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LIST OF PUBLICATION

1. Rajinikanth, V., Raja, N. S. M., & Dey, N. (2020). *A Beginner's Guide to Multilevel Image Thresholding*. CRC Press.
2. Chaki, J., Dey, N., Rajinikanth, V., Ashour, A. S., & Shi, F. (2018, September). Recognition of Skin Diseases Using Curvelet Transforms and Law's Texture Energy Measures. In *International Workshop Soft Computing Applications* (pp. 51-61). Springer, Cham.
3. Khan, M. A., Kadry, S., Alhaisoni, M., Nam, Y., Zhang, Y., Rajinikanth, V., & Sarfraz, M. S. (2020). Computer-Aided Gastrointestinal Diseases Analysis From Wireless Capsule Endoscopy: A Framework of Best Features Selection. *IEEE Access*, *8*, 132850-132859.
4. Satapathy, S. C., Hemanth, D. J., Kadry, S., Manogaran, G., Hannon, N. M., & Rajinikanth, V. (2020). Segmentation and Evaluation of COVID-19 Lesion from CT scan Slices-A Study with Kapur/Otsu Function and Cuckoo Search Algorithm.
5. Dey, N., Rajinikanth, V., Lin, H., & Shi, F. A Study on the Bat Algorithm Technique to Evaluate the Skin Melanoma Images. In *Applications of Bat Algorithm and its Variants* (pp. 45-60). Springer, Singapore.
6. Dey, N., & Rajinikanth, V. Applications of Bat Algorithm and its Variants.
7. Rajinikanth, V., Dey, N., & Kavitha, S. Multi-thresholding with Kapur's Entropy—A Study Using Bat Algorithm with Different Search Operators. In *Applications of Bat Algorithm and its Variants* (pp. 61-78). Springer, Singapore.
8. Ahuja, S., Panigrahi, B. K., Dey, N., Rajinikanth, V., & Gandhi, T. K. (2020). Deep transfer learning-based automated detection of COVID-19 from lung CT scan slices.
9. Dey, N., Rajinikant, V., Fong, S. J., Kaiser, M. S., & Mahmud, M. (2020). Social-Group-Optimization Assisted Kapur's Entropy and Morphological Segmentation for Automated Detection of COVID-19 Infection from Computed Tomography Images.
10. Kadry, S., Rajinikanth, V., Rho, S., Raja, N. S. M., Rao, V. S., & Thanaraj, K. P. (2020). Development of a Machine-Learning System to Classify Lung CT Scan Images into Normal/COVID-19 Class. *arXiv preprint arXiv:2004.13122*.
11. Rajinikanth, V., Kadry, S., Thanaraj, K. P., Kamalanand, K., & Seo, S. (2020). Firefly-Algorithm Supported Scheme to Detect COVID-19 Lesion in Lung CT Scan Images using Shannon Entropy and Markov-Random-Field. *arXiv preprint arXiv:2004.09239*.
12. Rajinikanth, V., Dey, N., Raj, A. N. J., Hassanien, A. E., Santosh, K. C., & Raja, N. (2020). Harmony-search and otsu based system for coronavirus disease (COVID-19) detection using lung CT scan images. *arXiv preprint arXiv:2004.03431*.
13. Bakiya, A., Kamalanand, K., Rajinikanth, V., Nayak, R. S., & Kadry, S. (2020). Deep neural network assisted diagnosis of time-frequency transformed electromyograms. *Multimedia Tools and Applications*, *79*(15), 11051-11067.
14. Thanaraj, R. I. R., Anand, B., Rahul, J. A., & Rajinikanth, V. (2020). Appraisal of Breast Ultrasound Image Using Shannon's Thresholding and Level-Set Segmentation. In *Progress in Computing, Analytics and Networking* (pp. 621-630). Springer, Singapore.

15. Rose, J. A., Vinnarasi, S. F., & Rajinikanth, V. (2020). Assessment of Fundus Images for Retinal Abnormality Screening—A Study. In *Progress in Computing, Analytics and Networking* (pp. 303-312). Springer, Singapore.
