# Balasubramanian Raman

List of Publications by Year
in descending order

| 75 papers | 1,265 citations | 471509<br>17 h-index | 454955<br>30 g-index |
|---|---|---|---|
| 87 all docs | 87 docs citations | 87 times ranked | 1154 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | A Modified LSTM Model for Continuous Sign Language Recognition Using Leap Motion. IEEE Sensors Journal, 2019, 19, 7056-7063. | 4.7 | 130 |
| 2 | 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 |
| 3 | MIFH: A Machine Intelligence Framework for Heart Disease Diagnosis. IEEE Access, 2020, 8, 14659-14674. | 4.2 | 81 |
| 4 | Prediction of advertisement preference by fusing EEG response and sentiment analysis. Neural Networks, 2017, 92, 77-88. | 5.9 | 72 |
| 5 | 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 |
| 6 | Deep motion templates and extreme learning machine for sign language recognition. Visual Computer, 2020, 36, 1233-1246. | 3.5 | 40 |
| 7 | Automatic classification of leukocytes using morphological features and NaÃ¯ve Bayes classifier. , 2016, , . | | 37 |
| 8 | 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 |
| 9 | A BERT based dual-channel explainable text emotion recognition system. Neural Networks, 2022, 150, 392-407. | 5.9 | 34 |
| 10 | Dual Deep Learning Model for Image Based Smoke Detection. Fire Technology, 2019, 55, 2419-2442. | 3.0 | 33 |
| 11 | 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 |
| 12 | A Hybrid CNNÂ+ÂRandom 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 |
| 13 | 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 |
| 14 | Anomaly based intrusion detection using filter based feature selection on KDD-CUP 99. , 2017, , . | | 26 |
| 15 | A (n, n) threshold non-expansible XOR based visual cryptography with unique meaningful shares. Signal Processing, 2018, 142, 301-319. | 3.7 | 25 |
| 16 | Blind reliable invisible watermarking method in wavelet domain for face image watermark. Multimedia Tools and Applications, 2015, 74, 6897-6935. | 3.9 | 24 |
| 17 | A robust object detector: Application to detection of visual knives. , 2017, , . | | 23 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Efficient Method and Architecture for Real-Time Video Defogging. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6536-6546. | 8.0 | 20 |
| 20 | Deep Belief Network For Smoke Detection. Fire Technology, 2017, 53, 1943-1960. | 3.0 | 19 |
| 21 | 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 |
| 22 | Parkinson's disease diagnosis using neural networks: Survey and comprehensive evaluation. Information Processing and Management, 2022, 59, 102909. | 8.6 | 17 |
| 23 | Image watermarking in real oriented wavelet transform domain. Multimedia Tools and Applications, 2015, 74, 10883-10921. | 3.9 | 16 |
| 24 | An image copyright protection scheme by encrypting secret data with the host image. Multimedia Tools and Applications, 2016, 75, 1027-1042. | 3.9 | 16 |
| 25 | Visible watermarking based on importance and just noticeable distortion of image regions. Multimedia Tools and Applications, 2016, 75, 7605-7629. | 3.9 | 16 |
| 26 | 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 |
| 27 | 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 |
| 28 | C-CADZ: computational intelligence system for coronary artery disease detection using Z-Alizadeh Sani dataset. Applied Intelligence, 2022, 52, 2436-2464. | 5.3 | 14 |
| 29 | Chaos Based Joint Compression and Encryption Framework for End-to-End Communication Systems. Advances in Multimedia, 2014, 2014, 1-10. | 0.4 | 13 |
| 30 | Feature extraction and identification of Indian currency notes. , 2015, , . | | 12 |
| 31 | Segmentation of ischemic stroke lesion from 3d mr images using random forest. Multimedia Tools and Applications, 2019, 78, 6559-6579. | 3.9 | 12 |
| 32 | A Segment Level Approach to Speech Emotion Recognition Using Transfer Learning. Lecture Notes in Computer Science, 2020, , 435-448. | 1.3 | 10 |
| 33 | Dual tree fractional quaternion wavelet transform for disparity estimation. ISA Transactions, 2014, 53, 547-559. | 5.7 | 9 |
| 34 | Semantic Segmentation of Multispectral Images using Res-Seg-net Model. , 2020, , . | | 9 |
| 35 | A pansharpening scheme using spectral graph wavelet transforms and convolutional neural networks. International Journal of Remote Sensing, 2021, 42, 2898-2919. | 2.9 | 7 |
| 36 | A variational approach for optical flow estimation in infra-red or thermal images. , 2013, , . | | 6 |

