

Constructing a Sorting Machine for Degenerative Cerebropathia

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Abstract—Dementia with Lewy bodies and Parkinson's Disease has the common cause: mutation of gene CYP2D6. Thus, it is hard to distinguish those two diseases. In order to classify them clearly, construction of sorting machine is required. Various algorithms including Apriori, Decision tree, Support Vector Machine, K-means and Neural Network was used in the construction of sorting machine. Two kinds of sorting machines were constructed: one classifying whether the patient is under Dementia with lewy bodies or Parkinson's Disease, the other classifying whether the gene is normal or mutation has undergone.

Keyword—Parkinson's Disease, Dementia with Lewy bodies, Classification Machine, Function Construction, Artificial Intelligence Algorithms



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