robust object detector: Application to detection of visual knives. , 2017, , .		23
53	Anomaly based intrusion detection using filter based feature selection on KDD-CUP 99. , 2017, , .		26
54	Dynamic texture using deep learning. , 2017, , .		4

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55	Color me, store me, know me not: Supporting image color transfer and storage in encrypted domain over cloud. , 2017, , .		4
56	Automatic classification of leukocytes using morphological features and Naïve Bayes classifier. , 2016, , .		37
57	An automatic personalized photo recommender system based on learning user preferences. , 2016, , .		0
58	An efficient application of fusion approach for hot spot detection with MODIS and PALSAR-1 data. Geocarto International, 2016, 31, 715-738.	3.5	5
59	Potential application of Kanadeâ€“Lucasâ€“Tomasi tracker on satellite images for automatic change detection. Journal of Applied Remote Sensing, 2016, 10, 026018.	1.3	5
60	A fractional order variational model for tracking the motion of objects in the applications of video surveillance. , 2016, , .		2
61	An image copyright protection scheme by encrypting secret data with the host image. Multimedia Tools and Applications, 2016, 75, 1027-1042.	3.9	16
62	A novel colour- and texture-based image retrieval technique using multi-resolution local extrema peak valley pattern and RGB colour histogram. Pattern Analysis and Applications, 2016, 19, 1159-1179.	4.6	28
63	Visible watermarking based on importance and just noticeable distortion of image regions. Multimedia Tools and Applications, 2016, 75, 7605-7629.	3.9	16
64	Fusion of submanifold and local texture features for palmprint authentication. , 2015, , .		0
65	Feature extraction and identification of Indian currency notes. , 2015, , .		12
66	An approach to monitor land cover changes with time series MODIS data over Hot spot region. , 2015, , .		1
67	Image watermarking in real oriented wavelet transform domain. Multimedia Tools and Applications, 2015, 74, 10883-10921.	3.9	16
68	Blind reliable invisible watermarking method in wavelet domain for face image watermark. Multimedia Tools and Applications, 2015, 74, 6897-6935.	3.9	24
69	Chaos Based Joint Compression and Encryption Framework for End-to-End Communication Systems. Advances in Multimedia, 2014, 2014, 1-10.	0.4	13
70	Multi-resolution Local extrema patterns using discrete wavelet transform. , 2014, , .		4
71	Dual tree fractional quaternion wavelet transform for disparity estimation. ISA Transactions, 2014, 53, 547-559.	5.7	9
72	An approach to monitor river catchment with PAL SAR satellite data. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
73	A variational approach for optical flow estimation in infra-red or thermal images. , 2013, , .		6
74	Partice Swarm Optimization based fusion of MODIS and PALSAR images for hotspot detection. , 2013, , .		4
75	CBSN: Comparative measures of normalization techniques for brain tumor segmentation using SRCNet. Multimedia Tools and Applications, 0, , 1.	3.9	0