

## Abstract

Iridology is a science and practice that can express body state based on the analysis of iris structure. The changes or disturbances of disease on body network will be informed by neuron nerve fiber to brain. This energy wave information spread to eye by brain, recorded and fixed by pupil. Then, this recorded fixation become data trails which can be detected by disturbance/disease that is filed by body organ.

The research about iridology computerization which has done before used back propagation of imitation nerve network and kohonen. Learning Vector Quantization is a method for doing examine to layers competitive which watched. The layer competitive learns automatically to do classification to vector input that given. When vector input has near distance each other, it will be grouped in the same class.

In this research, the detection of kidney is designed by segmentation state, extraction texture variation and introduction to the LVQ imitation of nerve network. The input is patient's iris sample which shows state condition, normal, acute, sub acute, chronicle and degenerate.

The test does with program simulation use Matlab 7.1.0 Introduction to classification of vector point characteristic to every iris is got from sum of introduce point or sum of every class presentation. The best introduce presentation is 96%. From the result of the test with network and the best acuities of success level program to know the sheaf of iris image that tested is 100%. Time needed for introducing the kidney different to right eye area is 2,5443 seconds and to the left is 2,8388 seconds.

**Keyword: Iridology, acute, sub acute, normal, degenerate, chronic, LVQ**