

REFERENCES

- [1] M. I. Razzak, M. Imran, and G. Xu, "Efficient Brain Tumor Segmentation with Multiscale Two-Pathway-Group Conventional Neural Networks," *IEEE J Biomed Health Inform*, vol. 23, no. 5, pp. 1911–1919, Sep. 2019, doi: 10.1109/JBHI.2018.2874033.
- [2] R. L. Siegel *et al.*, "Colorectal cancer statistics, 2017," *CA Cancer J Clin*, vol. 67, no. 3, pp. 177–193, May 2017, doi: 10.3322/CAAC.21395.
- [3] Y. Zhang, A. Li, C. Peng, and M. Wang, "Improve Glioblastoma Multiforme Prognosis Prediction by Using Feature Selection and Multiple Kernel Learning," *IEEE/ACM Trans Comput Biol Bioinform*, vol. 13, no. 5, pp. 825–835, Sep. 2016, doi: 10.1109/TCBB.2016.2551745.
- [4] P. Afshar, A. Mohammadi, and K. N. Plataniotis, "Brain Tumor Type Classification via Capsule Networks," *Proceedings - International Conference on Image Processing, ICIP*, pp. 3129–3133, Aug. 2018, doi: 10.1109/ICIP.2018.8451379.
- [5] W. Ayadi, W. Elhamzi, I. Charfi, and M. Atri, "Deep CNN for Brain Tumor Classification," *Neural Processing Letters* 2021 53:1, vol. 53, no. 1, pp. 671–700, Jan. 2021, doi: 10.1007/S11063-020-10398-2.
- [6] M. Sajjad, S. Khan, K. Muhammad, W. Wu, A. Ullah, and S. W. Baik, "Multi-grade brain tumor classification using deep CNN with extensive data augmentation," *J Comput Sci*, vol. 30, pp. 174–182, Jan. 2019, doi: 10.1016/J.JOCS.2018.12.003.
- [7] Y. Yang *et al.*, "Glioma grading on conventional MR images: A deep learning study with transfer learning," *Front Neurosci*, vol. 12, no. NOV, p. 804, Nov. 2018, doi: 10.3389/FNINS.2018.00804/BIBTEX.
- [8] M. Talo, U. B. Baloglu, Ö. Yıldırım, and U. Rajendra Acharya, "Application of deep transfer learning for automated brain abnormality classification using MR images," *Cogn Syst Res*, vol. 54, pp. 176–188, May 2019, doi: 10.1016/J.COOGSYS.2018.12.007.
- [9] T. Kaur, B. S. Saini, and S. Gupta, "Quantitative metric for MR brain tumour grade classification using sample space density measure of analytic intrinsic mode function representation," *IET Image Process*, vol. 11, no. 8, pp. 620–632, Aug. 2017, doi: 10.1049/IET-IPR.2016.1103.
- [10] M. Sajjad *et al.*, "Leukocytes Classification and Segmentation in Microscopic Blood Smear: A Resource-Aware Healthcare Service in Smart Cities," *IEEE Access*, vol. 5, pp. 3475–3489, 2017, doi: 10.1109/ACCESS.2016.2636218.
- [11] I. Mehmood *et al.*, "An efficient computerized decision support system for the analysis and 3D visualization of brain tumor," *Multimed Tools Appl*, vol. 78, no. 10, pp. 12723–12748, May 2019, doi: 10.1007/S11042-018-6027-0/TABLES/10.
- [12] K. L. C. Hsieh, R. J. Tsai, Y. C. Teng, and C. M. Lo, "Effect of a computer-aided diagnosis system on radiologists' performance in grading gliomas with MRI," *PLoS One*, vol. 12, no. 2, p. e0171342, Feb. 2017, doi: 10.1371/JOURNAL.PONE.0171342.
- [13] E. A. S. El-Dahshan, H. M. Mohsen, K. Revett, and A. B. M. Salem, "Computer-aided diagnosis of human brain tumor through MRI: A survey and a new algorithm," *Expert Syst Appl*, vol. 41, no. 11, pp. 5526–5545, Sep. 2014, doi: 10.1016/J.ESWA.2014.01.021.
