

{tag} International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

[Volume 179](#)

-
[Number 38](#)

Year of Publication: 2018

Authors:

Kanika Chuchra, Richa Vasuja, Ayesha Bhandralia

10.5120/ijca2018916863

{bibtex}2018916863.bib{/bibtex}

Abstract

Highly fatal Ebola virus disease has emerged in Africa and got declared as public health emergency by W.H.O. many humans got infected by the virus so mining of disease is done using WEKA tool to predict whether is died or not by analyzing various symptoms. Various classification algorithms have been used. Further to improve the accuracy rate fusion of algorithm is done using unsupervised filter in MATLAB.

References

1. Wang, Huan, et al. "A medical support treatment model based on data mining." Computer Science & Education (ICCSE), 2015 10th International Conference on.IEEE, 2015.
2. Thomas, J., and R. Theresa Princy. "Human heart disease prediction system using data mining techniques." Circuit, Power and Computing Technologies (ICCPCT), 2016 International Conference on.IEEE, 2016.
3. Von Korff, Modest, Bernard Deffarges, and Thomas Sander. "Data Mining in MEDLINE

for Disease-Disease Associations Via Second Order Co-Occurrence." Computational Intelligence, 2015 IEEE Symposium Series on.IEEE, 2015.

4. Sheng, Chang, et al. "Mining mutation chains in biological sequences." 2010 IEEE 26th International Conference on Data Engineering (ICDE 2010).IEEE, 2010.

5. Chen, Hongmei, et al. "A decision-theoretic rough set approach for dynamic data mining." IEEE Transactions on Fuzzy Systems 23.6 (2015): 1958-1970.

6. Jingxin Du, Jun Zhou et al. 'An Overview of Dynamic Data Mining' 2016 3rd International Conference on Informative and Cybernetics for Computational SocialSystems (ICSS)

7. Sharma, Sunaina, and VeenuMangat. "Relevance vector machine classification for big data on Ebola outbreak." Next Generation Computing Technologies (NGCT), 2015 1st International Conference on.IEEE, 2015.

8. Team, WHO Ebola Response. "Ebola virus disease in West Africa—the first 9 months of the epidemic and forward projections." N Engl J Med 2014.371 (2014): 1481-1495.

9. Leroy, Eric M., et al. "Fruit bats as reservoirs of Ebola virus." Nature438.7068 (2005): 575-576.

10. Team, WHO Ebola Response. "West African Ebola epidemic after one year—slowing but not yet under control." N Engl J Med 2015.372 (2015): 584-587.

11. Sullivan, Nancy J., et al. "Development of a preventive vaccine for Ebola virus infection in primates." Nature 408.6812 (2000): 605-609.

12. Simmons, Graham, et al. "DC-SIGN and DC-SIGNR bind ebola glycoproteins and enhance infection of macrophages and endothelial cells." Virology 305.1 (2003): 115-123.

13. Feldmann, Heinz, and Thomas W. Geisbert. "Ebola haemorrhagic fever." The Lancet 377.9768 (2011): 849-862.

14. Leroy, Eric M., et al. "Multiple Ebola virus transmission events and rapid decline of central African wildlife." Science 303.5656 (2004): 387-390.

15. Baize, Sylvain, et al. "Emergence of Zaire Ebola virus disease in Guinea." New England Journal of Medicine 371.15 (2014): 1418-1425.

16. Sullivan, Nancy J., et al. "Accelerated vaccination for Ebola virus haemorrhagic fever in non-human primates." Nature 424.6949 (2003): 681-684.

17. Gire, Stephen K., et al. "Genomic surveillance elucidates Ebola virus origin and transmission during the 2014 outbreak." science 345.6202 (2014): 1369-1372.

Index Terms

Computer Science

Algorithms

Keywords

Ebola virus, WEKA, big data, classification Algorithms, filter