DAFTAR PUSTAKA

[1]   S. B. (K) Dr. Djoko Widodo, dr., S. . (K) Dr. Rini Andriani, dr., and S. B. (K) Irwan Barlian Immadoel Haq, dr., "Pedoman Nasional Pelayanan Kedokteran TUMOR OTAK," *Kementrian Kesehat. Republik Indones. Kom. Penanggulangan Kanker Nas.*, vol. 1, no., pp. 1–476, 2019.

[2]   S. Heranurweni, B. Destyningtias, and A. Kurniawan Nugroho, "Klasifikasi Pola Image Pada Pasien Tumor Otak Berbasis Jaringan Syaraf Tiruan (Studi Kasus Penanganan Kuratif Pasien Tumor Otak)," *Elektrika*, vol. 10, no. 2, p. 37, 2018, doi: 10.26623/elektrika.v10i2.1169.

[3]   M. H. Avizenna, I. Soesanti, and I. Ardiyanto, "Classification of Brain Magnetic Resonance Images Based on Statistical Texture," *Proc. - 2018 1st Int. Conf. Bioinformatics, Biotechnol. Biomed. Eng. BioMIC 2018*, vol. 1, pp. 1–5, 2019, doi: 10.1109/BIOMIC.2018.8610563.

[4]   A. Abubakar *et al.*, "Magnetic resonance imaging in radiotherapy treatment target volumes definition for brain tumours: a systematic review and meta-analysis," *J. Radiother. Pract.*, vol. 17, no. 3, pp. 337–346, Sep. 2018, doi: 10.1017/S1460396917000693.

[5]   H. A. N. Dany Candra, Indah Soesanti, "Convolutional Neural Network for Brain Tumor Detection using MRI," *Cogn. Syst. Res.*, 2019, doi: 10.1016/j.cogsys.2019.10.002.

[6]   H. Dong, G. Yang, F. Liu, Y. Mo, and Y. Guo, "Automatic brain tumor detection and segmentation using U-net based fully convolutional networks," *Commun. Comput. Inf. Sci.*, vol. 723, pp. 506–517, 2017, doi: 10.1007/978-3-319-60964-5_44.

[7]   K. Hu *et al.*, "Brain Tumor Segmentation Using Multi-Cascaded Convolutional Neural Networks and Conditional Random Field," *IEEE Access*, vol. 7, pp. 92615–92629, 2019, doi:

10.1109/ACCESS.2019.2927433.

[8]   M. Havaei *et al.*, "Brain tumor segmentation with Deep Neural Networks," *Med. Image Anal.*, vol. 35, pp. 18–31, 2017, doi: 10.1016/j.media.2016.05.004.

[9]   S. Somasundaram and R. Gobinath, "Current Trends on Deep Learning Models for Brain Tumor Segmentation and Detection - A Review," *Proc. Int. Conf. Mach. Learn. Big Data, Cloud Parallel Comput. Trends, Prespectives Prospect. Com. 2019*, pp. 217–221, 2019, doi: 10.1109/COMITCon.2019.8862209.

[10]   J. Zhang, X. Lv, H. Zhang, and B. Liu, "AResU-Net: Attention residual U-Net for brain tumor segmentation," *Symmetry (Basel).*, vol. 12, no. 5, pp. 1–15, 2020, doi: 10.3390/SYM12050721.

[11]   M. W. Nadeem *et al.*, "Brain tumor analysis empowered with deep learning: A review, taxonomy, and future challenges," *Brain Sci.*, vol. 10, no. 2, pp. 1–33, 2020, doi: 10.3390/brainsci10020118.

[12]   T. Yang and J. Song, "An automatic brain tumor image segmentation method based on the u-net," *2018 IEEE 4th Int. Conf. Comput. Commun. ICCC 2018*, pp. 1600–1604, 2018, doi: 10.1109/CompComm.2018.8780595.

[13]   O. Ronneberger, P. Fischer, and T. Brox, "U-net: Convolutional networks for biomedical image segmentation," *Lect. Notes Comput. Sci. (including Subser. Lect. Notes Artif. Intell. Lect. Notes Bioinformatics)*, vol. 9351, pp. 234–241, 2015, doi: 10.1007/978-3-319-24574-4_28.

[14]   E. Shelhamer, J. Long, and T. Darrell, "Fully Convolutional Networks for Semantic Segmentation," *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 39, no. 4, pp. 640–651, 2017, doi: 10.1109/TPAMI.2016.2572683.

[15]   R. Azad, M. Asadi-Aghbolaghi, M. Fathy, and S. Escalera, "Bi-directional ConvLSTM U-net with densley connected convolutions," *Proc. - 2019 Int. Conf. Comput. Vis. Work. ICCVW 2019*, pp. 406–415, 2019, doi:

10.1109/ICCVW.2019.00052.

[16] M. Z. A. And, M. H. And, C. Y. And, Tarek M. Taha and, and V. K. Asari, "Recurrent Residual Convolutional Neural Network based on U-Net (R2U-Net) for Medical Image Segmentation," *Lect. Notes Comput. Sci. (including Subser. Lect. Notes Artif. Intell. Lect. Notes Bioinformatics)*, vol. 12085 LNAI, pp. 207–219, 2020, doi: 10.1007/978-3-030-47436-2_16.