- [14] Y. Qiu *et al.*, "A new approach to develop computer-aided diagnosis scheme of breast mass classification using deep learning technology," *J Xray Sci Technol*, vol. 25, no. 5, pp. 751–763, Jan. 2017, doi: 10.3233/XST-16226.
- [15] D. Jude Hemanth, J. Anitha, A. Naaji, O. Geman, D. E. Popescu, and L. Hoang Son, "A Modified Deep Convolutional Neural Network for Abnormal Brain Image Classification," *IEEE Access*, vol. 7, pp. 4275–4283, 2019, doi: 10.1109/ACCESS.2018.2885639.
- [16] G. Litjens *et al.*, "A survey on deep learning in medical image analysis," *Med Image Anal*, vol. 42, pp. 60–88, Dec. 2017, doi: 10.1016/J.MEDIA.2017.07.005.
- [17] D. Jude Hemanth, C. K. S. Vijila, A. I. Selvakumar, and J. Anitha, "Performance Improved Iteration-Free Artificial Neural Networks for Abnormal Magnetic Resonance Brain Image Classification," *Neurocomputing*, vol. 130, pp. 98–107, Apr. 2014, doi: 10.1016/J.NEUCOM.2011.12.066.
- [18] N. Abiwinanda, M. Hanif, S. T. Hesaputra, A. Handayani, and T. R. Mengko, "Brain tumor classification using convolutional neural network," *IFMBE Proc*, vol. 68, no. 1, pp. 183–189, 2019, doi: 10.1007/978-981-10-9035-6_33/FIGURES/9.
- [19] "Nature-Inspired Optimization Algorithms - Xin-She Yang - Google Books," [https://books.google.co.id/books?hl=en&lr=&id=La_YDwAAQBAJ&oi=fnd&pg=PP1&ots=OfYAYRs4P&sig=dko\\$50UUqq07AcUcF-JpOX4NBmA&redir_esc=y#v=onepage&q&f=false](https://books.google.co.id/books?hl=en&lr=&id=La_YDwAAQBAJ&oi=fnd&pg=PP1&ots=OfYAYRs4P&sig=dko$50UUqq07AcUcF-JpOX4NBmA&redir_esc=y#v=onepage&q&f=false) (accessed Nov. 09, 2022).
- [20] M. Mareli and B. Twala, "An adaptive Cuckoo search algorithm for optimisation," *Applied Computing and Informatics*, vol. 14, no. 2, pp. 107–115, Jul. 2018, doi: 10.1016/J.ACI.2017.09.001.
- [21] M. I. Solihin and M. F. Zanil, "Performance Comparison of Cuckoo Search and Differential Evolution Algorithm for Constrained Optimization," *IOP Conf Ser Mater Sci Eng*, vol. 160, no. 1, p. 012108, Nov. 2016, doi: 10.1088/1757-899X/160/1/012108.
- [22] M. A. Adnan and M. A. Razzaque, "A comparative study of Particle Swarm Optimization and Cuckoo Search techniques through problem-specific distance function," *2013 International Conference of Information and Communication Technology, ICOICT 2013*, pp. 88–92, 2013, doi: 10.1109/ICOICT.2013.6574619.
- [23] J. Cheng *et al.*, "Enhanced performance of brain tumor classification via tumor region augmentation and partition," *PLoS One*, vol. 10, no. 10, Oct. 2015, doi: 10.1371/journal.pone.0140381.
- [24] D. H. Hubel and T. N. Wiesel, "Receptive fields and functional architecture of monkey striate cortex," *J Physiol*, vol. 195, no. 1, pp. 215–243, Mar. 1968, doi: 10.1113/JPHYSIOL.1968.SP008455.
- [25] K. Fukushima, "Neocognitron: A self-organizing neural network model for a mechanism of pattern recognition unaffected by shift in position," *Biological Cybernetics* 1980 36:4, vol. 36, no. 4, pp. 193–202, Apr. 1980, doi: 10.1007/BF00344251.
- [26] R. Yamashita, M. Nishio, R. K. G. Do, and K. Togashi, "Convolutional neural networks: an overview and application in radiology," *Insights Imaging*, vol. 9, no. 4, pp. 611–629, Aug. 2018, doi: 10.1007/S13244-018-0639-9/FIGURES/15.