

SYMPTOM DISEASE MODEL IN CHILDREN USING FCM

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In this paper we study the symptom – disease model in children. The FCM is used to obtain the hidden pattern existing between symptom and disease in children, because FCM allows experts to represent factual and evaluative concepts in an inter active frame work. Experts can dissent or consent to the local causal structure and perhaps the global equilibrations. The FCM knowledge representation and inferencing structure reduces to simple vector matrix operations, favour integrated circuit implementations and allows extensions to neural statistical or dynamical system techniques. Yet an FCM equally encodes the experts knowledge or ignorance wisdom or prejudice. In this paper we take only eight symptoms of a child and using the doctors (who are taken in this paper as experts) opinion results are derived. We are justified in using FCM as the data under study is an unsupervised one. Further the study is free from any prejudice as all experts are given equal weightages. No personal bias is made as no presumptions are made on any data and combined FCM is used to give the final result.

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