Abstract

The Data Mining is extracting or mining knowledge from large volume of data. Classification technique is used in different application. In this paper proposes a new classifier utilizing MLP approach by grouping based on nearest neighbor i.e. improved MLP-NN. The MLP-NN approach can handle noisy data and reduce complexity. This technique has been applied for medical diagnosis. This paper analyzes the lung images (i.e. CT-scan images) for identifying and classifying them among the various lung diseases (i.e. bronchitis, emphysema, pleural effusion or normal) using 100 images data set and 80 images data set.

References

2. Delveen Luqman Abd AL-Nabi, Shereen Shukri Ahmed “Survey on Classification Algorithms for Data Mining:(Comparison and Evaluation)” Computer Engineering and Intelligent
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3. V.Vaithiyanathan, K. Rajeswari, Kapil Tajane, Rahul Pitale "comparison of different classification technique using different datasets" International Journal of Advances in Engineering & Technology, May 2013. ©IJAET.

4. Jiawei Han and Micheline Kamber, Data Mining: Concepts and Techniques, Elsevier 2006, ISBN1558609016.


14. XindongWu · Vipin Kumar · J. Ross Quinlan · Joydeep Ghosh · Qiang Yang · Hiroshi Motoda · Geoffrey J. McLachlan · Angus Ng · Bing Liu · Philip S. Yu · Zhi-Hua Zhou · Michael Steinbach · David J. Hand · Dan Steinberg "Top 10 algorithms in data mining" Springer-Verlag London Limited 2007, 4 December 2007.


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32– No.6, October 2011.


Index Terms

Computer Science
Biomedical

Keywords

Data Mining; Classification; Multilayer Perceptron.