A Hybrid-based Medical Decision Support System

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Abstract

This paper presents a hybrid model of genetic and back propagation algorithm for the development of a decision support system for kidney stone. The initialization and optimization of the weights connection of ANN for improved performance was done with genetic algorithm. Object oriented analysis and design methodology was used for the design, java programming language was used for the interfaces and database respectively. Experimental results show that the hybrid model classified at higher accuracy 98.84%. This implies that the hybrid system is good for clinical decision making.

References

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Index Terms

Computer Science  Artificial Intelligence

Keywords

Artificial Neural Network, Genetic Algorithm, Nephrolithiasis, Neuro-Genetic Model.