16. Vinnarasi, S. F., Rose, J. A., & Rajinikanth, V. (2020). An Approach to Extract Low-Grade Tumor from Brain MRI Slice Using Soft-Computing Scheme. In *Progress in Computing, Analytics and Networking* (pp. 273-282). Springer, Singapore.
17. Sudeepa, K. B., Aithal, G., Rajinikanth, V., & Satapathy, S. C. (2020). Genetic Algorithm Based Key Sequence Generation for Cipher System. *Pattern Recognition Letters*.
18. Sukanya, S. A., Kamalanand, K., Thayumanavan, B., Emmanuel, C., & Rajnikanth, V. (2020). Time domain analysis on myoelectric activity of masseter muscles in resting and chewing conditions. *Network Modeling Analysis in Health Informatics and Bioinformatics*, *9*(1), 1-8.
19. Thanaraj, K. P., Parvathavarthini, B., Tanik, U. J., Rajinikanth, V., Kadry, S., & Kamalanand, K. (2020). Implementation of Deep Neural Networks to Classify EEG Signals using Gramian Angular Summation Field for Epilepsy Diagnosis. *arXiv preprint arXiv:2003.04534*.
20. Rajinikanth, V., Dey, N., Kavallieratou, E., & Lin, H. (2020). Firefly algorithm-based Kapur's thresholding and Hough transform to extract leukocyte section from hematological images. In *Applications of Firefly Algorithm and its Variants* (pp. 221-235). Springer, Singapore.
21. Alagumariappan, P., Krishnamurthy, K., Kandiah, S., Cyril, E., & Rajinikanth, V. (2020). Diagnosis of Type 2 Diabetes Using Electrogastrograms: Extraction and Genetic Algorithm–Based Selection of Informative Features. *JMIR Biomedical Engineering*, *5*(1), e20932.
22. Rajinikanth, V. (2020). Medical Image Examination using Traditional and Soft-computing Approaches. *Current Medical Imaging*, *16*(7), 775-775.
23. Rajinikanth, V., Joseph Raj, A. N., Thanaraj, K. P., & Naik, G. R. (2020). A Customized VGG19 Network with Concatenation of Deep and Handcrafted Features for Brain Tumor Detection. *Applied Sciences*, *10*(10), 3429.
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25. DEYa, N., SHIb, F., & RAJINIKANTH, V. (2020). Image Examination System to Detect Gastric Polyps from Endoscopy Images. *Information Technology and Intelligent Transportation Systems*, *323*, 107.
26. MAITI, A., SHEKHARGIRI, H., CHATTERJEE, B., RAJINIKANTH, V., SHId, F., & DEYa, N. (2020). Classification of Melanoma Through Fused Color Features and Deep Neural Networks. *Information Technology and Intelligent Transportation Systems*, *323*, 86.
27. Rajinikanth, V., Dey, N., Satapathy, S. C., & Kamalanand, K. (2020). Inspection of crop-weed image database using kapur's entropy and spider monkey optimization. In *Soft Computing for Problem Solving* (pp. 405-414). Springer, Singapore.
28. Bhandary, A., Prabhu, G. A., Rajinikanth, V., Thanaraj, K. P., Satapathy, S. C., Robbins, D. E., ... & Raja, N. S. M. (2020). Deep-learning framework to detect lung abnormality–A study with chest X-Ray and lung CT scan images. *Pattern Recognition Letters*, *129*, 271-278.
29. Rajinikanth, V., Lin, H., Panneerselvam, J., & Raja, N. S. M. (2020). Examination of retinal anatomical structures—A study with spider monkey optimization algorithm. In *Applied Nature-Inspired Computing: algorithms and Case Studies* (pp. 177-197). Springer, Singapore.
30. Pugalenthi, R., Rajakumar, M. P., Ramya, J., & Rajinikanth, V. (2019). Evaluation and classification of the brain tumor MRI using machine learning technique. *Journal of Control Engineering and Applied Informatics*, *21*(4), 12-21.