[17] G. Madhupriya, M. Guru Narayanan, S. Praveen, and B. Nivetha, "Brain tumor segmentation with deep learning technique," *Proc. Int. Conf. Trends Electron. Informatics, ICOEI 2019*, vol. 2019-April, no. Icoei, pp. 758–763, 2019, doi: 10.1109/icoei.2019.8862575.

[18] M. Malathi and P. Sinthia, "Brain tumour segmentation using convolutional neural network with tensor flow," *Asian Pacific J. Cancer Prev.*, vol. 20, no. 7, pp. 2095–2101, 2019, doi: 10.31557/APJCP.2019.20.7.2095.

[19] B. H. Menze *et al.*, "The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS)," *IEEE Trans. Med. Imaging*, vol. 34, no. 10, pp. 1993–2024, 2015, doi: 10.1109/TMI.2014.2377694.

[20] D. Putra, *Pengelolaan Citra Digital*, 1st ed. Yogyakarta: Andi, 2010.

[21] R. Pohle and K. D. Toennies, "Segmentation of medical images using adaptive region growing," *Med. Imaging 2001 Image Process.*, vol. 4322, pp. 1337–1346, 2001, doi: 10.1117/12.431013.

[22] L. C. Chen, G. Papandreou, I. Kokkinos, K. Murphy, and A. L. Yuille, "DeepLab: Semantic Image Segmentation with Deep Convolutional Nets, Atrous Convolution, and Fully Connected CRFs," *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 40, no. 4, pp. 834–848, 2018, doi: 10.1109/TPAMI.2017.2699184.

[23] V. Badrinarayanan, A. Kendall, and R. Cipolla, "SegNet: A Deep Convolutional Encoder-Decoder Architecture for Image Segmentation," *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 39, no. 12, pp. 2481–2495,

2017, doi: 10.1109/TPAMI.2016.2644615.

[24]   G. Lin, A. Milan, C. Shen, and I. Reid, "RefineNet: Multi-path refinement networks for high-resolution semantic segmentation," *Proc. - 30th IEEE Conf. Comput. Vis. Pattern Recognition, CVPR 2017*, vol. 2017-Janua, pp. 5168–5177, 2017, doi: 10.1109/CVPR.2017.549.

[25]   I. Njeh, H. Mzoughi, M. Ben Slima, A. Ben Hamida, C. Mhiri, and K. Ben Mahfoudh, "Deep Convolutional Encoder-Decoder algorithm for MRI brain reconstruction," *Med. Biol. Eng. Comput.*, pp. 85–106, 2020, doi: 10.1007/s11517-020-02285-8.

[26]   A. Milioto and C. Stachniss, "Bonnet: An open-source training and deployment framework for semantic segmentation in robotics using CNNs," *Proc. - IEEE Int. Conf. Robot. Autom.*, vol. 2019-May, no. February, pp. 7094–7100, 2019, doi: 10.1109/ICRA.2019.8793510.

[27]   M. Z. Alom *et al.*, "The History Began from AlexNet: A Comprehensive Survey on Deep Learning Approaches," 2018, [Online]. Available: http://arxiv.org/abs/1803.01164.

[28]   P. P. Shinde, "A Review of Machine Learning and Deep Learning Applications," *ICCUBEA*, 2018, doi: 10.1109/ICCUBEA.2018.8697857.

[29]   Y. Lecun, Y. Bengio, and G. Hinton, "Deep learning," *Nature*, vol. 521, no. 7553, pp. 436–444, 2015, doi: 10.1038/nature14539.

[30]   Suyanto, *Data Mining Untuk Klasifikasi Dan Klasterisasi Data*. Bandung: Informatika Bandung, 2019.

[31]   D. P. Kingma and J. L. Ba, "Adam: A method for stochastic optimization," *3rd Int. Conf. Learn. Represent. ICLR 2015 - Conf. Track Proc.*, pp. 1–15, 2015.

[32]   M. Liang and X. Hu, "Recurrent Convolutional Neural Network for Object Recognition," *IEEE Conf. Comput. Vis. Pattern Recognit.*, pp. 3367–3375, 2015, doi: 10.1109/CVPR.2015.7298958.

[33] E. Tiu, "Metrics to Evaluate your Semantic Segmentation Model," *Stanford University | Stanford ML Group*, 2019. https://towardsdatascience.com/metrics-to-evaluate-your-semantic-segmentation-model-6bcb99639aa2 (accessed Mar. 03, 2021).

[34] M. T. Rostami and A. A. Raie, "Deep learning network for fully automatic left ventricle segmentation," *Proc. - 2018 4th Iran. Conf. Signal Process. Intell. Syst. ICSPIS 2018*, pp. 141–144, 2018, doi: 10.1109/ICSPIS.2018.8700528.

[35] Q. Zuo, S. Chen, and Z. Wang, "R2AU-Net: Attention Recurrent Residual Convolutional Neural Network for Multimodal Medical Image Segmentation," *Secur. Commun. Networks*, vol. 2021, 2021, doi: 10.1155/2021/6625688.