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|---|---------|-----|-----------|
| 37 | An image copyright protection system using chaotic maps. Multimedia Tools and Applications, 2017, 76, 3121-3138. | 3.9 | 6 |
| 38 | CryptoCT: towards privacy preserving color transfer and storage over cloud. Multimedia Tools and Applications, 2018, 77, 24223-24245. | 3.9 | 6 |
| 39 | Variational Conditioning of Deep Recurrent Networks for Modeling Complex Motion Dynamics. IEEE Access, 2020, 8, 67822-67834. | 4.2 | 6 |
| 40 | Towards accurate classification of skin cancer from dermatology images. IET Image Processing, 2021, 15, 1971-1986. | 2.5 | 6 |
| 41 | DMHZ: A Decision Support System Based on Machine Computational Design for Heart Disease Diagnosis Using Z-Alizadeh Sani Dataset. , 2021, , . | | 6 |
| 42 | Computational Intelligence Enabled Student Performance Estimation in the Age of COVID-19. SN Computer Science, 2022, 3, 41. | 3.6 | 6 |
| 43 | 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 |
| 44 | 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 |
| 45 | Cloud based image color transfer and storage in encrypted domain. Multimedia Tools and Applications, 2018, 77, 21509-21537. | 3.9 | 5 |
| 46 | Privacy Preserving Image Scaling Using 2D Bicubic Interpolation Over the Cloud. , 2018, , . | | 5 |
| 47 | Dynamic texture recognition using local tetra patternâ€"three orthogonal planes (LTrP-TOP). Visual Computer, 2020, 36, 579-592. | 3.5 | 5 |
| 48 | 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 |
| 49 | Partice Swarm Optimization based fusion of MODIS and PALSAR images for hotspot detection. , 2013, , . | | 4 |
| 50 | Multi-resolution Local extrema patterns using discrete wavelet transform. , 2014, , . | | 4 |
| 51 | Dynamic texture using deep learning. , 2017, , . | | 4 |
| 52 | Color me, store me, know me not: Supporting image color transfer and storage in encrypted domain over cloud. , 2017, , . | | 4 |
| 53 | A Hybrid Dehazing Method and its Hardware Implementation for Image Sensors. IEEE Sensors Journal, 2021, 21, 25931-25940. | 4.7 | 4 |
| 54 | SecMed: A Secure Approach for Proving Rightful Ownership of Medical Images in Encrypted Domain over Cloud. , 2018, , . | | 3 |

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|---|---------|-----|-----------|
| 55 | Fast Griffin Lim based waveform generation strategy for text-to-speech synthesis. Multimedia Tools and Applications, 2020, 79, 30205-30233. | 3.9 | 3 |
| 56 | Discriminative Auto-Encoding for Classification and Representation Learning Problems. IEEE Signal Processing Letters, 2021, 28, 987-991. | 3.6 | 3 |
| 57 | 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 |
| 58 | An approach to monitor river catchment with PAL SAR satellite data. , 2014, , . |  | 2 |
| 59 | A fractional order variational model for tracking the motion of objects in the applications of video surveillance. , 2016, , . |  | 2 |
| 60 | 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 |
| 61 | GRGE: Detection of Gliomas Using Radiomics, GA Features and Extremely Randomized Trees. , 2021, , . |  | 2 |
| 62 | 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 |
| 63 | DuTriNet: Dual-Stream Triplet Siamese Network for Self-Supervised Action Recognition by Modeling Temporal Correlations. , 2020, , . |  | 2 |
| 64 | An approach to monitor land cover changes with time series MODIS data over Hot spot region. , 2015, , . |  | 1 |
| 65 | Dense motion analysis of German finger spellings. Multimedia Tools and Applications, 2019, 78, 9511-9536. | 3.9 | 1 |
| 66 | 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 |
| 67 | Skin Cancer Classification from Dermoscopic Images using Feature Extraction Methods. , 2020, , . |  | 1 |
| 68 | Vector ordering and regression learning–based ranking for dynamic summarisation of user videos. IET Image Processing, 2020, 14, 3941-3956. | 2.5 | 1 |
| 69 | Privacy-Preserving Distribution and Access Control of Personalized Healthcare Data. IEEE Transactions on Industrial Informatics, 2022, 18, 5584-5591. | 11.3 | 1 |
| 70 | Pansharpening 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 |
| 71 | Fusion of submanifold and local texture features for palmprint authentication. , 2015, , . |  | 0 |
| 72 | An automatic personalized photo recommender system based on learning user preferences. , 2016, , . |  | 0 |

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|---|---------|-----|-----------|
| 73 | Privacy-Preserving Smart Surveillance Using Local Color Correction and Optimized ElGamal Cryptosystem over Cloud. , 2019, , . | | 0 |
| 74 | CBSN: Comparative measures of normalization techniques for brain tumor segmentation using SRCNet. Multimedia Tools and Applications, 0, , 1. | 3.9 | 0 |
| 75 | 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 |