31. Lin, H., & Rajinikanth, V. (2019). Development of Softcomputing Tool to Evaluate Heart MRI Slices. *International Journal of Computer Theory and Engineering*, *11*(5).

32. Fernandes, S. L., Rajinikanth, V., & Kadry, S. (2019). A hybrid framework to evaluate breast abnormality using infrared thermal images. *IEEE Consumer Electronics Magazine*, *8*(5), 31-36.
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35. Dey, N., Rajinikanth, V., Shi, F., Tavares, J. M. R., Moraru, L., Karthik, K. A., ... & Emmanuel, C. (2019). Social-Group-Optimization based tumor evaluation tool for clinical brain MRI of Flair/diffusion-weighted modality. *Biocybernetics and Biomedical Engineering*, *39*(3), 843-856.
36. Lin, H., Chaitra, K. M., Prabhu, G. A., & Rajinikanth, V. (2019, March). Analyzing Dermoscopy Images using Soft-Computing Tools. In *2019 2nd International Conference on Signal Processing and Communication (ICSPC)* (pp. 388-392). IEEE.
37. Rajinikanth, V., Raja, N. S. M., & Arunmozhi, S. (2019, March). ABCD rule implementation for the skin melanoma assesment–a study. In *2019 IEEE International Conference on System, Computation, Automation and Networking (ICSCAN)* (pp. 1-4). IEEE.
38. Arunmozhi, S., Lin, H., & Rajinikanth, V. (2019, March). Examination of 2D Cardiac MRI using Softcomputing Assisted Scheme. In *2019 IEEE International Conference on System, Computation, Automation and Networking (ICSCAN)* (pp. 1-4). IEEE.
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41. Rajinikanth, V., Dey, N., Kumar, R., Panneerselvam, J., & Raja, N. S. M. (2019). Fetal head periphery extraction from ultrasound image using Jaya algorithm and Chan-Vese segmentation. *Procedia Computer Science*, *152*, 66-73.
42. Rajinikanth, V., Arunmozhi, S., Raja, N. S. M., Varthini, B. P., & Thanaraj, K. P. (2019). Examination of Plant/Weed Image Dataset Using a Hybrid Image Processing Tool. In *Applications of Image Processing and Soft Computing Systems in Agriculture* (pp. 159-183). IGI Global.
43. Rajinikanth, V., Thanaraj, K. P., Satapathy, S. C., Fernandes, S. L., & Dey, N. (2019). Shannon's entropy and watershed algorithm based technique to inspect ischemic stroke wound. In *Smart intelligent computing and applications* (pp. 23-31). Springer, Singapore.
44. Monisha, R., Mrinalini, R., Britto, M. N., Ramakrishnan, R., & Rajinikanth, V. (2019). Social group optimization and Shannon's function-based RGB image multi-level thresholding. In *Smart Intelligent Computing and Applications* (pp. 123-132). Springer, Singapore.
45. Manic, K. S., Al Naimi, I. S., Hasoon, F. N., & Rajinikanth, V. (2019). Jaya algorithm-assisted evaluation of tooth elements using digital bitewing radiography images. In *Computational Techniques for Dental Image Analysis* (pp. 107-128). IGI Global.
46. Wang, Y., Chen, Y., Yang, N., Zheng, L., Dey, N., Ashour, A. S., ... & Shi, F. (2019). Classification of mice hepatic granuloma microscopic images based on a deep convolutional neural network. *Applied Soft Computing*, *74*, 40-50.
47. Rajinikanth, V., Satapathy, S. C., Dey, N., Fernandes, S. L., & Manic, K. S. (2019). Skin melanoma assessment using Kapur's entropy and level set—A study with bat algorithm. In *Smart intelligent computing and applications* (pp. 193-202). Springer, Singapore.
48. Manic, K. S., Hasoon, F. N., Al Shibli, N., Satapathy, S. C., & Rajinikanth, V. (2019). An Approach to Examine Brain Tumor Based on Kapur's Entropy and Chan–Vese Algorithm. In *Third*