

Covid-19 Detection System Using Machine Learning

Prof. Shailesh Bendale¹, Anshuli Kumari², Shubham Sable³, Palash Dongre⁴, Akash Maurya⁵

Head, Department of Computer Engineering, NBN Sinhgad Technical Institute Campus, Pune, India¹

Student, Department of Computer Engineering, NBN Sinhgad Technical Institute Campus, Pune, India^{2,3,4,5}

Abstract: *The coronavirus epidemic of 2019 is spreading over the earth (COVID- 19). The rearmost advancements in artificial intelligence (AI) technology have increased the capacity of imagery software and supported medical specialists in the transnational fight against COVID- 19. The rapid-fire responses to COVID- 19 in the medical imaging community are examined in this section (enhanced by AI). For illustration, AI- enabled image prisoner might play a big part in automating the check-up process and reshaping the workflow to reduce patient involvement and cover imaging technicians. The accurate delineation of infections in X-ray filmland, allowing AI to boost labour productivity and encourage quantification. In addition, radiologists use computer-supported platforms to do clinical assessments, similar as opinion, monitoring, and prognostic.*

Keywords: COVID-19, Deep Learning, Convolution Neural Network, Noisy Marker, Segmentation, Lung Infection, etc.

REFERENCES

- [1] N. Zhu, D. Zhang, W. Wang, X. Li, B. Yang, J. Song, X. Zhao, B. Huang, W. Shi, R. Lu, P. Niu, F. Zhan, X. Ma, D. Wan, W. Xu, G. Gao d an nel coavuvo atienwit nmoia in 0, N. Engl.J.Med.,vol. 382,pp. 727 – 733, 2020.
- [2] D. Benvenuto, M. Giovanetti, M. Salemi, M. Prosperi, C. De Flora, L. C. Junior Alcantara, S. Angeletti, and M. Ciccozzi, - nCoV A molecular evolutionary 4, 2020.
- [3] F. Shi, J. Wang, J. Shi, Z. Wu, Q. Wang, Z. Tang, K. He, Y. in Imaging Data Acquisition, Segmentation and opinion for COVID- 13, 2020.
- [4] L. Huang, R. Han, T. Ai, P. Yu, H. Kang, Q. Tao, andL. -19 Deep- 2, p. e200075, 2020. Coronavirus (2019- 2020).
- [5] L. Li, L. Qin, Z. Xu, Y. Yin, X. Wang, B. Kong, J. Bai, Y. Lu, Z. Fang, Q. Song, K. Gao, D. Liu, G. Wang, Q. Xu, X. Fang, distinguishes COVID- 19 from community acquired pneumonia
- [6] Y. Cao, Z. Xu, J. Feng, C. Jin, X. Han, H. Wu, and H. Shi, -19 using a deep literacy grounded quantitative CT channel Illustration of Radiol. Cardiothorac. Imaging, vol. 2, no. 2, p. e200082, 2020. learning with noisy markers exploring ways and remedies 17, 2020.
- [7] D. Shen, G. Wu, and H.- 221 248, 2017.
- [8] Z. Zhou, M. M. Rahman Siddiquee, N. Tajbakhsh, and J.- net armature for medical image 3 11, 2018.
- [9] S. Min, X. Chen, Z.-- sluice collective attention network forsemi-supervised o. 2017, pp. 4578 4585, 2019. 2019, pp. 4229 4238.